CURRICULUM VITAE

Professor Dr. Velimir R. Radmilović, Scientific advisor

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Molecular Foundry, National Center for Electron Microscopy, Lawrence Berkeley National Laboratory, University of California, Berkeley, CA, 94720, USA
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Education

1985 Ph.D. Degree in Physical Metallurgy, University of Belgrade, Serbia

Expirience

2011 ***Scientific Advisor***, Nanotechnology and Functional Materials Center, Faculty of Technology and Metallurgy, University of Belgrade, Belgrade
2004-2011 ***Principal Investigator***, National Center for Electron Microscopy, Lawrence Berkeley National Laboratory**,** University of California, Berkeley
2001-2011 ***Staff Scientist***, National Center for Electron Microscopy, Lawrence Berkeley National Laboratory**,** University of California, Berkeley
2000-2001 ***Full Professor***, University of Belgrade, Department of Metallurgical Engineering
1998-2000 ***Staff Scientist***, National Center for Electron Microscopy, Lawrence Berkeley National Laboratory**,** University of California, Berkeley
1995-1998 ***Full Professor and Department Head,*** University of Belgrade, Department of Physical Metallurgy
1993-1994 ***Staff Scientist***, National Center for Electron Microscopy, Lawrence Berkeley Laboratory, University of California, Berkeley
1992 ***Visiting Research Professor***, University of Pittsburgh, Department of Materials Science and Engineering
1991-1993 ***Associate Professor***, University of Belgrade, Department of Physical Metallurgy
1987 ***Visiting Assistant Professor***, University of California, Berkeley, Department of Materials Science and Mineral Engineering
1986 ***Post-doctoral fellow***, University of California, Berkeley, Department of Materials Science and Mineral Engineering
1985-1990 ***Assistant Professor***, University of Belgrade, Department of Physical Metallurgy

Honors and Awords

- Academy of Engineering Sciences of Serbia, 2016, Honorary member
- European Microscopy Society Lecturer of the year, 2013.

- Serbian Academy of Sciences and Arts, 2012, Corresponding member.
- The Belgrade City Award for Natural and Technical Sciences, 2012.
- The 2011 EMS Outstanding Paper Award, granted by European Microscopy Society (EMS) for the best paper in the category "Materials Science" in 2011, entitled "Highly monodisperse core-shell particles created by solid-state reactions" published in *Nature Materials*.
- The 2011 EMS Prize for the best Microphotograph in Physical Sciences
- Outstanding Performance Award, Materials Science Division, Lawrence Berkeley National Laboratory, University of California, Berkeley, 2010.
- Academy of Engineering Sciences of Serbia, 2009, Forign member.
- The most successful scientist award given by the Ministry of Science and Education of Government of Serbia, 2002.
- Serbian Chemical Society diploma award as a recognation for the contribution to development of SCS, 1997.
- Fellowship, Summer School "Quantitative Microbeam Analysis", University of Dundee, 1992
- Several Best Poster Awards
- Fulbright Scholar, Fulbright Travel Fellowship, 1986/87
- University of California, Berkeley, Postdoctoral Fellowship, 1986
- Fellowship, Summer School for "Quantitative Electron Microscopy", University of Glasgow, Scotland, 1983
- Steel Mill Nikšić (Montenegro) Scholarship, 1968/69, 1969/70, 1970/71, and 1971/72, (granted to students with high scholastic record)

Grants

- Research Grant, Department of Energy, Lawrence Berkeley National Laboratory, University of California, Berkeley, 1999-2011.
- Ministry of Science and Technology, Serbian Government, Research Grant, 2001-2003
- University of Belgrade, Several Research Grants obtained from 1985 to 1999.
- University of Pittsburgh, Research Grant, 1992.
- Allied Signal Research Grants, 1988, 1989, 1990, 1991, 1993.

Professional Societies

- European Microscopy Society
- Serbian Microscopy Society (SMS), Member; Vice President and Executive Board Member (1995-2005), Belgrade, Serbia
- Europian Materials Research Society (E-MRS), Member
- Microscopy Society of America (MSA), Member, United States
- Materials Research Society of Serbia (MRS-Serbia), Vice President and Executive Board Member (2000-Present), Belgrade, Serbia
- TMS, Member, United States
- ASM International, Member, United States
- Materials Research Society (MRS), Member, United States
- Serbian Chemical Society, Member; President of Metallurgical Section (1992-1997), Belgrade, Serbia
- Society of Engineers of Serbia (DIT), Member, Belgrade, Serbia

Professional Memberships and Services

Reviewer for: Science, Micron, Journal of Microscopy, Ultramicroscopy, Acta Materialia, Scripta Materialia, Metallurgical and Materials Transaction, Philosophical Magazine, Materials Science and Engineering, Nanotechnology, Diamond and Related Materials, Journal of Materials Science, Materials Characterization, International journal of metals, Journal of Serbian Chemical Society, Journal of Metallurgy and Engineering, etc.; Reviewer for National Science Foudation, USA, Department of Energy SBIR-STTR Grant Applications, USA; Member of the Oak Ridge National Laboratory SHaRE external proposal review committee; ***Organization*** and teaching of several courses and workshops on transmission electron microscopy at the National Center for Electron Microscopy at LBNL, Berkeley. ***Editorial board member*** for the following journals: *International journal of metals, Journal of the Serbian chemical society, Metallurgy and materials engineering, Technique - New Materials.*

Scientific Boards, Advisory Committees, Organizing Committees and presiding symposia at international conferences and workshops:

- International Workshop on Electron Microscopy with High Temporal Resolution, Strasbourg, France, May 29-31, 2017; Advisory Committee Member.
- International Workshop on Materials, BKS2016, May 22-25, 2016; Bernkastel, Germany; Session chair.
- International Workshop on Advanced and *In-situ* Microscopies of Functional Nanomaterials and Devices (IAMNano 2016), November 7 – 9, 2016, Boardwalk, Convention Centre, Port Elizabeth, South Africa; Session chair. International Workshop on Advanced and *In-situ* Microscopies
- International October Conference, IOC2016, September 28 – October 1, 2016, Bor, Serbia; Scientific Board Member.
- From Solid State to Biophysics, From Basic to Life Sciences VIII, Dubrovnik2016, June 4 to 11, 2016, Cavtat; Plenary session chair and International Advisory Committee Member.
- EM2014, International Electron Microscopy Conference, Plenary session chair, Krakow, Poland; September 15-18, 2014.
- 2nd Dresden Nanoanalysis Symposium, July 1 - 3, 2014, Internationales Congress Center Dresden (ICC), Ostra-Ufer 2 01067 Dresden; organized by Fraunhofer IWS and Dresden Center for Nanoanalysis (DCN); Scientific Committee Member.
- International October Conference, IOC2013; 16-19 October 2013, Hotel "Jezero", Bor Lake, Bor, Serbia; Scientific Board Member.
- Multinational Microscopy Conference, MC2013; August 25-30, 2013, Regensburg, Germany; Plenary session chair,
- Advanced Materials and Nanoanalysis, June 25-26, 2012, Krakow, Poland; Plenary session chair,
- Electron microscopy workshop, April 19-20, 2011, University of Belgrade; Organizer and Plenary session chair,
- MS&T'11, Materials Science & Technology 2011 Conference, Columbus, Ohio, 2011.
- IMRC 2011, Cancun, Mexico, 2011; Plenary session chair,
- Solid State Phase Transformations Conference, Avignon, 2010; Plenary session chair,
- Molecular Foundry-National Center for Electron Microscopy, Joint Workshop, 2010; Organizer and Session Chair,

- YUCOMAT, Annual International Materials Research Conferences, 1996-2016; Invited plenary speaker and Plenary session chair,
- EM'08, International Microscopy Conference, Zakopane, Poland, 2008; Session Chair.
- European Congress on Electron Microscopy, Antwerp, 2004; Session Chair.
- Gareth Thomas Symposium at ICEM-15, South Africa, 2002; Session Chair.
- New Orleans, M&M 1994; ; Session Chair.
- International Congress on Metallurgy, Vrnjacka Banja, Serbia, 1987.
- International Congress on Metallurgy, Belgrade, Serbia, 1984.

Research Interests

Fundamental aspects of structural phase transformations in solids and solid-solid interfaces. Structure-property relationship in solids. Deformation behavior and fracture mechanisms in solids. Electron microscopy investigation of the structure and distribution of defects such as inclusions, grain boundaries, and dislocations. Characterization of the atomic structure of interfaces by conventional and high-resolution electron microscopy in tandem with computer image simulation. Structure-property relationship in thin films. Nanotubes and Nanowires. Catalysts. Graphene and carbon nanotube based nanocomposites and devices. Solar cells.

Current Research Activity

- Solid-state phase transformations and interfaces
- Core/Shell nanostructures (free standing and embedded in solids)
- Alloy design for automotive and aero-space application
- Metallic thin films for MEMS and NEMS applications
- Nonmetallic thin films and nanowires for MEMS and NEMS applications
- Pt-based nanoparticles – electro catalysts
- Graphene research
- Nanocomposites with polymer and ceramic matrices
- APS (Active Pixel Sensor) detectors for electron microscopy
- Mechanical behavior of structural materials
- Grain boundaries structure and mobility in gold bicrystals
- Thermoelectrics
- Solar cells

Teaching Experience

Graduate and undergraduate courses: Physical Metallurgy, Physics of Strength and Plasticity, Phase Transformations, Crystallography and Crystal Defects, X-Ray Diffraction, Electron Diffraction, Electron Microscopy, Mechanical Metallurgy, Heat Treatment.

Bibliography

732 bibliographic units:

- 218 papers in international peer review journals
- 19 papers in national journals

- 251 papers in conference proceedings and books of abstracts of international meetings (58 plenary or/and invited talks)
- 11 poster presentations at international meetings
- 63 in conference proceedings and books of abstracts of national meetings
- 21 industrial projects
- 25 industrial consulting engagements
- 109 invited lectures, department seminars, and colloquiums at universities, industry and research labs worldwide.
- 5 lecture notes, chapters in books, and invited papers
- 10 patents and patent applications

Citations and h-index:

Google scholar: **7705**/ *h-index* **42**; *i10-index* **100**.

Scopus: **6614**/ *h-index* **39**; without self-citations: **6447**/ *h-index* **38**.

Web of Science: **5340**/ *h-index* **34**; without self-citations: **5195**/ *h-index* **34**.

Velimir R. Radmilović – Publications

A. Paper published or submitted for publishing in peer review international journals

2017

1. V.V. Radmilović, M. Göbelt, C. Ophus, S. Christiansen, E. Spiecker, **V.R. Radmilović**, "Wetting induced welding in Ag/ZnO composite nanowires", *(In preparation)*,

2016

2. M.N. Krstajić - Pajić, S.I. Stevanović, V.V. Radmilović, A. Gavrilović-Wohlmuther, **V.R. Radmilović**, S.L. Gojković and V.M. Jovanović, "Shape Evolution of Carbon Supported Pt Nanoparticles: from synthesis to application", *Applied Catalysis B: Environmental,* 196 (2016) 174-184; DOI: 10.1016/j.apcatb. 2016.05.033; ISSN 09263373.

3. M.N. Krstajić - Pajić, S.I. Stevanović, V.V. Radmilović, J.R. Rogan, **V.R. Radmilović**, S.L. Gojković and V.M. Jovanović, "Pt/C Nanocatalysts for Metanol Electrooxidation Prepared by Water-In-Oil Microemulsion Method", *Journal of Solid State Electrochemistry*, (2016); ISSN: 1432-8488; DOI: 10.1007/s10008-016-3319-z; (*in press*); (*available online*).

4. V.V. Radmilović, C. Carraro, P.S. Uskoković, **V.R. Radmilović**, "Structure and Properties of Polymer Nanocomposite Films With Carbon Nanotubes and Graphene", *Polymer Composites,* (2016) *in press*; ISSN: 02728397; DOI: 10.1002/pc.24079. (*available online*).

5. N.R. Elezović, **V.R. Radmilović**, N.V. Krstajić, "Platinum nanocatalysts on metal oxide based supports for low temperature fuel cell applications", *RSC Advances*, 6 (2016) 6788/6801. DOI: 10.1039/c5ra22403a; ISSN: 20462069. (**Invited review paper**)

6. Irena Nikolić, Ljiljana Karanović, Ivona Janković - Častvan, Smilja Marković, Vuk V. Radmilović, Slavko Mentus, **Velimir R. Radmilović**, "Strength and durability of alkali-activated steel slag: the effect of the alkaline activator chemistry"**,** *Cement and Concrete Research*, ISSN: 0008-8846, *Submitted*.

7. V.V. Radmilović, C. Carraro, P.S. Uskoković, **V.R. Radmilović**, "A Simple Fabrication Route for Polymer Nanocomposite Films with Carbon Nanotubes and Graphene", *Polymer Composites*, (2016); (*accepted: available online*).

8. Irena Nikolić, Smilja Marković, Ivona Janković - Častvan, Vuk V. Radmilović, Ljiljana Karanović, **Velimir R. Radmilović**, "Modification of mechanical and thermal properties of fly ash based geopolymer by the incorporation of steel slag"*, Materials Letters*, 176 (2016) 301-305 ; ISSN: 0167-577X.

9. M.D. Obradović, Z.M. Stančić, U.Č. Lačnjevac, V.V. Radmilović, A. Gavrilović-Wohlmuther, **V.R. Radmilović**, S.Lj. Gojković, "Electrochemical oxidation of ethanol on palladium-nickel nanocatalyst in alkaline media", *Applied Catalysis B: Environmental*, In Press, Accepted Manuscript, 189 (2016) 110 -118. doi:10.1016/j.apcatb.2015.01.038; ISSN: 0926-3373.

10. Irena Nikolić, Ana Drinčić, Dijana Djurović, Ljiljana Karanović, Vuk V. Radmilović, **Velimir R. Radmilović**, "Kinetics of electric arc furnace slag leaching in alkaline solutions",

Construction and Building materials, 108 (2016) 1-9; ISSN: 0950-0618; doi:10.1016/j. conbuildmat.2016.01.038.

11. Vuk V. Radmilović, Josh Kacher, Evica R. Ivanović, Andrew M. Minor, and **Velimir R. Radmilović**, "High Resolution Microscopy and Orientation Imaging of Defects in Silver Dendrites", *Crystal Growth & Design*, 16 (2016) 467 - 474; Publisher: American Chemical Society; DOI: 10.1021/acs.cgd.5b01459. Print Edition ISSN: 1528-7483; Web Edition ISSN: 1528-7505.

2015

12. Fei Guo, Ning Li, Frank Fecher, Nicola Gasparini, Vuk V. Radmilović, **Velimir R. Radmilović**, Erdmann Spiecker, Karen Forberich and Christoph J. Brabec, "Solution Processed Triple-Junction Organic Photovoltaic Cells with an Integrated Series and Parallel Interconnection", *Nature Communications*, 6 (2015) 7730; DOI: 10.1038/ncomms8730; ISSN: 2041-1723.

13. U.Č. Lačnjevac, V.V. Radmilović, **V.R. Radmilović**, N.V. Krstajić, "RuO_x nanoparticles deposited on TiO_2 nanotube arrays by ion-exchange method as electrocatalysts for the hydrogen evolution reaction in acid solution", *Electrochimica Acta*, 168 (2015) 178 - 190; DOI:10.10*16/j.electacta.2015.0*4.012; DOI: 10.1016/j.electacta.2015.04.012; ISSN: 0013-4686.

14. M. Göbelt , R. Keding , S.W. Schmitt , B. Hoffmann, S. Jäckle, M. Latzel, V.V. Radmilović, **V.R. Radmilović**, E. Spiecker and S. Christiansen, "Encapsulation of Silver Nanowire Networks by Atomic Layer Deposition for Indium-Free Transparent Electrode Applications", *Nano Energy,* 16 (2015) 196 - 206; DOI: 10.1016/j.nanoen.2015.06.027; ISSN: 2211-2855;

15. C.H. Liebscher, **V.R. Radmilović**, U. Dahmen, N.Q. Vo, D.C. Dunand, M. Asta, G. Ghosh, "A hierarchical microstructure due to chemical ordering in the bcc lattice: Early stages of formation in a ferritic Fe-Al-Cr-Ni-Ti alloy", *Acta Materialia*, 92 (2015) 220 – 232; DOI: 10.1016/j.actamat.2015.03.043; ISSN: 13596454.

16. Fei Guo, Ning Li, Vuk V. Radmilović, **Velimir R. Radmilović**, Mathieu Turbiez, Erdmann Spiecker, Karen Forberich and Christoph J. Brabec, "Fully printed organic tandem solar cells using solution-processed silver nanowires and opaque silver as charge collecting electrodes", *Energy & Environmental Science*, 8 (2015) 1690 - 1697; DOI: 10.1039/C5EE00184F.; ISSN 1754-5692.

17. M.D. Obradović, U.Č. Lačnjevac, B.M. Babić, P. Ercius, **V.R. Radmilović**, N.V. Krstajić, S.Lj. Gojković, "$Ru_xTi_{1-x}O_2$ as the support for Pt nanoparticles: Electrocatalysis of methanol oxidation", *Applied CatalysisB: Environmental*, 170-171 (2015) 144 – 152; DOI: 10.1016/j.apcatb.2015.01.038; ISSN: 09263373.

18. N.R. Elezović, P. Ercius, J. Kovač, **V.R. Radmilović**, B.M. Babić, N.V. Krstajić, "Synthesis and characterization of Pt nanocatalyst on $Ru_{0.7}Ti_{0.3}O_2$ support as a cathode for fuel cells application", *Journal of Electroanalytical Chemistry*, 739 (2015) 164 – 171;; DOI: 10.1016/j.jelechem.2014.12.033; ISSN: 1572-6657.

19. N.R. Elezović, **V.R. Radmilović**, J. Kovač, B.M. Babić, L.M. Gajić-Krstajić, N.V. Krstajić, "Pt nanoparticles on tin oxide based support as a beneficial catalyst for oxygen reduction in

alkaline solutions", *RSC Advances*, 5 (2015) 15923 – 15929;; DOI: 10.1039/c4ra13391a; ISSN: 2046-2069.

20. Evica R. Ivanović, Nebojša D. Nikolić, **Velimir R. Radmilović**, "Randomly oriented twin domains in electrodeposited silver dendrites", *Journal of Serbian Chemical Society,* 80 (2015) 107 – 113; DOI: 10.2298/JSC140306045I; ISSN: 0352-5139.

2014

21. R.P. Sankaran, C. Ophus, B. Ozdol, **V.R. Radmilović**, A.M. Minor, and J.W. Morris, Jr., "HAADF Imaging of the Omega (ω) Phase in a Gum Metal-related Alloy", *Philosophical Magazine*, 94 (2014) 2900-2912; DOI: 10.1080/14786435.2014.937839; ISSN: 14786435.

22. S. Kiani, K.W.K. Leung, **V.R. Radmilović**, A. M. Minor, J.-M. Yang,D.H. Warner, and S. Kodambaka, "Dislocation Glide-Controlled Room-Temperature Plasticity in 6H-SiC Single Crystals", *Acta Materialia*, 80 (2014) 400-406; DOI: 10.1016/j.actamat.2014.07.066; ISSN: 13596454.

23. Irena Nikolić, Ljiljana Karanović, Ivona Janković-Častvan, Vuk V. Radmilović, Slavko Mentus, **Velimir R. Radmilović**, "Improved compressive strength of alkali activated slag upon heating", *Materials Letters*, 133 (2014) 251-254; ISSN: 0167-577X; DOI: 10.1016/j.matlet.2014.07.021.

24. I. Nikolić, I. Častvan-Jankovic, J. Krivokapić, D. Đurović, V.V. Radmilović, **V.R. Radmilović** "Geopolymerization of low grade bauxite", *Materiali in tehnologije* 48 (2014) 39-44; ISSN: 1580-2949. ISSN: 15802949.

25. Veljko R. Đokić, Aleksandar D. Marinković, Ovidiu Ersen, Petar S. Uskoković, Rada D. Petrović, **Velimir R. Radmilović**, Đordje T. Janaćković, "The dependence of the photocatalytic activity of TiO_2/carbon nanotubes nanocomposites on the modification of the carbon nanotubes", *Cermics International,* 40 (2014) 4009-4018. ISSN: 02728842; DOI: 10.1016/j.ceramint.2013.08.052.

2013

26. Mila N. Krstajić, Maja D. Obradović, Biljana M. Babić, **Velimir R. Radmilović**, Uroš Č. Lačnjevac, Nedeljko V. Krstajić and Snežana Lj. Gojković, "Electrochemical oxidation of methanol on Pt/$(Ru_xSn_{1-x})O_2$", *Journal of the Serbian Chemical Society, 78* (2013)1703–1716; UDC 547.261+66.094.3+546.92: 544.4+621.352; DOI: 10.2298/JSC130718091K; ISSN: 0352-5139.

27. Anna P. Goldstein, Sean C. Andrews, Robert F. Berger, **Velimir R. Radmilović**, Jeffrey B. Neaton, and Peidong Yang, "Zigzag Inversion Domain Boundaries in Indium Zinc Oxide-Based Nanowires: Structure and Formation", *ACS Nano, 7 (2013) 10747-10751*; ISSN: 19360851; DOI: 10.1021/nn403836d; .

28. I. Nikolić, R. Zejak, I. Janković-Častvan, Lj. Karanović, V.V. Radmilović, **V.R. Radmilović**, "Influence of alkali cation on the mechanical properties and durability of fly ash based

geopolymers", *Acta Chimica Slovenica*, 60 (2013) 636-643. ISSN: 13180207; PubMed ID: 24169718.

29. IrenaNikolić, Dijana Đurović, Dragoljub Blečić, Radomir Zejak, Ljiljana Karanović, Stefan Mitsche, **Velimir R. Radmilović**, "Geopolymerization of coal fly ash in the presence of electric arc furnace dust"**,** Minerals Engineering 49, 24-32 (2013), ISSN: 0892-6875.

30. V.R. Đokić, A.D. Marinković, O. Ersen, P.S. Uskoković, R.D. Petrović, **V.R. Radmilović**, and D.T. Janaćković, "The dependence of the photocatalytic activity of TiO_2/carbon nanotubes nanocomposites on the modification of the carbon nanotubes", *Ceramics International*, (2013), in press; ISSN: 02728842; DOI: 10.1016/j.ceramint.2013.08.052.

31. U.C. Lačnjevac, B.M. Jović, V.D. Jović, **V.R. Radmilović**, N.V. Krstajić, "Kinetics of the hydrogen evolution reaction on Ni-(Ebonex-supported Ru) composite coatings in alkaline solution", *International Journal of Hydrogen Energy*, 38 (2013) 10178-10190. ISSN: 03603199; DOI: 10.1016/j.ijhydene.2013.06.037.

32. N.R. Elezović, B.M. Babić, **V.R. Radmilović**, Lj.M. Vračar, N.V. Krstajić, "Novel Pt catalyst on ruthenium doped TiO_2 support for oxygen reduction reaction", *Applied Catalysis B: Environmental*, 140-141 (2013) 206-212; ISSN: 0926-3373; DOI: 10.1016/ j.apcatb.2013.04.012.

33. A. Gautam, C. Ophus, F. Lançon, **V.R. Radmilović** and U. Dahmen, "Atomic structure characterization of an incommensurate grain boundary", *Acta Materialia*, 61 (2013) 5078–5086. ISSN: 1359-6454; DOI: 10.1016/j.actamat.2013.04.028.

34. Irena Nikolić, Dijana Đurović, Radomir Zejak, Ljiljana Karanović, Milena Tadić, Dragoljub Blečić and **Velimir R. Radmilović**, "Compressive strength and hydrolytic stability of fly ash based geopolymers", *Journal of the Serbian Chemical Society*, 78 (2013) 851-863; DOI: 10.2298/JSC121024001N; ISSN: 0352-5139.

35. R. Zejak, I. Nikolić, D. Blečić, V.V. Radmilović, **V.R. Radmilović**, "Mechanical and microstructural properties of the fly-ash-based geopolymer paste and mortar", *Materiali in Tehnologije*, 47 (2013) 535-540. ISSN: 1580-2949.

36. Colin Ophus, Melissa K. Santala, Mark Asta, **Velimir R. Radmilović**, "Structure and phase transitions at the interface between _α-Al_2O_3 and Pt", *Journal of Physics: Condensed Matter*, 25 (2013) 232202. DOI:10.1088/0953-8984/25/23/232202; ISSN: 0953-8984 (Print); ISSN: 1361-648X (Online).

37. I. Nikolić, D. Crossed D. Signurović, D. Blečić, R. Zejak, Lj. Karanović, S. Mitsche, **V.R. Radmilović**, "Geopolymerization of coal fly ash in the presence of electric arc furnace dust", *Minerals Engineering*, 49 (2013) 24-32. DOI: 10.1016/j.mineng.2013.04.007; ISSN: 08926875.

38. Dušica B. Stojanović, Ljiljana Brajović, Aleksandar Orlović, Dragan Dramlić, **Velimir R. Radmilović**, Petar S. Uskoković, Radoslav Aleksić, "Transparent PMMA/silica nanocomposites containing silica nanoparticles coating under supercritical conditions", *Progress in Organic Coatings*, 76 (2013) 626-631; POC-D-11-00411R1; DOI: 10.1016/j.porgcoat.2012.12.002; ISSN: 0300-9440.

39. John P. Alper, Mun Sek Kim, Maxime Vincent, Ben Hsia, **Velimir R. Radmilović**, Carlo Carraro, Roya Maboudian, "Silicon carbide nanowires as highly robust electrodes for micro-supercapacitors", *Journal of Power Sources*, 230 (2013) 298-302: DOI: 10.1016/j.jpowsour.2012.12.085; ISSN: 03787753.

2012

40. D.S. Gianola, Z. Lee, C. Ophus, E.J. Luber, D. Mitlin, U. Dahmen, K.J. Hemker, **V.R. Radmilović**, "Tensile behavior of $Al_{1-x}Mo_x$ crystalline and amorphous thin films", *Acta Materialia*, 61 (2013) 1432-1443;.DOI 10.1016/j.actamat.2012.11.020; ISSN: 1359-6454.

41. C. H. Liebscher, **V.R. Radmilović**, U. Dahmen, M. Asta, G. Ghosh, "On the formation of hierarchically structured $L2_1$-Ni_2TiAl type precipitates in a ferritic alloy", *Journal of Materials Science*, 48 (2013) 2067-2075. DOI: 10.1007/s10853-012-6980-3; ISSN: 0022-2461.

42. V.R. Đokić, A.D. Marinković, M. Mitrić, P.S. Uskoković, R.D. Petrović, **V.R. Radmilović**, and D.T. Janaćković, Preparation of TiO_2 -carbon nanotubes photocatalysts: The influence of the method of oxidation of the carbon nanotubes on the photocatalytic activity of the nanocomposites; *Ceramics International*, 38 (2012) 6123-6129; ISSN: 02728842; DOI: 10.1016/j.ceramint.2012.04.060.

43. N.R. Elezović, B.M. Babić, P. Ercius, **V.R. Radmilović**, L.J. Vračar, and N.V. Krstajić, "Synthesis and characterization Pt nanocatalysts on tungsten based supports for oxygen reduction reaction", *Applied Catalysis B: Environmental,* 125 (2012) 390-397; ISSN: 09263373; DOI: 10.1016/j.apcatb.2012.06.008.

44. M.D. Obradović, B.M. Babić, **V.R. Radmilović**, N.V. Krstajić, S.Lj. Gojković, "Core-shell structured tungsten carbide as a Pt catalyst support and its activity for methanol electrooxidation", *International Journal of Hydrogen Energy*, (2012) 10671-10679, doi:10.1016/ j.ijhydene.2012.04.114.

45. N.R. Elezović, B.M. Babić, Lj. Gajić-Krstajić, P. Ercius, **V.R. Radmilović**, N.V. Krstajić, L.J. Vračar, "Pt supported on nano-tungsten carbide as a beneficial catalyst for the oxygen reduction reaction in alkaline solution", *Electrochimica Acta*, 69 (2012) 239-246. DOI: 10.1016/j.electacta.2012.02.105.

46. M.D. Obradović, J.R. Rogan, B.M. Babić, A.V. Tripković, A.R.S. Gautam, **V.R. Radmilović**, N.V. Krstajić, "The kinetics of the hydrogen oxidation reaction on WC/Pt catalyst with low content of Pt nano-particles", *Journal of Electroanalytical Chemistry*, 671 (2012) 24-32. DOI: 10.1016/j.jelechem.2012.01.026

47. M.D. Obradović, N.R. Elezović, J.R. Rogan, B.M. Babić, A.V. Tripković, A.R.S. Gautam, **V.R. Radmilović**, S.Lj. Gojković, "Formic acid oxidation on Pt-Au nanoparticles: Relation between the catalyst activity and the poisoning rate", *Journal of Power Sources*, 197 (2012) 72-79. ISSN: 03787753; DOI: 10.1016/j.jpowsour.2011.09.043.

2011

48. **V.R. Radmilović**, C. Ophus, E.A. Marquis, A. Tolley, M.D. Rossell, A. Gautam, M. Asta and U. Dahmen, "Highly monodisperse core-shell particles created by solid-state reactions", *Nature Materials*, 10 (2011) 710-715; doi:10.1038/nmat3077.

49. N.R. Elezović, B.M. Babić, **V.R. Radmilović**, L.J. Vračar, N.V. Krstajić, "Nb-TiO_2 supported platinum nanocatalyst for oxygen reduction reaction in alkaline solutions", *Electrochemica Acta*, 56 (2011) 9020 - 9026. ISSN: 00134686; DOI: 10.1016/j.electacta.2011.04.075.

50. **V.R. Radmilović**, "Advanced Imaging and Biomedical Applications of Nanomaterials", *Journal of the Serbian Society for Computational Mechanics,* 5 (2011) 57-61: ISSN: 1820-6530; UDC: (681.723.2; 66.017/.018:[57+61).

51. Marija Vukomanović, Tina Zavašnik-Bergant, Ines Bračko, Srečo Davor Škapin, Nenad Ignjatović, **Velimir R. Radmilović**, Dragan Uskoković, "Poly(d,l-lactide-*co*-glycolide) /hydroxyapatite core–shell nanospheres. Part 3: Properties of hydroxyapatite nano-rods and investigation of a distribution of the drug within the composite", *Colloids and Surfaces B: Biointerfaces*, 87 (2011) 226-235. DOI: 10.1016/j.colsurfb.2011.05.023; ISSN: 09277765.

52. N.R. Elezović, B.M. Babić, **V.R. Radmilović**, Lj. Gajić-Krstajić, N.V. Krstajić, L.J. Vračar, "A novel platinum-based nanocatalyst at a niobia-doped titania support for the hydrogen oxidation reaction", *J. Serb. Chem. Soc.*, 76 (2011) 1139-1152.

53. G.D. Vuković, M.D. Obradović, A.D. Marinković, J.R. Rogan, P.S. Uskoković, **V.R. Radmilović**, S.Lj. Gojković, "Ethylenediamine-modified multiwall carbon nanotubes as a Pt catalyst support", *Materials Chemistry and Physics*, 130 (2011) 657-664. DOI: 10.1016/j.matchemphys.2011.07.046

54. Ki-Joon Jeon, Zonghoon Lee, Elad Pollak, Luca Moreschini, Aaron Bostwick, Cheol-Min Park, Rueben Mendelsberg, **Velimir R. Radmilović**, Robert Kostecki, Thomas Richardson, Eli Rotenberg, "Fluorographane: a wide bandgap semiconductor with ultraviolet luminescence", *ACS Nano*, 5 (2011) 1042-1046. DOI: 10.1021/nn1025274.

55. J.M. Jaksić, **V.R. Radmilović**, N.V. Krstajić, C.M. Lačnjevac, and M.M. Jaksić, "Volcanic periodicity plots along transition series, hypo-hyper-d-d-interelectronic correlations and electrocatalysis for hydrogen electrode reactions", *Macedonian journal of chemistry and chemical engineering*, 30 (2011) 3-18.

56. J.T. McKewon, **V.R. Radmilović**, R. Gronsky, and A.M. Gleaser, "Silicide characterization at alumina-niobium interfaces", *Journal of Materials Science*, 46 (2011) 3969-3981. DOI: 10.1007/s10853-011-5324-z; ISSN: 00222461.

57. B. Jokić, M. Mitrić, **V.R. Radmilović**, S. Drmanić, R. Petrović, and D. Janaćković, "Synthesis and characterization of monetite and hydroxyapatite whiskers obtained by a hydrothermal method", *Ceramics International*, 37 (2011) 167-173. DOI: 10.1016/j.ceramint.2010.08.032; ISSN: 02728842.

58. M.K. Santala, **V.R. Radmilović**, R. Giulian, M. Ridgway, A. Glaeser, R. Gronsky, "The orientation and morphology of Pt precipitates within sapphire", *Acta Materialia*, 59 (2011) 4761-4774. DOI: 10.1016/j.actamat.2011.04.012; ISSN: 1359-6454.

59. Sean C. Andrews, Melissa A. Fardy, Michael C. Moore, Shaul Aloni, Minjuan Zhang, **Velimir R. Radmilović** and Peidong Yang, "Atomic-level control of the thermoelectric properties in polytypoid nanowires", *Chemical Science*, 2 (2011) 706-714. DOI: 10.1039/c0sc00537a.

2010

60. N.R. Elezović, B.M. Babić, Lj. Gajić-Krstajić, **V.R. Radmilović**, N.V. Krstajić, L.J. Vračar, "Synthesis, characterization and electrocatalytical behavior of Nb–TiO2/Pt nanocatalyst for oxygen reduction reaction", *Journal of Power Sources,* 195 (2010) 3961–3968.

61. S. Gojković, B.M. Babić, **V.R. Radmilović**, N.V. Krstajić, "Nb-doped TiO_2 as a support of Pt and Pt-Ru anode catalyst for PEMFCs", *Journal of Electroanalytical Chemistry*, 639 (2010) 161-166.

62. U. Pirnat, M. Valant, and **V.R. Radmilović**, "Formation Kinetics of a Bi3Nb1-xTaxO7 Fluorite-Type Solid Solution and Thermodynamic Stability of the Bi3TaO7 End Member", *Journal of Amercan Ceramic Society*, 93 (2010) 2909-2914.

63. Joshua D. Sugar, Joseph T. McKeown, **Velimir R. Radmilović**, Andreas M. Glaeser, and Ronald Gronsky "Encapsulation-induced stabilization of dimensionally restricted metallic alloy wires", *Acta Materialia*, 58 (2010) 5332-5341; DOI: 10.1016/j.actamat.2010.06.008;ISSN: 1359-6454.

64. Goran D. Vuković, Sergej Z. Tomić, Aleksandar D. Marinković, **Velimir R. Radmilović**, Petar S. Uskoković, Miodrag Colić, "The response of peritoneal macrophages to dapsone covalently attached on the surface of carbon nanotubes", *Carbon,* 48 (2010) 3066 –3078.

65. Marco Battaglia, Dario Bisello, Devis Contarato, Peter Denes, Dionisio Doering, Piero Giubilato, Tae Sung Kim, Serena Mattiazzo, **Velimir R. Radmilović**, Sarah Zalusky, "Radiation hardness studies on CMOS monolithic pixel sensors", *Nuclear Instruments and Methods in Physics Research Section A: Accelerators, Spectrometers, Detectors and Associated Equipment,* 624 (2010) 425-427. DOI: 10.1016/j.nima.2010.03.156

66. Marco Battaglia, Devis Contarato, Peter Denes, Dionisio Doering, Thomas Duden, Brad Krieger, Piero Giubilato, Dario Gnani, **Velimir R. Radmilović**, "Characterisation of a CMOS active pixel sensor for use in the TEAM microscope", *Nuclear Instruments and Methods in Physics Research Section A: Accelerators, Spectrometers, Detectors and Associated Equipment,* 622 (2010) 669-677. DOI: 10.1016/j.nima.2010.07.066

67. Gregory S. Doerk, **Velimir R. Radmilović**, and Roya Maboudian, "Branching induced faceting of Si nanotrees", *Applied Physics Letters*, 92 (2010) 123117.
Selected for the Virtual Journal of Nanoscale Science and Technology, Vol. 21 (15), April 12, 2010.

68. Eugenio Zapata-Solvas, Diego Gómez-García, Rosalía Poyato, Zonghoon Lee, Miguel Castillo-Rodríguez, Arturo Domínguez-Rodríguez, **Velimir R. Radmilović**, and Nitin P. Padture, "Microstructural Effects on the Creep Deformation of Alumina/Single-Wall Carbon Nanotubes Composites", *Journal of the American Ceramic Society*, 93 (2010) 2042–2047.

69. M. Torki, I. Živković, **V.R. Radmilović**, D.B. Stojanović, V.J. Radojević, P.S. Uskoković, R.R. Aleskić, "Dynamic mechanical properties of nanocomposites with poly (vinil bytiral) matrix", *International Journal of Modern Physics B*, 24 (2010) 805-812.

70. Z. Lee, **V.R. Radmilović**, B. Ahn, E.J. Lavernia and S.R. Nutt, "Tensile Deformation and Fracture Mechanism of Bulk Bimodal Ultra-Fine Grained Al-Mg Alloy", *Metallurgical & Materials Transaction A*, 41A (2010) 795-801.

71. M.K. Santala, **V.R. Radmilović**, R. Giulian, M. Ridgway, A. Glaeser, R. Gronsky, "Precipitate orientation relationships in Pt-implanted sapphire", *Scripta Materialia*, 62 (2010) 187-190.

72. D. Stojanović, A. Orlović, S. Glisić, S. Marković, **V.R. Radmilović**, P.S. Uskoković, R. Aleksić," Preparation of MEMO silane-coated SiO_2 nanoparticles under high pressure of carbon dioxide and ethanol", *Journal of Supercritical Fluids*, 52 (2010) 276-284.

2009

73. N. Talijan, V. Ćosović, J. Stajić-Trosić, A. Grujić, T. Zak, Z. Lee, and **V.R. Radmilović**, "Thermomagnetic analysis of nanocrystalline Nd4.5Fe77B18.5 alloy", Japan Institute of Metals, *Materials Transaction*, 50 (2009) 2302-2307.

74. V. Ćosović, N. Talijan, A. Grujić, J. Stajić-Trosić, T. Zak, Z. Lee, and **V.R. Radmilović**, "Study of Nd-Fe-B Alloys with Nonstoichiometric Nd Content in Optimal Magnetic State", *Science of Sintering,* 41 (2009) 209-218. (UDK 539.377:537.622)

c

75. Seung-Hee Kang, Ch. Kiran Kumar, Zonghoon Lee, **Velimir R. Radmilović**, and Eui-Tae Kim, "Effects of surface ligands on the charge memory characteristics of CdSe/ZnS nanocrystals in TiO2 thin film", *Applied Physics Letters,* 95 (2009) 183111-3.

76. S. Mentus, Z. Mojović, **V.R. Radmilović**, "The use of NaX zeolite as a template to obtain a mono-atomic Pt dispersion by impregnation with Pt(II) acetylacetonate/acetone solution", *Journal of Serbian Chemical Society*, 74 (2009) 1113-1123.

77. Albert Dato, Zonghoon Lee, Ki-Joon Jeon, Rolf Erni, **Velimir R. Radmilović**, Thomas J. Richardson and Michael Frenklach, "Clean and highly ordered graphene synthesized in the gas phase", *Chemical Communications*, (2009) 6095–6097. DOI: 10.1039/B911395A.

78. D. Stojanović, A. Orlović, S. Marković, **V.R. Radmilović**, P.S. Uskoković, R. Aleksić, "Nanosilica/PMMA composites obtained by the modification of silica nanoparticles in a supercritical carbon dioxide–ethanol mixture", *Journal of Materials Science*, 44 (2009) 6223–6232.

79. U. Dahmen, R. Erni, **V.R. Radmilović**, C. Kisielowski, M.D. Rossell, P. Denes, "Background, status and future of the Transmission Electron Aberration-corrected Microscope project", *Philosophical Transactions of the Royal Society A-Mathematical Physical and Engineering Sciences*, 367 (2009) 3795-3808.

80. M.D. Rossell, R. Erni, M. Asta, **V.R. Radmilović**, U. Dahmen, "Atomic-resolution imaging of lithium in Al_3Li precipitates", *Physical Review B*, 80 (2009) 024110.

81. Goran Vuković, Aleksandar Marinković, Maja Obradović, **Velimir R. Radmilović**, Miodrag Čolić, Radoslav Aleksić and Petar S. Uskoković, "Synthesis, characterization and cytotoxicity of surface amino-functionalized water-dispersible multi-walled carbon nanotubes", *Applied Surface Science*, 255 (2009) 8067-8075.

82. N. R. Elezović, B. M. Babić, Lj. M. Vračar, **V.R. Radmilović**, and N.V. Krstajić, "Preparation and characterization TiOx–Pt/C catalyst for hydrogen oxidation reaction", *Physical Chemistry Chemical Physics*, 11 (2009) 5192-5197.

83. B. Babić, J. Gulicovski, Lj. Gajić-Krstajić, N. Elezović, **V.R. Radmilović**, N.V. Krstajić, Lj.M. Vračar, "Kinetic study of the hydrogen oxidation reaction on sub-stoichiometric titanium oxide-supported platinum electrocatalyst in acid solution", *Journal of Power Sources*, 193 (2009) 99-106.

84. Zonghoon Lee, Ki-Joon Jeon, Albert Dato, Rolf Erni, Thomas Richardson, Michael Frenklach, and **Velimir R. Radmilović**, "Direct imaging of soft-hard interfaces enabled by graphene", *Nano Letters*, 9 (2009) 3365-3369.

2008

85. Q.A.S. Nguyen, Y.V. Bhargava, **V.R. Radmilović**, T.M. Devine, Structural Study of Electrochemically Synthesized TiO2 Nanotubes via Cross-Sectional and High-Resolution TEM, *Electrochimica Acta,* 54 (2008) 4340-4344.

86. E.J. Luber, B. Olsen, C. Ophus, **V.R. Radmilović**, D. Mitlin, "All-metal AFM probes fabricated from microstructurally tailored Cu-Hf thin films", *Nanotechnology*, 20 (2009) 345703.

87. C. Ophus, E.J. Luber, M. Edelen, Z. Lee, L.M. Fisher, S. Evoy, D. Lewis, U. Dahmen, **V.R. Radmilović**, D. Mitlin, "Nanocrystalline-amorphous transitions in Al-Mo thin films: Bulk and surface evolution", *Acta Materialia*, 57 (2009) 4296-4303; ISSN: 1359-6454.

88. Marco Battaglia, Devis Contarato, Peter Denes, Dionisio Doering, **Velimir R. Radmilović**, "CMOS Pixel Sensor Response to Low Energy Electrons in Transmission Electron Microscopy", *Nuclear Instruments and Methods in Physics Research Section A: Accelerators, Spectrometers, Detectors and Associated Equipment,* 605 (2009) 350-352.

89. Thomas Duden and **Velimir R. Radmilović**, "High sensitivity resonance frequency measurements of individual microcantilevers using fiber optical interferometry", *Review of scientific instruments,* 80 (2009) 023706.

90. I. Nikolić, D. Blecić and **V.R. Radmilović**, "Investigation of mechanism of $Al(OH)_3$ crystal growth", *Canadian Journal of Chemical Engineering,* 87 (2009) 31-37.

91. W. Bras, S.M. Clark, G.N. Greaves, M. Kunz, W. van Beek, and **V.R. Radmilović**, "Nano-crystal growth in cordierite glass ceramics studied with X-ray scattering", *Journal of Crystal Growth and Design*, 9 (2009) 1297-1305.

92. Christopher S. Roper, **Velimir R. Radmilović**, Roger T. Howe, and Roya Maboudian, "Electrical and Mechanical Characterization of Doped and Annealed Polycrystalline 3C-SiC Thin Films", *Journal of the Electrochemical Society*, 156 (2009) D5-D10.

93. A. Tolley, E. Zelaya, **V.R. Radmilović**, "TEM Studies of Precipitation Processes in Alloys", X Interamerican Congress of Electron Microscopy 2009 (CIASEM 2009) and I Congreso de la Asociación Argentina de Microscopía (SAMIC 2009). Rosario, 25-28 Octubre 2009. *Acta Microscópica*, Vol. 18, Supp. C, 165-166 (2009). **(Invited talk)**

94. Marco Battaglia, Devis Contarato, Peter Denes, Dionisio Doering, Piero Giubilato, Tae Sung Kim, Serena Mattiazzo, **Velimir R. Radmilović**, Sarah Zalusky, "A rad-hard CMOS active pixel sensor for electron microscopy", *Nuclear Instruments and Methods in Physics Research Section A: Accelerators, Spectrometers, Detectors and Associated Equipment,* 598 (2009) 642-649.

95. N.R. Elezović, Lj.Gajić-Krstajić, **V.R. Radmilović**, Lj.M. Vračar and N.V. Krstajić, "Effect of Chemisorbed Carbon Monoxide on Pt/C Electrode on the Mechanism of the Hydrogen Oxidation Reaction", *Electrochimica Acta*, 54 (2009) 1375–1382.

96. M. V. Castro Riglos , D. N. Morello, A. Tolley and **V.R. Radmilović**, "Microstructural Characterization of Heat Treated Al-Cu-Mg Microalloyed with Si and Ge". Acta Microscópica, Vol. 18, Supp. C, 183-184 (2009).

97. N.R. Elezović, B.M. Babić, **V.R. Radmilović**, Lj.M. Vračar and N.V. Krstajić, "Synthesis and characterization of MoOx-Pt/C and TiOx-Pt/C nano-catalysts for oxygen reduction", *Electrochimica Acta*, 54 (2009) 2404-2409.

2008

98. Christopher S. Roper, **Velimir R. Radmilović**, Roger T. Howe, and Roya Maboudian,"Characterization of polycrystalline 3*C*-SiC films deposited from the precursors 1,3-disilabutane and dichlorosilane", *Journal of Applied Physics,* 103 (2008) 084907:1 - 6.

99. C. Kisielowski, B. Freitag, M. Bischoff, H. van Lin, S. Lazar, G. Knippels, P. Tiemeijer, M. van der Stam, S. von Harrach, M. Stekelenburg, M. Haider, S. Uhlemann, H. Müller, P. Hartel, B. Kabius, D. Miller, I. Petrov, E.A. Olson, T. Donchev, E.A. Kenik, A.R. Lupini, J. Bentley, S.J. Pennycook, I.M. Anderson, A.M. Minor, A.K. Schmid, T. Duden, **V.R. Radmilović**, Q.M. Ramasse, M. Watanabe, R. Erni, E.A. Stach, P. Denes, and U. Dahmen, "Detection of Single Atoms and Buried Defects in Three Dimensions by Aberration-Corrected Electron Microscope with 0.5-Å Information Limit", *Microscopy and Microanalysis*, 14 (2008) 469–477.

100. C. Ophus, N. Nelson Fitzpatrick, Z. Lee, E. Luber, C. Harrower, K. Westra, U. Dahmen, **V.R. Radmilović**, S. Evoy, and D. Mitlin, "Resonance properties and microstructure of ultracompliant metallic nanoelectromechanical systems resonators synthesized from Al–32 at. %Mo amorphous-nanocrystalline metallic composites", *Applied Physics Letters* 92 (2008) 123108.

101. N.T.Q. Noa, T. Nguyen, Z. Lee, S.H. Kang, **V.R. Radmilović**, E.T. Kim, "Synthesis and ferromagnetism of Co-doped TiO2-delta nanobelts by metallorganic chemical vapor deposition", *Applied Physics Letters,* 92 (2008) 122508-3.

102. N.R. Elezović, B.M. Babić, **V.R. Radmilović**, S. Gojković, N.V. Krstajić and Lj.M. Vračar, "Pt/C doped by MoOx as the electrocatalyst for oxygen reduction and methanol oxidation", *Journal of Power Sources*, 175 (2008) 250-255.

103. I. Nikolić, **V.R. Radmilović**, T.Z. Sholklapper, D. Blecić, "Using a FIB to prepare $Al(OH)_3$ samples for the TEM", *Materials and Technology*, 42 (2008) 45-47; ISSN: 1580-2949.

104. Eugenio Zapata-Solvas, Rosalía Poyato, Diego Gómez-García, Arturo Domínguez-Rodríguez, **Velimir R. Radmilović**, and Nitin P. Padture, "Creep-Resistant Composites of Alumina and Single-Wall Carbon Nanotubes", *Applied Physics Letters* 92 (2008) 111912.

105. Christopher S. Roper, **Velimir R. Radmilović**, Roger T. Howe, and Roya Maboudian, "Effects of annealing on residual stress and strain gradient of doped polycrystalline SiC thin films", *Elecrochemical and Solid State Letters*, 11 (2008) D35-D37.

106. G.D. Hibbard, **V.R. Radmilović**, K.T. Aust and U. Erb, "Grain boundary migration during abnormal grain growth in nanocrystalline Ni", *Materials Science and Engineering A*, 494 (2008) 232-238.

107. E. Luber, R. Mohammadi, C. Ophus, L. Zee, N. Nelson-Fitzpatrick, K. Westra, S. Evoy, U. Dahmen, **V.R. Radmilović** and D. Mitlin, "Tailoring the microstructure and surface morphology of metal thin films for NEMS applications", *Nanotechnology*, 19 (2008) 125705.

108. **V.R. Radmilović**, A. Tolley, E. Marquis, M.D. Rossell, Z. Lee and U. Dahmen, "Monodisperse Al_3(LiScZr) core/shell precipitates in Al alloys", *Scripta Materialia*, 58 (2008) 529-532.

109. A. Dato, **V.R. Radmilović**, Z. Lee, J. Phillips, M. Frenklach, Substrate-Free Gas-Phase Synthesis of Graphene Sheets in a Microwave Plasma Reactor, *Nanoletters,* 8 (2008) 2012-2016.

110. J.R. Jinschek, K.J. Batenburg, H.A. Calderon, R. Kilaas, **V.R. Radmilović** and C. Kisielowski, "3-D reconstruction of the atomic positions in a simulated gold nanocrystal based on discrete tomography: Prospects of atomic resolution electron tomography", *Ultramicroscopy*, 108 (2008) 589-604.

2007

111. P. Denes, J.-M. Bussat, Z. Lee, **V.R. Radmilović**, "Active Pixel Sensors for electron microscopy", *Nuclear Instruments and Methods in Physics Research* A 579 (2007) 891–894.

112. N. Nelson-Fitzpatrick, C. Ophus, E. Luber, L. Gervais, Z. Lee, **V.R. Radmilović**, D. Mitlin, S. Evoy, "Synthesis and characterization of Au-Ta nanocomposites for nanomechanical cantilever devices", *Nanotechnology*, 18 (2007) Art. No. 355303.

113. B.M. Babić, B.V. Kaludjerović, Lj.M. Vračar, **V.R. Radmilović**, N.V. Krstajić, "Characterization of a surface modified carbon cryogel and a carbon supported Pt catalyst", *Journal of the Serbian Chemical Society,* 72 (2007) 773-785.

114. Tal Z. Sholklapper, **Velimir R. Radmilović**, Craig P. Jacobson, Steven J. Visco and Lutgard C. De Jonghe, "Nanocomposite Ag-LSM Solid Oxide Fuel Cell Electrodes", *Journal of Power Sources*, 175 (2007) 206-210.

115. B. Jegdić, D.M. Drazić, J.P. Popić, and **V.R. Radmilović**, "Structural effects of metallic chromium on its electrochemical behavior", *Journal of the Serbian Chemical Society,* 72 (2007) 563-578.

116. Susan E. Habas, Hyunjoo Lee, **Velimir R. Radmilović**, Gabor A. Somorjai, and Peidong Yang, "Shaping metal nanocrystals through epitaxial seeded growth", *Nature Materials*, 6 (2007) 692 – 697.

117. L. Tomutsa, D. Silin, and **V.R. Radmilović**, "Analysis of Chalk Petrophysical Properties Via Submicron Scale Pore Imaging and Modeling", *SPE Reservoir Evaluation & Engineering Journal*, 10 (2007) 285-293; LBNL-59822, 2007.

118. **V.R. Radmilović**, C. Taylor, A. Tolley, D. Mitlin and U. Dahmen, "Nanoindentation Properties and the Microstructure of Grain Boundary Precipitate-Free-Zones (PFZs) in an AlCuSiGe Alloy", *Philosophical Magazine*, 87 (2007) 3905-3919.

119. E. Spiecker, **V.R. Radmilović**, U. Dahmen, „3D grain structure of CVD-grown polycrystalline SiC films – a quantitative TEM characterization using a new double-wedge geometry", *Acta Materialia*, 55 (2007) 3521-3530; ISSN: 1359-6454.

120. Nedeljko V. Krstajić, Ljiljana M. Vračar, **Velimir R. Radmilović**, Stelios G. Neophytides, Miranda Labou, Jelena M. Jaksić, Reidar Tunold, Polycarpos Falaras and Milan M. Jaksić, "Advances in interactive supported electrocatalysts for hydrogen and oxygen electrode reactions", *Surface Science*, 601 (2007) 1949-1966.

121. Sueng-Hee Kang, Hoa Nguyen, Thi Quynh, Soon-Gil Yoon, Eui-Tae Kim, Zonghoon Lee, **Velimir R. Radmilović**, "Cobalt clustering and ferromagnetism in chemical vapor deposited $Ti_{1-x}Co_xO_2$-delta thin films", *Applied Physics Letters* 90 (2007) 102504.

122. Quoc Ngo, Alan M Cassell, **Velimir R. Radmilović**, Jun Li, Shoba Krishnan, M. Meyyappan and Cary Y Yang, "Palladium catalyzed formation of carbon nanofibers by plasma enhanced chemical vapor deposition", *Carbon* 45 (2007) 424-428.

123. **V.R. Radmilović**, U. Dahmen, D. Gao, C.R. Stoldt, C. Carraro and R. Maboudian, "Formation of <111> fiber texture in β-SiC films deposited on Si(100) substrates", *Diamond and Related Materials*, 16 (2007) 74-80.

124. Tal Z. Sholklapper, **Velimir R. Radmilović**, Craig P. Jacobson, Steven J. Visco, and Lutgard C. De Jonghe, "Synthesis and Stability of a Nanoparticle-Infiltrated Solid Oxide Fuel Cell Electrode", *Electrochemical and Solid-State Letters*, 10 (2007) B74-B76.

2006

125. **V.R. Radmilović**, A. Tolley, Z. Lee and U. Dahmen, "Core-Shell Structures and Precipitation Kinetics of $Al_3(ScZr)$ $L1_2$ Intermetallic Phase in Al-Rich Alloy", *Metalurgija - Journal of Metallurgy*, 12 (2006) 309-314.

126. Arnaud Grosjean, Olivier Sanseau, **Velimir R. Radmilović**, Alain Thorel, "Reactivity and diffusion between $La_{0.8}Sr_{0.2}MnO_3$ and ZrO_2 at interfaces in SOFC cores by TEM analysis on FIB samples tape-casting", *Solid State Ionics*, 177 (2006) 1977-1980. DOI: 10.1016/j.ssi.2006.04.032; ISSN: 01672738.

127. D. Mitlin, **V.R. Radmilović**, T.-Y. Pan, Z. Feng, M. L. Santella, "Structure-Properties Relations in Spot Friction Welded (also known as Friction Stir Spot Welded) 6111 Aluminum", *Materials Science and Engineering A*, 441 (2006) 79-96.

128. B. Babić, **V.R. Radmilović**, N. Krstajić, B. Kaludjerović, "Electrooxidation of hydrogen on nanostructured Pt/C catalysts for polymer electrolyte fuel cells", *Materials Science Forum*, 518 (2006) 283-288.

129. Joshua D. Sugar, Joseph T. McKeown, Andreas M. Glaeser, Ronald Gronsky and **Velimir R. Radmilović**, "Spatially confined alloy single crystals for model studies of volumetrically constrained phase transformations", *Applied Physics Letters*, 89 (2006) 173102.

130. Laurent Gremillard, Eduardo Saiz, **Velimir R. Radmilović**, Antoni P. Tomsia, "Spreading and reaction of a lead-free solder on alumina", *Journal of Materials Research*, 21 (2006) 3222-3233.

131. Z. Lee, C. Ophus, L.M. Fischer, N. Nelson-Fitzpatrick, K.L. Westra, S. Evoy, **V.R. Radmilović**, U. Dahmen and D. Mitlin, "Metallic NEMS components fabricated from nanocomposite Al-Mo films", *Nanotechnology* 17 (2006) 3063–3070.

132. Christopher S. Roper, **Velimir R. Radmilović**, Roger T. Howe, and Roya Maboudian, "Single-source chemical vapor deposition of SiC films in a large-scale low-pressure CVD growth, chemical, and mechanical characterization reactor", *Journal of the Electrochemical Society*, 153 (2006) C562-C556.

133. J.T. Robinson, J.A. Liddle, A. Minor, **V.R. Radmilović**, and O.D. Dubon, "Morphological evolution of Ge islands on Au-patterned Si", *J. of Crystal Growth*, 287 (2006) 518-521.

134. Lj.M. Vračar, N.V. Krstajić, **V.R. Radmilović** and M.M. Jaksić, "Electrocatalysis by nanoparticles - oxygen reduction on EBONEX/Pt electrode", *Journal of electroanalytical chemistry*, 587 (2006) 99-107.

135. Lj.M. Vračar, S.Lj. Gojković, N.R. Elezović, **V.R. Radmilović**, M.M. Jaksić**,** N.V. Krstajić, "Magneli phase titanium oxides as catalystsupport-electrochemical behaviour of Ebonex/Pt catalyst"*, J. of New Materials for Electrochemical Systems*, 9 (2006) 99-106.

136. B.M. Babić, Lj. M. Vračar, **V.R. Radmilović**, and N.V. Krstajić, "Carbon Cryogel as Support of Platinum Nano-sized Electrocatalyst for the Hydrogen Oxidation Reaction", *Electrochimica Acta*, 51(2006) 3820-3826.

137. **V.R. Radmilović**, M.K. Miller, D. Mitlin and U. Dahmen, "Strain-compensated nano-clusters in Al-Si-Ge alloys", *Scripta Materialia*, 54 (2006) 1973-1978.

2005

138. T.S. Mintz, Y.V. Bhargava, S.A. Thorne, R. Chopdekar, T. W. Olson, **V.R. Radmilović**, Y. Suzuki, and T.M. Devine, "Electrochemical Synthesis of Funtionalized Oxide Nanowires", *Electrochemical and Solid-State Letters*, 8 (2005) D26-D30.

139. J.T. Robinson, J.A. Liddle, A. Minor, **V.R. Radmilović**, D. O. Yi, P. Alex Greaney, K. N. Long, A. Kubota, D. C. Chrzan and O.D. Dubon, "Metal-mediated assembly of islands arrays: Ge epitaxy on Au-patterned Si (100)", *Nano Letters*, 5 (2005) 2070-2073.

140. N. Ilić, M.T. Jovanović, **V.R. Radmilović**, Đ. Drobnjak, "Manifestations of dynamic strain ageing in 2090 Al-Li alloy", *Zeitschrift fur Metallkunde* 96 (2005) 1386-1390.

141. A.E. Porter, R.K. Nalla, A. Minor, J.R. Jinschek, C. Kisielowski, **V.R. Radmilović**, J.H. Kinney, A.P. Tomsia, R.O. Ritchie, "A transmission electron microscopy study of mineralization in age-induced transparent dentin", *Biomaterials*, 26 (2005) 7650-7660.

142. D.D. Gorhe, K.S. Raja, S.A. Namjoshi, **V.R. Radmilović**, A. Tolly, and D.A. Jones, "Electrochemical Methods to Detect Susceptibility of Ni-Cr-Mo-W Alloy-22 to Intergranular Corrosion", *Metallurgical and Materials Transaction*, 36A (2005) 1153-1167.

143. R.K. Nalla, A.E. Porter, C. Daraio, A. Minor, **V.R. Radmilović**, E.A. Stach, A.P. Tomsia and R.O. Ritchie, "Ultrastructural examination of dentin using focussed ion-beam cross-sectioning and transmission electron microscopy", *Micron*, 36 (2005) 672-680.

144. A. Tolley, D. Mitlin, **V.R. Radmilović** and U. Dahmen, "Transmission electron microscopy analysis of grain boundary precipitate-free-zones (PFZs) in an AlCuSiGe alloy", *Materials Science and Engineering A*, 412 (2005) 204-213.

145. Z. Lee, D.B. Witkin, **V.R. Radmilović**, E.J. Lavernia and S.R. Nutt, "Bimodal Microstructure and Deformation of Cryomilled Bulk Nanocrystalline Al-7.5Mg Alloy", *Materials Science and Engineering A,* 410-411 (2005) 462-467.

146. **V.R. Radmilović**, T.J. Richardson, S.J. Chen, P.N. Ross Jr., "Carbon-supported Pt–Sn electrocatalysts for the anodic oxidation of H_2, CO, and H_2/CO mixtures. Part I. Microstructural characterization", *Journal of Catalysis,* 232 (2005) 199–209.

147. A.V. Tripković, K.Đ. Popović, J.D. Lović, N.M. Marković and **V.R. Radmilović**, "Formic Acid Oxidation on Pt/Ru Nanoparticles: Temperature Effects", *Materials Science Forum*, 494 (2005) 223-228.

148. Devesh Deshpande, Ajay Malshe, Eric A. Stach, **Velimir R. Radmilović**, Dennis Alexander, and David Doerr, "Investigation of femtosecond laser assisted nano and microscale modifications in lithium niobate", *Journal of Applied Physics* 97, (2005) 74316-1-9.

149. D. Mitlin, A. Schmid and **V.R. Radmilović**, "Transmission Electron Microscopy Based Study of Epitaxy in (001)Cu-Nb Bi-Layer and Tri-Layer Nano-Scale Films", *Applied Physics Letters,* 86 (2005) 51904.

150. **V.R. Radmilović**, D. Mitlin and U. Dahmen, "Ultrahard Al-Si thin films", *Materials Science Forum*, 494 (2005) 13-18.

151. A. Tolley, **V.R. Radmilović** and U. Dahmen,"Segregation in Al_3(ScZr) precipitates in Al-Sc-Zr alloys", *Scripta Materialia*, 52 (2005) 621-625.

2004

152. Di Gao, C. Carraro, **V.R. Radmilović**, R.T. Howe, R. Maboudian, "Fracture of polycrystalline 3C-SiC films in microelectromechanical systems", *Journal of Microelectromechanical Systems,* vol. 13 (2004) 972-976.

153. B. Dracup, P. Turchi, **V.R. Radmilović**, U. Dahmen, and J.W. Morris, Jr., "Validation of Predicted Precipitate Compositions in Al-Si-Ge", *Metallurgical and Materials Transaction A*, 35A (2004) 2305-2311.

154. Vidyut Gopal, Eric A. Stach, **Velimir R. Radmilović**, and Ian A. Mowat, "Metal delocalization and surface decoration in direct-write nanolithography by electron beam induced deposition", *Applied Physics Letters*, 85 (2004) 49-51.

155. Vidyut Gopal, Chiara Dariao, **Velimir R. Radmilović**, and Sung-Ho Jin, Peidong Yang and Eric A. Stach "Rapid Prototyping of Site-specific Nanocontacts by Electron and Ion Beam Assisted Direct-write Nanolithography", *Nano Letters*, 4 (2004) 2059-2063.

156. S. Bals , B. Kabius , M. Haider , **V.R. Radmilović** and C. Kisielowski, "Annular dark field imaging in a TEM", *Solid State Communications*, 130 (2004) 675-680.

157. T. Schenkel, I. W. Rangelow, R. Keller, S. J. Park, J. Nilsson, A. Persaud, **V. R. Radmilović**, J. A. Liddle, P. Grabiec, J. Bokor, and D. H. Schneider, "Open questions in electronic sputtering of solids by slow highly charged ions with respect to applications in single ion implantation", *Nuclear Instruments and Methods in Physics Research Section B:* Beam Interactions with Materials and Atoms, 219–220 (2004) 200–205.

158. I. Nikolić, D. Blečić, N. Blagojević, **V.R. Radmilović** and K. Kovačević, "Influence of oxalic acid on the kinetics of $Al(OH)_3$ growth from caustic soda solutions", *Hydrometallurgy*, 74 (2004) 1-9.

159. V. Maksimović, A. Tolley, M.T. Jovanović and **V.R. Radmilović**, "Aging of a commercial Al-Cu-Si based alloy modified with germanium", *Mat. Sci. Forum*, 453-454 (2004) 323-328.

160. David Mitlin, Amit Misra, **Velimir R. Radmilović**, Michael Nastasi, Richard Hoagland, David J. Embury, J. P. Hirth and Terence E. Mitchell, "Formation of Misfit Dislocations in Nano-Scale Ni-Cu Bilayer Films", *Philosophical Magazine A*, 84 (2004) 719-736.

161. Christopher R. Perrey, C. Barry Carter, Joseph Michael, Paul Kotula, Eric Stach, and **Velimir R. Radmilović**, "Using the FIB to characterize nanoparticle materials"; *Journal of Microscopy*, the "NanoFIB" issue, 214 (2004) 222-236.

2003

162. T. Schenkel, **V.R. Radmilović**, E.A. Stach, S.-J. Park and A. Persaud, "Formation of a Few Nanometer Wide Holes in Membranes with a Dual Beam FIB", *Journal of Vacuum Science & Technology B* (Microelectronics and Nanometer Structures), 21 (2003) 2720-3.

163. E. Stach, **V.R. Radmilović**, D. Deshpande, A. Malshe, D. Alexander, D. Doerr, "Nanoscale defects induced by a femtosecond laser-the case of $LiNbO_3$", *Applied Physics Letters*, 83 (2003) 4420-4422.

164. **V.R. Radmilović**, U. Dahmen, D. Mitlin, and J.W. Morris, Jr., "The Effect of Thermal Cycling on the Size and the Shape of Si-Ge Precipitates in Aluminum", *Met. & Mater. Trans.,* 34 (2003) 543-551.

165. D. Mitlin, **V.R. Radmilović**, U. Dahmen and J.W. Morris, Jr., "On the influence of Si-Ge Additions on the Aging Response of Al-Cu", *Metallurgical and Materials Transaction*, 34A (2003) 735-742.

166. V. Maksimović, S. Zec, **V.R. Radmilović** and M.T. Jovanović, *Jornal of Serbian Chemical Society*, 68 (2003) 893-901.

167. I. Nikolić, D. Blecić, N. Blagojević, **V.R. Radmilović** and K. Kovacević, "Influence of oxalic acid on the agglomeration process and total soda content in precipitated $Al(OH)_3$", *Journal of Crystal Growth,* 252 (2003) 360-366 .

2002

168. U. Dahmen, C.J.D. Hetherington, **V.R. Radmilović**, E. Jonson, S.Q. Xiao, C.P. Luo and K.H. Westmacott, "Electron Microscopy Observation on the Role of Twinning in the Evolution of Microstructure', *Journal of Microscopy and Microanalysis*, Vol. 8 (2002) 247-256.

169. **V.R. Radmilović**, U. Dahmen, B. Dracup, M.K. Miller, D. Mitlin, and J.W. Morris, "Clustering and precipitation in Al-Si-Ge and Al-Si-Ge-Cu alloys", *Materials Science Forum*, vol. 396-402 (2002) 905-910.

170. K.I. Popov, Lj. J. Popović, E. R. Ivanović, **V.R. Radmilović** and M. G. Pavlović: "The effect of reversing current deposition on the apparent density of electrolytic copper powder", *J. Serb. Chem. Soc*., vol. 67 (2002) 61-67.

171. U.A. Paulus, A. Wokaun, G.G. Scherer, T.J. Schmidt, V. Stamenković, **V.R. Radmilović**, N.M. Marković, and P.N. Ross, "Oxigen Reduction on Carbon Supported Pt-Ni and Pt-Co Alloy Catalysts", *Journal of Physical Chemistry, B*, 106 (2002) 4181-4191.

172. C. Yanar, J.M.K. Wiezorek, **V.R. Radmilović** and W.A. Soffa, "Massive transformation and the formation of ferromagnetic $L1_o$ phase in Mn-Al-base alloys", *Met. & Mater. Trans.*, 33A (2002) 2413-2423.

2001

173. M. G. Pavlović, Lj. J. Popović, E. R. Ivanović, **V.R. Radmilović** and K. I. Popov: "The effect of particle structure on apparent density of electrolytic copper powder", *J. Serb. Chem. Soc*., vol. 66 (2001) 923-933.

174. D.Mitlin, U. Dahmen, **V.R. Radmilović** and J.W. Morris, Jr., "Precipitation and hardening in Al–Si –Ge", *Mater. Sci. & Eng.,* A301 (2001) 232-238.

175. C. Yanar, **V.R. Radmilović**, W.A. Soffa and J.M.K. Wiezorek, "Evolution of Microstructure and Defect Structure in $L1_o$-0rdered Manganese Aluminide Permanent Magnet Alloys", *Intermetallics*, 9 (2001) 949-954.

176. **V.R. Radmilović**, D. Mitlin, S. Hiderberger, U. Dahmen, "The use of Moiré patterns in TEM images to measure precipitate composition in Al-Si-Ge alloys", *Journal of Microscopy and Microanalysis,* vol. 7 (Supplement 2), (2001) 238-239.

177. R. Kilaas and **V.R. Radmilović**, "Structure Determination and Structure Refinement of Al_2CuMg Precipitates by Quantitative High-Resolution Electron Microscopy", *Ultramicroscopy*, vol. 88 (2001) 63-72.

2000

178. D. Mitlin, J.W. Morris, Jr., U. Dahmen, and **V.R. Radmilović**, "Precipitation and strengthening phenomena in Al-Si-Ge and Al-Si-Ge-Cu alloys", *Journal of Advances in Techn. Mater. & Mater. Process.*, 2 (2000) 87-95.

179. E. Romhanji, D. Mitlin and **V.R. Radmilović**, "Deformation Pattern and Strain Hardening in a Highly Textured 8090 Al-Li Alloy Sheet", *Journal Mater. Sci. and Eng. A*, vol. A291 (2000) 160-167.

180. D. Mitlin, **V.R. Radmilović** and J.W. Morris, JR., "Catalyzed precipitation in Al-Cu-Si", *Met. & Mat. Trans.*, 31A (2000) 2697-2711.

181. C. Yanar, J.M.K. Wiezorek, **V.R. Radmilović** and W.A. Soffa, "Characterization of interphase interfaces developed during the ordering transformation (ε (A3) $\rightarrow$ τ ($L1_0$)) in manganese-aluminum alloys", *Journal of Microscopy and Microanalysis,* vol. 6 (2000) 364-365.

182. D. Mitlin, **V.R. Radmilović**, U. Dahmen, and J.W. Morris, Jr., "Precipitation and Aging in Al- Si-Ge-Cu", *Met. & Mat. Trans.* Vol. 32A(2000) 197-198.

1999

183. **V.R. Radmilović**, T. Richardson, S.J. Chen, and P.N. Ross, "Structure and composition of supported Pt-Sn electrocatalysts"; Proceed. of 57th MSA Meeting, Springer, Portland, *Journal of Microscopy and Microanalysis,* vol. 5 (Supplement 2), (1999) 702-703.

184. T. Radetić, **V.R. Radmilović**, and W.A. Soffa, "Strengthening and the Interplay of slip and twinning in copper-titanium alloy", *Inzeneria materialowa*, vol. 20 (1999) 32-35.

185. E. Romhanji, M. Popović, and **V.R. Radmilović**, "Room temperature deformation behavior of AlMg6.5 alloy sheet", *Z. Metallkunde*, vol.90 (1999) 305-310.

186. **V.R. Radmilović**, R. Kilaas, U. Dahmen, and G.J. Shiflet, "Structure and morphology of S-phase precipitates in aluminum", *Acta Materialia*, vol. 47 (1999) 3987-3997; ISSN: 1359-6454.

187. **V.R. Radmilović**, and K. Krishnan, "Magnetic domain wall-microstructure interfaces in low-carbon steel", *Journal of Microscopy and Microanalysis,* vol. 5 (Supplement 2), (1999) 18-19.

188. **V.R. Radmilović**, R. Kilaas, and U. Dahmen, "Structure determination of the Al_2CuMg imtermetallic phase"; Proceed. of 57th MSA Meeting, Springer, Portland *Journal of Microscopy and Microanalysis,* vol. 5 (Supplement 2), (1999) 180-181.

189. T. Radetić, **V.R. Radmilović** and W.A. Soffa, "Electron Microscopy Observations Of Twin-Twin Intersections in a Particle Hardened Copper-Titanium Alloy", *Scripta Materialia*, vol. 40 (1999) 845-852.

190. **V.R. Radmilović**, R. Kilaas, and U. Dahmen, "Structure Determination of the Al_2CuMg Intermetallic Phase", *Microscopy & Microanalysis*, vol. 5, supp. 2 (1999) 180-181.

1998

191. E. Romhanji, M. Popović, and **V.R. Radmilović**, "On serrated yielding in AlMg6.5 alloy sheet", *Journal of Serbian Chemical Society*, vol. 63 (1998) 823-832.

192. AT. Dimitrov, SH. Jordanov, KI. Popov, MG. Pavlović, **V.R. Radmilović**, "Electrodeposition of Ag from nitrate solutions: Part I. Effect of phosphate ions on morphology", *J. of Applied Electrochemistry,* v28 (1998) 791-796.

193. A.Nikolić, **V.R. Radmilović**, M. Simicić, Đ. Koruga, "Nanotubes: Basic structural and energy properties", *Materials Science Forum*, Vol. 282-283 (1998) 83-92.

194. S.K. Zecević, J.B. Zotović, S. Lj. Gojković, and **V.R. Radmilović**, "Electrochemically deposited thin films of amorphous Fe-P alloy. Part I: Chemical composition and phase structure characterization", *J. Electroanalytical Chemistry,* v. 448 (1998) 245-252.

195. **V.R. Radmilović**, K.I. Popov, M.G. Pavlović, A.T. Dimitrov and S. Hadzi Jordanov, "The mechanism of silver granular electrodeposits formation", *J. Solid State Electrochemistry*, vol. 2 (1998) 162-169.

196. V.H. Crespi, N.G. Chopra, M.L. Cohen, A. Zettl, **V.R. Radmilović**, "Site-selective radiation damage of collapsed carbon nanotubes", *Applied Physics Letters*, vol.73 (1998) 2435-2357.

197. J.Y. Gu, S.B. Ogale, M. Rajeswari, T. Venkatesan, R. Ramesh, **V.R. Radmilović**, U. Dahmen, G. Thomas, T.W. Noh, "In-plane grain boundary effects on the magnetotransport properties of $La_{0.7}Sr_{0.3}MnO_{3-x}$, *Applied Physics Letters*, vol.72 (1998) 1113-1115.

1997

198. K.I. Popov, E. R. Stojilković, **V.R. Radmilović**, M. G. Pavlović, "Morphology of lead dendrites electrodeposited by square-wave pulsating overpotential", *Powder Technology*, vol. 93 (1997) 55-61.

1996

199. N. Ilić, Đ. Drobnjak, **V.R. Radmilović**, M.T. Jovanović, and D. Marković, "Serrated yielding in Al-Li base alloys", *Scripta Materialia*, vol. 34 (1996) 1123-1130.

200. K.I. Popov, M.G. Pavlović, E.R. Stojiljković, and **V.R. Radmilović**, "The silver powder electrodeposition by constant and pulsating overpotential", *J. Serb. Chem. Soc*., vol. 61 (1996) 47-55.

201. **V.R. Radmilović**, "Application of electron microscopy in studies of phase transformations and other phenomena in materials", Advanced Materials for High Technology Applications; *Materials Science Forum*, Vol. 214 (1996) 21-32.

202. T. Radetić, **V.R. Radmilović**, and W.A. Soffa, "Electron microscopy observations of deformation twinning in a precipitation hardened copper-titanium alloy", *Scripta Materialia*, vol. 35 (1996) 1403-1409.

1995

203. **V.R. Radmilović**, H. Gasteiger, P. Ross, "Structure and chemical composition of a supported Pt-Ru electrocatalyst for methanol oxidation", *Journal of Catalysis*, vol. 154 (1995) 98-106.

204. E. Romhanji and **V.R. Radmilović**, "Effect of grain size on bonding procedure in steel/copper and steel/brass sandwiches", *Z. Metallkunde*, vol. 86 (1995) 754-759.

205. S. Ratković, M. Đurdjević, and **V.R. Radmilović**, "Monte Carlo simulation of microstructure development during solidification in Al-5%Cu alloy", *J. Serb. Chem. Soc*., vol. 60 (1995) 1167-1175.

206. S.K. Zečević, J.B. Zotović, S. Lj. Gojković, and **V.R. Radmilović**, "Voltametric and Spectroscopic characterization of electrochemicaly deposited thin films of Fe-P alloys", *J. Serb. Chem. Soc*., vol. 60 (1995) 827-839.

1994

207. K.I. Popov, **V.R. Radmilović**, B.N. Grgur, and M. G. Pavlović, "The morphology of copper electrodeposits: Part II. The mechanisms of carrot like electrodeposits formation", *J. Serb. Chem. Soc*., vol. 59 (1994) 119.

208. K.I. Popov, **V.R. Radmilović**, B.N. Grgur, and M.G. Pavlović, "The morphology of copper electrodeposits: Part III. Disperse deposits formation", *J. Serb. Chem. Soc*., vol. 59 (1994) 119-125.

1993

209. Đ. Drobnjak, P. Živanović, S. Vucić, **V.R. Radmilović**, "Structure and properties of cold rolled and annealed commercial purity copper", *Materials Science Forum*, Vol. 113-115 (1993) 703-708.

210. K.I. Popov, B.N. Grgur, M.G. Pavlović, and **V.R. Radmilović**, "The morphology of copper electrodeposits. Part I. The mechanism of copper cauliflower like electrodeposits formation", *J. Serb. Chem. Soc*., vol. 58 (1993) 1055-1062.

211. S. Stević, **V.R. Radmilović**, Lj. Karanović, V. Halilev, "Microstructure of As-Cast Lead Fluoroluminate Glass", *Science of Sintering*, vol. 25 (1993) 199-206.

1992

212. D.M. Dražić, S. Gojković, S.K. Zečević, and **V.R. Radmilović**, "Cathodic processes on corroding low carbon steel: the effect of the degree of deformation", *Corrosion Sci*., vol. 33 (1992) 791-797.

1991

213. D. Velimirović, **V.R. Radmilović**, M. Đordjević, D. Kočović, D. Kostić, and S. Pavlović, "Epidural lead fracture caused by material processing fault", *PACE - pacing and clinical electrophysiology,* vol. 14 (1991) 1425-1431.

214. A.G. Fox, S.C. Fuller, C.E. Whitman, and **V.R. Radmilović**, "A powder X ray diffraction study of a solution treated and ice brine quenched Al 14.25at.% Li alloy", *Journal Mater. Res*., vol. 6 (1991) 712-718.

1990

215. J.S. Chen, **V.R. Radmilović**, and T.M. Devine, "Comparison of the chromium concentration on grain boundaries in sensitized stainless steel measured by analytical electron microscopy and an electrochemical technique", *Corrosion Sci*., vol. 30 (1990) 477-494.

216. **V.R. Radmilović**, G. Thomas, and S.K. Das, "Microstructure of high temperature aluminum based matrix/SiC particulate composites", *Mater. Sci. and Eng*. *A*, vol. A132 (1990) 171-179.

1989

217. **V.R. Radmilović**, A.G. Fox, R.M. Fisher, and G. Thomas, "Lithium depletion in precipitate free zones (PFZ's) in Al-Li base alloys", *Scripta Metallurgica*., vol. 23 (1989) 75-79.

218. **V.R. Radmilović**, G. Thomas, G.J. Shiflet, and E.A. Starke, "On the nucleation and growth of Al_2CuMg (S-phase) in Al-Li-Cu-Mg and Al-Cu-Mg alloys", *Scripta Metallurgica*., vol. 23 (1989) 1141-1146.

219. **V.R. Radmilović**, A.G. Fox, and G. Thomas, "Spinodal decomposition of Al rich Al-Li alloys", *Acta Metallurgica*., vol. 37 (1989) 2385-2394.

220. **V.R. Radmilović**, Đ. Drobnjak, and M.T. Jovanović, "Serrated yielding in Nb-V dual phase steel", *Mater. Sci. and Tech*., vol. 5 (1989) 908-912. ISSN: 02670836

1988

221. **V.R. Radmilović**, G. Thomas, J. Glazer, and J.W. Morris, "The dislocation pair spacing in a binary Al-Li alloy", *Inst. of Physics*, vol. 2 (1988) 467-468.

1987

222. **V.R. Radmilović** and G. Thomas, "Atomic resolution imaging in Al-Li-Cu alloy", *Journal de Physique*, vol. 48 (C3) (1987) 385-396.

B. Papers published in national journals

1. Irena Nikolić, Radomir Zejak, **Velimir R. Radmilović**, Dragoljub Blečić, and Milena Tadić, "Geopolymerization of fly ash as a possible solution for stabilization of used sandblasting rit", *Materials protection*, 53 (2012) 243-246; after corrections requested by the authors: *Materials protection*, 53 (2012) 361-364.

2. V. Ćosović, N. Talijan, A. G**rujić, J. Stajić-Tr**ošić, D. Živković, Z. Lee, and **V.R. Radmilović**, "Study of microstructure and magnetic properties of optimally annealed R/Q $Nd_{4.5}Fe_{77}B_{18.5}$*alloy", Metalurgija* (*MJoM), 15 (2009) 39-44. UDC: 669.15'781-198.* ISSN 0354-6306.

3. V. Maksimović, Z. Cvijović, and **V.R. Radmilović**, "Micro**structural char**acterization of modified commercial 2219 aluminum alloy", *Metalurgija (MJoM)*, 11 (2005) 303-308. (U*DC:669.715*.01*7.2:620.192.4=20)* ISSN 0354-6306.

4. *I. Nikolić, D. Blečić, N. B*lagojević, **V.R. Radmilović**, K. Kovačević: Fenomeni procesa kristalizacije $Al(OH)_3$ iz aluminatnih rastvora, *Metallurgy (MJoM)*, 9 (2003) 245-258; UDC: 661.862:669.712.3.065.5=861. ISSN 0354-6306.

5. V. Maksimović, M.T. Jovanović i **V.R. Radmilović**, "Efekti mikrolegiranja germanijumom u modifikovanoj leguri aluminijuma tipa 2219", *Metallurgy (MJoM)*, 8 (2002) 335-342. (UDC: 669.715-783=861) ISSN 0354-6306.

6. **V.R. Radmilović**, "High resolution electron microscopy of inorganic materials", *Bulletin de l'Academie Serbe des Sciences et des Arts*, *Classe des Sciences Mathématique et Naturelles, Sciences Naturalles*, No. 37, 115 (1998) 1-14.

7. M. Popović, E. Romhanji, **V.R. Radmilović**, V. Milenković, "Thermomechanical treatment and mechanical properties of the AlMg6.5 alloy sheet", *Metallurgy (MJoM)*, 3 (1997) 317-328.

8. M. Novović, L. Šiđanin, P. Kovač, **V.R. Radmilović**, "Some aspects of physics of strength, plasticity, and fracture in the cheap formation processes", *Metalurgija (MJoM)*, 2 (1996) 79-92. ISSN 0354-6306.

9. **V.R. Radmilović**, "Sastav i struktura intermetalnih faza tipa Al_3Zr u legurama aluminijuma" *Metalurgija (MJoM)*,, 1 (1995) 5-21. ISSN 0354-6306.

10. Lj. Kukanjac, **V.R. Radmilović**, Đ. Drobnjak, "Failure analysis of helicopter gear", *Mining., Geology, and Metallurgy*, 45 (1994) 9-12.

11. M.G. Pavlović, **V.R. Radmilović**, A. Dekanski, E. R. Stojiljković, and K. I. Popov, "Surface roughness of glossy copper galvanic layers" *Materials protection*, 34 (1993) 7-13.

12. K.I. Popov, **V.R. Radmilović**, B.N. Grgur, and M.G. Pavlović, "The morphology of copper electrodeposits. II. The mechanism of carrot-like electrodeposit formations", *J Serb.Chem.Soc.,* 59 (1994) 47.

13. B. Božić, N. Vidojević, N. Novović, and **V.R. Radmilović**, "Some specific properties of tempered Cr-Mo-Zr low alloy steel", *Glas, Classe des Sciences Techniques, l'Academie Serbe des Sciences et des Arts*, Belgrade, (1992) p. 37.

14. D. M. Dražić, S. Gojković, S. K. Zečević, and **V.R. Radmilović**, "Effect of plastic deformation on cathode processes kinetics, significant for corrosion of low-carbon steel", *Glas, Classe des Sciences Techniques, l'Academie Serbe des Sciences et des Arts*, No. 365, 29 (1991) 75-87.

15. B. Božić, N. Vidojević, N. Novović-Simović, **V.R. Radmilović**, "The characteristics of the tempering process of high-strength low-carbon low alloyed Cr-Mo-Zr steel depending on the initial structure," *Bulletin SANU*, No. 25, (1989) pp.1-19.

16. S. Matijašević, S.V. Marković, B. Jordović, and **V.R. Radmilović**, "SEM quantitative metallographic analysis of porosity in high silicon cast iron", *Foundry*, "SEM kvantitativna metalografska analiza poroznosti u visokosilicijumskom gvožđu", *Livarstvo,* 33 (1986) 29-34.

17. M. Đordjević, **V.R. Radmilović**, and P. Stojanov, "Pacemaker lead fracture", *Pacemaker Center*, 1 (1983) 1-4.

18. B. Božić, D. Mihailović, and **V.R. Radmilović**, "The change of plastic strain amplitude in a total strain controlled low-cycle fatigue of an aged aluminum alloy", *Bulletin de l'Academie Serbe des Sciences et des Arts*, Tome LXV, Class des Sciencies Techniques, Belgrade, No. 15, vol. 65 (1979) pp. 47-53.

19. B. Božić, D. Mihailović, and **V.R. Radmilović**, "The change in plasticity during low-cycle fatigue as a function aging and plastic strain amplitude of Al-Zn-Mg alloy", *Glas, Classe des Sciences Techniques, l'Academie Serbe des Sciences et des Arts,* No. 15, (1979) p. 61-70.

C. Papers presented and/or published in the proceedings of international conferences (in English)

1. **Velimir Radmilović**, "Precipitation in AlLiSc Alloys", MSE 2016 - Materials Science and Engineering International Conference; TOPIC D · CHARACTERIZATION: Symposium D01 Advanced and In-Situ Microscopies in Materials Science and Engineering; USA-GERMAN Networking Symposium; Organized by DGM · Deutsche Gesellschaft für Materialkunde; September 27 – 29, 2016, Germany. (**Invited talk**)

2. **Velimir Radmilović**, "Nonperiodic Planar & Zigzag Defects in Functional Oxide Nanowires", From Solid State to Biophysics, Cavtat (Croatia), June 4-11, 2016; Organized by Professor Laszlo Forro and Professor Davor Pavuna, EPFL, Lausanne, Switzerland. **(Invited plenary talk)**

3. **Mimo Radmilović**, "Monodispersed L12 core/shell preipitates obtained by solid state reaction", International Workshop on *Possibilities and Limitations of Quantitative Materials Modeling and Characterization 2016,* Akademie-Kues, Stiftsweg 1*, May 22 – 26, 2016,* Bernkastel-Kues, Germany; Organized by Professor Hamish Fraser, CAMM – Center for the Accelerated Maturation of Materials, The Ohio State University. **(Invited plenary talk)**

4. **Velimir R. Radmilović**, "Lithium and scandium trialuminides embedded in solid matrix", Yucomat2016, Eighteenth Annual Conference, Herceg Novi, Montenegro, September 5 – 10,

2016; Book of abstracts, p. 4; Editors: Prof. Dr. Dragan P. Uskoković and Prof. Dr. Velimir R. Radmilović; Publisher: Materials Research Society of Serbia. (**Invited plenary talk**)

5. Vuk V. Radmilović, Fei Guo, Christoph J. Brabec, Erdmann Spiecker, **Velimir R. Radmilović**, "Structural characterization of organic bulk heterojunction solar cells", Yucomat2016, Eighteenth Annual Conference, Herceg Novi, Montenegro, September 5 – 10, 2016; Book of abstracts, p. 19; Editors: Prof. Dr. Dragan P. Uskoković and Prof. Dr. Velimir R. Radmilović; Publisher: Materials Research Society of Serbia. (**Invited talk as the best oral presentation of a young scientist at Yucomat 2015**)

6. Irena Nikolić, Smilja Marković, Ljiljana Karanović, Vuk Radmilović, **Velimir Radmilović**, "Strength and durability of alkali activated slag in a sea water: influence of alkali ion", Yucomat2016, Eighteenth Annual Conference, Herceg Novi, Montenegro, September 5 – 10, 2016; Book of abstracts, p. 38; Editors: Prof. Dr. Dragan P. Uskoković and Prof. Dr. Velimir R. Radmilović; Publisher: Materials Research Society of Serbia.

7. Ljiljana M. Gajić-Krstajić, P. Zabinski, **V.R. Radmilović**, P. Ercius, M. Krstajić-Pajić, U.Č. Lačnjevac, N.V. Krstajić, N.R. Elezović, "Synthesis and characterization of Pd nanocatalyst at tungsten carbide basedsupport for fuel cells application", Yucomat2016, Eighteenth Annual Conference, Herceg Novi, Montenegro, September 5 – 10, 2016; Book of abstracts, p. 71; Editors: Prof. Dr. Dragan P. Uskoković and Prof. Dr. Velimir R. Radmilović; Publisher: Materials Research Society of Serbia.

8. **Velimir R. Radmilović**, "How Low Can We Go?"; Master Class at The Fourteenth Young Researchers' Conference Materials Sciences and Engineering, December 9-11, 2015, Belgrade, Serbia; Editor: Dr. Smilja Marković; Book of abstracts, p. 17; ISBN 978-86-80321-31-8. (**Invited plenary talk**)

9. **Velimir R. Radmilović**, "Functional Oxide Nanowires for Thermoelectric Applications", SFKM2015, The 19th Symposium on Condensed Matter Physics, 7-11 September 2015, Belgrade, Serbia; Book of abstracts, p. 44. (**Invited plenary talk**)

10. Mila N. Krstajić, Sanja I. Stevanović, Vuk V. Radmilović, Aleksandra Gavrilović-Wohlmuther, **Velimir R. Radmilović**, Snežana Lj. Gojković, Vladislava M. Jovanović, "Shape Evolution of Carbon Supported Pt Catalyst for PEMFC", Yucomat2015, Seventeenth Annual Conference, Herceg Novi, Montenegro, August 31st – September 4th , 2015; Book of abstracts, p. 78; Editors: Prof. Dr. Dragan P. Uskoković and Prof. Dr. Velimir R. Radmilović; Publisher: Materials Research Society of Serbia.

11. Ljiljana M. Gajić Krstajić, Nevenka R. Elezović, Biljana M. Babić, **Velimir R. Radmilović** Nedeljko V. Krstajić "Platinum nanocatalysts at titanium oxide based supports for low temperature fuel cell applications", Yucomat2015, Seventeenth Annual Conference, Herceg Novi, Montenegro, August 31st – September 4th , 2015; Book of abstracts, p. 77; Editors: Prof. Dr. Dragan P. Uskoković and Prof. Dr. Velimir R. Radmilović; Publisher: Materials Research Society of Serbia, 2015.

12. Irena Nikolić, Smilja Marković, Ljiljana Karanović, Vuk V. Radmilović, **Velimir R. Radmilović**, "Thermal resistance of alkali activated binders synthesized using the fly ash and steel slag", Yucomat2015, Seventeenth Annual Conference, Herceg Novi, Montenegro, August 31st – September 4th , 2015; Book of abstracts, p. 24; Editors: Prof. Dr. Dragan P. Uskoković and Prof. Dr. Velimir R. Radmilović; Publisher: Materials Research Society of Serbia.

13. Vuk V. Radmilović, Manuela Göbelt, Silke Christiansen, Erdmann Spiecker, **Velimir R. Radmilović**, "Silver nanowire base network for transparent electrode application", Yucomat2015, Seventeenth Annual Conference, Herceg Novi, Montenegro, August 31st – September 4th , 2015; Book of abstracts, p. 17; Editors: Prof. Dr. Dragan P. Uskoković and Prof. Dr. Velimir R. Radmilović; Publisher: Materials Research Society of Serbia, 2015.

14. **Velimir R. Radmilović**, "Zigzag Inversion Domain Boundaries in Functional Oxide Nanowires", Yucomat2015, Seventeenth Annual Conference, Herceg Novi, Montenegro, August 31st – September 4th , 2015; Book of abstracts, p. 5; Editors: Prof. Dr. Dragan P. Uskoković and Prof. Dr. Velimir R. Radmilović; Publisher: Materials Research Society of Serbia, 2015. (**Invited plenary talk**)

15. **Velimir R. Radmilović**, "High resolution microscopy and spectroscopy of thermoelectric nanowires", MCM, 12th Multinational Congress on Microscopy, August 23-28, 2015, Eger, Hungary. (**Invited plenary talk**)

16. C. Liebscher, **V.R. Radmilović**, U. Dahmen, M. Asta, G. Ghosh, "Hierarchical microstructure of ferritic superalloys", MC2015, Microscopy Conference DGE, German Society for Electron Microscopy, September 6–11, 2015 Georg-August-University Göttingen/Germany.

17. **Velimir R. Radmilović**, "Phonon scattering control in nanowires for thermoelectric applications", Advanced In Situ TEM/STEM, July 20 – 23, 2015, Chalmers University Workshop, Gothenburg, Sweden. (**Invited plenary talk**)

18. C. Liebscher, **V.R. Radmilović**, U. Dahmen, M. Asta, G. Ghosh, "Hierarchical microstructure of ferritic superalloys", IAMNano 2015, International Workshop on Advanced and *In-situ* Microscopies of Functional Nanomaterials and Devices, July 8 – 10, 2015, Hotel Empire Riverside, Hamburg, Germany; Book of abstracts, pp. 52-53.

19. **Velimir R. Radmilović**, "Highly monodisperse Core/shell Precipitates in AlLiSc Alloys", IAMNano 2015, International Workshop on Advanced and *In-situ* Microscopies of Functional Nanomaterials and Devices, July 8 – 10, 2015, Hotel Empire Riverside, Hamburg, Germany; Book of abstracts, pp. 37-38. (**Invited plenary talk**)

20. **V.R. Radmilović**, "Aberration corrected microscopy of functional oxide nanowires at atomic scale", "3rd Croatian Microscopy Congress," April 26-29, 2015, Zadar, Croatia. (**Invited plenary talk**)

21. **V.R. Radmilović**, "Control of ZnO nanowire structure and thermoelectric properties at atomicscale", PICO2015, April 19-23, 2015; Kasteel Vaalsbroek, Nederland; Conference organizers: Rafal Dunin-Borkowski, Joachim Mayer, and Karsten Tillmann; Book of abstracts, p. G4. (**Invited plenary talk**)

22. **V.R. Radmilović**, "Microscopy and spectroscopy of functional oxide nanowires at atomic scale", Freidrich-Alexander Univerzität, Erlangen-Nürnberg; Symposium: Advanced Electron Microscopy for Materials Research, Thursday, April 30, 2015, 2 p.m., Fraunhofer IISB. (**Invited plenary talk**)

23. Irena Nikolić, **Velimir R. Radmilović**, "Strength and shrinkage of alkali activated fly ash /slag blends at elevated temperature", *47th* International october conference on mining and metallurgy, 4– 6. oktobar 2015, Borsko jezero, Srbija; Conference Proceedings, pp. 249 –252.

24. Irena Nikolić, Radomir Zejak, Vuk Radmilović, **Velimir R. Radmilović**, "Efect of substitution of fly ash with steel slag on the mechanical properties of alkali activated mortars", 8th International Scientific Conference "Science and Higher Education in Function of Sustainable Development" 2-3 October 2015, Uzice, Serbia; Conference Proceedings, pp. 1-5.

25. Dragoljub Blečić, Irena Nikolić, **Velimir R. Radmilović**, "Strength and fire – resistance of alkali activated binders", IV International Congress: Engineering, Environment and Materials in Processing Industry, Jahorina, 4-6. mart 2015, Republika Srpska, Bosna i Hercegovina; Conference Proceedings, pp. 382 -386.

26. Devis Contarato, Nord Andresen, Marco Battaglia, Peter Denes, Dionisio Doering, Thomas Duden, John Joseph, Brad Krieger, Patrick McVittie, **Velimir R. Radmilović**, "Evaluation of CMOS imager pixel architectures for direct detection in Transmission Electron Microscopy".

27. Vuk V. Radmilović, Carlo Carraro, Petar Uskoković, Radoslav Aleksić, **Velimir R. Radmilović**, "Raman spectroscopy and electron microscopy of polymer based nanocomposites with carbon nanotubes and graphene", Sinxteen Annual Conference YUCOMAT2014, Herceg Novi, Montenegro, September 1-5, 2014; Book of abstracts, p. 92; Editors: Prof. Dr. Dragan P. Uskoković and Prof. Dr. Velimir R. Radmilović; Publisher: Materials Research Society of Serbia, 2014.

28. Ljiljana M. Gajić-Krstajić, N.R. Elezović, B.M. Babić,J. Kovač, **V.R. Radmilović**, N.V. Krstajić, "Electrochemical oxygen reduction at platinum catalyst on tin oxide based support in alkaline solution**",** Sinxteen Annual Conference YUCOMAT2014, Herceg Novi, Montenegro, September 1-5, 2014; Book of abstracts, p. 90; Editors: Prof. Dr. Dragan P. Uskoković and Prof. Dr. Velimir R. Radmilović; Publisher: Materials Research Society of Serbia, 2014.

29. I.Nikolić, I. Janković-Častvan, V.V Radmilović, D. Blečić, **V.R. Radmilović**, *Role of alkali activator chemistry on the thermal behaviour of alkali activated slag,* The 46th International October Conference on Mining and Metallurgy, 1-4. October 2014, Bor Lake, Bor (Serbia), Conference Proceedings, pp. 108-111.

24. I. Nikolić, I. Janković-Častvan, V.V. Radmilović, Lj. Karanović, S. Marković, S. Mentus, **V.R. Radmilović**, *Geopolymer materials based on the electric arc furnace slag*, YUCOMAT 2013, 2-6. septembar, Herceg Novi, Crna Gora; Book of abstracts, p. 47.

25. Irena Nikolić, I. Janković-Častvan, V.V. Radmilović, Lj. Karanović, S. Mentus, **V.R. Radmilović**, "Influence of alkali ion on the properties of alkali actvated slag**",** Sinxteen Annual Conference YUCOMAT2014, Herceg Novi, Montenegro, September 1-5, 2014; Book of abstracts, p. 11; Editors: Prof. Dr. Dragan P. Uskoković and Prof. Dr. Velimir R. Radmilović; Publisher: Materials Research Society of Serbia, 2014.

26. C. Ophus, D.H. Moreno, A. Gautam, W. Bras, U. Dahmen, **V.R. Radmilović**, "Formation of monodisperse nanoparticles in solids", Sinxteen Annual Conference YUCOMAT2014, Herceg Novi, Montenegro, September 1-5, 2014; Book of abstracts, p. 4; Editors: Prof. Dr. Dragan P. Uskoković and Prof. Dr. Velimir R. Radmilović; Publisher: Materials Research Society of Serbia, 2014. (**Invited plenary talk**)

27. **Velimir R. Radmilović**, "Planar and zigzag defects in functional oxide nanowires", XV International Conference on Electron Microscopy, EM2014, 15-18 September, 2014, Krakow, Poland; Book of abstracts, p. 21. ISBN 978-83-63663-48-3. (**Invited plenary talk**)

28. **Velimir R. Radmilović**, "How Much Do We Know About Friction At Atomistic Level?", International Conference, June 8-13, 2014, Cavtat, Dubrovnik, Croatia; Organized by Professor Laszlo Forro and Professor Davor Pavuna, EPFL, Lausanne, Switzerland. **(Invited plenary talk)**

29. Abhay Gautam, Colin Ophus, Frederic Lancon, **Velimir R. Radmilović**, and Ulrich Dahmen, "Characterization of Atomic Relaxations at Grain Boundaries in Au Using Aberration-Corrected Electron Microscopy", TMS2014 International Conference, Symposium: Solid-State Interfaces III: Toward an Atomistic-scale Understanding of Structure, Properties, and Behavior through Theory and Experiment; Organizer(s): Xiang-Yang Liu; Blas Uberuaga; Stephen Foiles; Mitra Taheri; Rampi Ramprasad; February 16-20, San Diego, California.

30. **Velimir R. Radmilović**, «», International Conference, June 9-16, 2012, Cavtat, Dubrovnik, Croatia; Organized by Professor Laszlo Forro and Professor Davor Pavuna, EPFL, Lausanne, Switzerland. (Invited plenary talk)

31. Ulrich Dahmen, Abhay Gautam, Colin Ophus, Tamara Radetić, **Velimir R. Radmilović**, Frederic Lancon, "Atomic Mechanisms of Interface Motion in Gold Bicrystals", TMS2014 International Conference, Symposium: Solid-State Interfaces III: Toward an Atomistic-scale Understanding of Structure, Properties, and Behavior through Theory and Experiment; Organizer(s): Xiang-Yang Liu; Blas Uberuaga; Stephen Foiles; Mitra Taheri; Rampi Ramprasad; February 16-20, San Diego, California. (**Invited talk**)

32. M.K. Santala, C. Ophus, M. Asta, and **V.R. Radmilović**, "Aberration-corrected S/TEM imaging and density functional theory-based models of Pt/alumina interfaces", TMS2014 International Conference, Symposium: Solid-State Interfaces III: Toward an Atomistic-scale Understanding of Structure, Properties, and Behavior through Theory and Experiment; Organizer(s): Xiang-Yang Liu; Blas Uberuaga; Stephen Foiles; Mitra Taheri; Rampi Ramprasad; February 16-20, San Diego, California.

33. R. Zejak, I. Popović, I. Nikolić, **V.R. Radmilović**, *Strength, microstructure and dyrability of steel slag based geopolymers,* Internatioanl Conference,"Meeting Point of the Science and Practice in the Fields of Corrosion, Materials and Environmental Protection" 15YuCoor , 17–20 September, 2013, Tara, Serbia, Conference Proceedings, pp. 371-375.

34. D. Blečić, I. Nikolić, **V.R. Radmilović**, *Thermal stability of electric arc furnace slag based geopolymers*, The 45th International October Conference on Mining and Metallurgy, 16-19 October 2013, Bor Lake, Bor (Serbia) pp. 128-131.

35. M. Tadić, I. Nikolić, **V.R. Radmilović**, *Comparative analysis of hydrolytic stability of slag and fly ash based geopolymers*, The 45th International October Conference on Mining and Metallurgy, 16-19 October 2013, Bor Lake, Bor (Serbia) pp 136-139.

36. **Velimir R. Radmilović**, "$L1_2$ Ordered Nano-heterostructures Embedded in Solids"; Proceed. of 45th October Conference on Mining and Metallurgy (IOC2013), 16–19 October 2013, Bor Lake, Serbia; p. 6; Editors: Nada Štrbac, Dragana Živković, and Svetlana Nestorović; Publ. University of Belgrade-Tecnical Faculty in Bor; ISBN 978-86-6305-012-9. (**Invited plenary talk**)

37. **V.R. Radmilović**, A. Gautam, C. Ophus, F. Lançon, and U. Dahmen "Atomistic view of frictionless sliding in gold thin films", Yucomat 2013, Book of Abstracts of International Materials Research Conference, p.6; September 2-6, 2013, Herceg Novi, Montenegro;

Editors: Dragan Uskoković and Velimir R. Radmilović; Publ. Materials Research Society of Serbia. (**Invited plenary talk**)

38. **V.R. Radmilović**, "Core/shell Nanostructures Embedded in Solid", MC2013 International Microscopy Conference, August 25/30, 2013, Regensburg, Germany. (**Opening invited plenary talk; EMS Lecturer award**)

39. V.R. Radmilović, "Metallic thin films for NEMS applications", 4th International Workshop on Remote Electron Microscopy and In Situ Studies, May 22-24, 2013, the Palace of the Portuguese Engineering Association in Lisbon, Portugal. (**Invited plenary talk**)

40. **V.R. Radmilović**, "Aberration Corrected Electron Microscopy of Nanoheteostructures", Workshop on Advanced Transmission Electron Microscopy (NorTEMnet): "Current Trends and Future Needs in Imaging and Spectroscopy of Devices, Materials and Nanostructures; Chalmers University of Technology, Gothenburg, Sweden, March 25th – 27th, 2013; Publ. by Department of Applied Physics, Chalmers University of Technology; Eds. Marcus Loffler and Eva Olsson, Book of abstracts, p. 17. ISBN 978-91-980300-9-9. (**Invited plenary talk**)

41. **V.R. Radmilović**, "Core/shell nanostructures: From atomic resolution imaging to first principles calculations", First international conference: Processing, characterization and application of nanostructured materials and nanotechnology, NANOBELGRADE 2012, Belgrade, September 26-28, 2012; Book of abstracts; Editors: Đorđe Janaćković and Petar Uskoković. (**Invited plenary talk**).

42. **Velimir R. Radmilović**, S. Andrews, M. Moore, P. Yang, "Atomic Resolution Microscopy of Advanced Materials for Thermoelectric Applications", Eropean Microscopy Congress, EMC2012, September 16-21, 2012, Manchester, UK. **(Invited talk)**

43. R. Zejak, I. Nikolić, D. Đurović, B.P. Mugoša, D. Blečić, **V.R. Radmilović**, *Influence of Na_2O/Al_2O_3 and SiO_2/Al_2O_3 ratios on the immobilization of Pb from electric arc furnace into the fly ash based geopolymers*, 16th International Conference on Heavy metals in the Environment, ICHMET 2012, 23-27 September Rome, Italy (E3S Web of Conferences 1, 31007, (2013)) DOI: 10.1051/e3sconf 20130131007.

44. D. Đurović, I. Nikolić, R. Zejak, M.Tadić. **V.R. Radmilović**, *Conversion of fly ash in the environmental friendly materials thorough geopolymerisation process,* 44th international October Conference on Mining and Metallurgy, IOC44, 1-3 October 2012, Bor, Serbia, pp.347-352.

45. D. Blečić, I. Nikolić, R. Zejak , M. Tadić1, **V.R. Radmilović**, *Influence of type of alkali solution on the properties of fly ash based geopolymers*, 44th international October Conference on Mining and Metallurgy, IOC44, 1-3 October 2012, Bor, Serbia, pp.353-356.

46. Hee Joon Jung, Neil P. Dasgupta, Phil B. Van Stockum, Ai Leen Koh, **Velimir R. Radmilović**, Fritz B. Prinz, Robert Sinclair, "Shape-induced Bandgap Variations within a Single Quantum Dot", 2012 MRS Fall Meeting, November 25 - 30, 2012, Hynes Convention Center, Boston, MA, USA.

47. C. Liebscher, M. Asta, **V.R. Radmilović**, U. Dahmen, "Hierarchically Structured Precipitates in a Ferritic Alloy Characterized by Diffraction Contrast and Energy Filtered Imaging", Microscopy and Microanalysis Conference, M&M2012, July 29-August 2, 2012, Phoenix, AZ.

48. **V.R. Radmilović**, "Phonon Transport Control at Atomic Level in ZnO Nanowires", From Solid State to Biophysics, International Conference, June 9-16, 2012, Cavtat, Dubrovnik, Croatia; Organized by Professor Laszlo Forro and Professor Davor Pavuna, EPFL, Lausanne, Switzerland. (**Invited plenary talk**)

49. Colin Ophus, Maarten de Jong, Mark Asta, Marcel Sluiter, Ulrich Dahmen, **Velimir R. Radmilović**, "Coherent precipitation in ternary Al alloys", 2012 TMS Annual Meeting & Exhibition, March 11-15, Orlando, Florida; Computational Thermodynamics and Kinetics: In Honor of Dr. Long-Qing Chen, EMPMD Outstanding Scientist; **(Invited talk)**

50. Colin Ophus, Maarten de Jong, Mark Asta, Ulrich Dahmen, **Velimir R. Radmilović**, "Coherent Precipitation in Ternary Al Alloys: Insights from First-Principles Modeling", MS&T'11 Conference, October 15-20, Columbus, Ohio; Session Honoring John W. Cahn, Recipient of ASM's 2011 J. Williard Gibbs Phase Equilibria Award; *Program Organizers:* Jeffrey LaCombe, Yongho Sohn, John Morral, Ursula Kattner, and Abhijeet Misra; CD volume only. **(Invited talk)**

51. Melissa Santala, **Velimir R. Radmilović**, Raquel Giulian, Mark Ridgway, Ronald Gronsky, Andreas Glaeser, "The Orientation and Morphology of Pt Precipitates within Sapphire", MS&T'11 Conference, October 15-20, Columbus, Ohio. **(Invited talk)**

52. V. Djokić, A. D. Marinković, M. Mitrić, **V.R. Radmilović**, P. Uskokovicć, R. Petrović, Dj. Janaćković, „Highly ctive rutile TiO_2 nanocrystalline photocatalysts with synergistic exposed crystal faces", 2nd International workshop: Characterization, properties and applications of nanostructured ceramics, polymers and composites, Book of Abstracts, p.49, Belgrade, Serbia, 2011.

53. V. Djokić, A. Marinković M. Mitrić **V.R. Radmilović,** P. Uskoković R. Petrović, Dj. Janaćović, „Preparation of TiO/MWCNT photocatalysts: the influence of the MWCNT oxidation method on the photocatalytic activity", 2nd International workshop: Characterization, properties and applications of nanostructured ceramics, polymers and composites, Book of Abstracts, p.50, Belgrade, Serbia, 2011.

54. **V.R. Radmilović**, C. Ophus, A. Gautam, M. Asta and U. Dahmen, "Electron Microscopy and Spectroscopy of $L1_2$ Complex Nanostructures", International Microscopy Conference FEMMS2011, Napa, September 19-23, 2011, USA. **(Invited talk)**

55. M.K. Santala, C. Ophus, M. Asta, and **V.R. Radmilović**, "Aberration-corrected HRTEM imaging and density functional theory-based models of a Pt/alumina interface"International Microscopy Conference FEMMS2011, Napa, September 19-23, USA.

56. C. Ophus, A. Tolley, A. Gautam, M.D., E.A. Marquis, U. Dahmen, and **V.R. Radmilović**, "Quantitative Composition Measurements of Atomic Columns Using STEM: Application to $L1_2$ Precipitates", *Microscopy & Microanalysis,* 17 (2011) 1262-1263; Microscopy Society of America; M&M2011, August 7-11, 2011, Nashwille, Tennessee, USA; DOI: 10.1017/S1431927611007185.

57. C. Ophus, A. Tolley, A. Gautam, M.D., E.A. Marquis, Rossell, M. Asta, U. Dahmen, and **V.R. Radmilović**, Gordon Conference 2011; Physical Metallurgy; Evolution of Metals Structures: Modeling, Characterization and Design; July 31 - August 5, 2011, Stonehill

College, Easton, MA; Chairs: Mark D. Asta, Emmanuelle A. Marquis, Dallas R. Trinkle & Peter W. Voorhees; Vice Chair: Michael J. Mills.

58. **Velimir R. Radmilović**, "HAADF imaging and analysis of interface and defect structures in $M_2O_3(ZnO)_n$ polytypoid nanowires", MC2011, Microscopy Congress, August 28-September 2, 2011, Kiel, Germany. (**Invited plenary talk)**

59. M.K. Santala, C. Ophus, M. Asta, **V.R. Radmilović**, "Aberration corrected HRTEM imaging and density functional theory-based models of a Pt/alumina interface", MCM2011, Multinational Microscopy Congress, September 4-9, 2011, Urbino, Italy; Proceedings/Ed. Elisabetta Falcieri; S.I., Societa Italiana Scienze Microscopishe; C2011, pp. 589-590.

60. **Velimir R. Radmilović**, "Imaging of Light Elements and Single-Atomic Column Compositional Analysis: Dream or Reality", MCM2011, Multinational Microscopy Congress, September 4-9, 2011, Urbino, Italy. **(Invited plenary talk)**

61. V.V. Radmilović, **V.R. Radmilović**, G. Vuković, D. Stojanović, A. Kojović, P.S. Uskoković, R. Aleksic, "The fabrication of electrospun chitosan nanofiber's mat with embedded single- and multi-walled carbon nanotubes", Yucomat 2011, Herceg Novi, Montenegro.

62. Lj. Gajić-Krstajić, N.R. Elezović, B.M. Babić, **V.R. Radmilović**, N.V. Krstajić, Lj.M. Vračar, "Preparation and characterization of Pt nanocatalyst on tungsten based support for alkaline fuel cells applications", Yucomat 2011, Herceg Novi, Montenegro.

63. **V.R. Radmilović**, S.C. Andrews, M.A. Fardy, M.C. Moore, P. Yang, "$M_2O_3(ZnO)_n$ nanowires for thermoelectric applications", Yucomat 2011, Herceg Novi, Montenegro. **(Invited plenary talk)**

64. Hee Joon Jung, Neil P. Dasgupta, Ai Leen Koh, Phil V. Stockum, Mike C. Langston, **Velimir R. Radmilović**, Fritz B. Prinz and Robert Sinclair, "Local Bandgap Change Measurement within a Dome-Shaped PbS Quantum Dot Using STEM-VEELS", 2011 MRS FallMeeting & Exhibit, November 28 - December 2, 2011, Boston, MA.

65. Sean C. Andrews, Melissa A. Fardy, Michael C. Moore, Shaul Aloni, **Velimir R. Radmilović** and Peidong Yang, "Controllable Transport Properties of ZnO-based Polytypoid Nanowires", 2011 MRS Spring Meeting & Exhibit, April 26 – 29, an Francisco, CA.

66. Michael C. Moore, Sean C. Andrews, Melissa A. Fardy, Shaul Aloni, **Velimir R. Radmilović** and Peidong Yang, "Rational Synthesis of Indium Gallium Zinc Oxide Nanowires", 2011 MRS Spring Meeting & Exhibit, April 26 – 29, an Francisco, CA.

67. S.Lj. Gojković, B.M. Babić, **V.R. Radmilović**, N.V. Krstajić, "Nb-doped TiO as a support of Pt and Pt-Ru anode catalyst for PEMFCs",Second Regional Symposium on Electrochemistry, South-East Europe, Belgrade, Serbia, June 6-10, 2010.

68. Nevenka R. Elezović, Biljana M. Babić, Ljiljana Gajić-Krstajić, **Velimir R. Radmilović**, Nedeljko V. Krstajić, Ljiljana M. Vračar, "Novel Pt based nanocatalyst at Nb doped TiO support for oxygen reduction reaction",Second Regional Symposium on Electrochemistry, South-East Europe, Belgrade, Serbia, June 6-10, 2010.

69. Wim Bras, Neville Greaves, Simon Clark, Martin Kunz, Sergey Nikitenko, Giovanni Bruno and **Velimir R. Radmilović**, "The early stages of glass ceramics devitrification", 2010 Glass & Optical Materials Division Annual Meeting, May 16-20, 2010, Corning, NY.

70. Melissa Kaarina Santala, **Velimir R. Radmilović**, Raquel Giulian, Marc S. Ridgway, Andreas M. Glaeser, and Ronald Gronsky, "HRTEM characterization of metal/oxide interfaces of Pt precipitates in sapphire",17th International Microscopy Congress (IMC17); September 19-24, 2010, Rio de Janeiro, Brazil; Eds.: G. Solorzano and W.D. Souza; Publ. Sociedade Brasileira de Microscopia e Microanalise; Proceedings, 2010, pp. -.

71. **Velimir R. Radmilović** and Ulrich Dahmen, "Imaging of lithium in complex metallic nanostructures", 17th International Microscopy Congress (IMC17); September 19-24, 2010, Rio de Janeiro, Brazil; Eds.: G. Solorzano and W.D. Souza; Publ. Sociedade Brasileira de Microscopia e Microanalise; Proceedings, 2010, pp. 84-85. (**Invited talk**)

72. Melissa Santala, **Velimir R. Radmilović**, Raquel Guilian, Mark Ridgway, Andreas Glaeser, Ronald Gronsky, "Interfacial Structure and Morphological Evolution of Platinum Nano-precipitates Embedded in Sapphire", TMS Annual Meeting, February 14-18, 2010, Seattle, WA, USA.

73. U. Dahmen, P. Denes, **V.R. Radmilović** and T. Duden, "Recent Advances in Electron Microscopy in the Context of the TEAM Project", The International Symposium on Atomic Level Characterizations for New Materials and Devices '09, December 6 – 11, 2009, Maui, Hawaii, USA. **(Invited talk)**

74. **V.R. Radmilović**, S. Habas and T. Duden, " Pt/Pd core/shell nanoheterostructures", Internation Conference on Advanced Materials, ICAM2009, September 20-25, 2009, Rio de Janeiro, Brasil; Organized by Brazil-MRS (SBPMat). (**Invited talk**)

75. **V.R. Radmilović**, M.D. Rossell, E. Marquis, M. Asta, and U. Dahmen, "Formation of monodisperse Al_3(Sc,Li) ordered precipitates in an Al-rich matrix"; Internation Conference on Advanced Materials, ICAM2009, September 20-25, 2009, Rio de Janeiro, Brasil; Organized by Brazil-MRS (SBPMat)**.** (**Invited talk**)

76. N.V.Krstajić, N.Elezović, Lj.M.Vračar, Lj.Gajić-Krstajić, **V.R. Radmilović**, "Kinetics of the Hydrogen Oxidation on Pt Modified Moox Nano-Sized Catalyst in the Presence of Carbon Monoxide", 11th Conference of the Materials Research Society of Serbia - YUCOMAT 2009, Herceg Novi, Montenegro, August 31 – September 4, 2009.

77. **V.R. Radmilović**, Z. Lee, A. Dato, K-J. Jeon, T. Richardson and M. Frenklach "Synthesis and Characterization of High-Quality Graphene", YUCOMAT2009, Herceg Novi, Montenegro. (**Invited plenary lectures**)

78. **V.R. Radmilović**, Z. Lee, C. Ophus, E. Luber, U. Dahmen and D. Mitlin, "Metallic Thin Films for MEMS/NEMS Applications", Multi national Congress for Electron Microscopy, MC2009, August 31-September 4, 2009, Graz, Austria. (**Invited talk**)

79. Z. Lee, A. Dato, K-J. Jeon, R. Erni, T. Richardson, M. Frenklach, **V.R. Radmilović**, "Atomic Resolution Imaging and Spectroscopy of Graphene Using the TEAM 0.5", MSA2009, July 25-31, 2009, Richmond, Virginia, pp. 124-125.

80. M. Watanabe, M.D. Rossell, R. Erni, **V.R. Radmilović**, U. Dahmen, "Applications of high spatial/energy resolution energy-filtering transmission electron microscopy (HREFTEM) for phase analysis of Al alloys in the aberration-corrected, monochromated TEAM instrument", Edge Meeting 2009.

81. T. Duden, V.R. Radmilović, A. Schmid, U. Dahmen, "K-space Navigation for Accurate High-angle Tilting and Control of the TEAM Sample Stage", MSA2009, July 25-31, 2009, Richmond, Virginia, pp. 1228-1229.

82. M. Rossell, M. Watanabe, R. Erni, **V.R. Radmilović**, U. Dahmen, "Quantitative Li Mapping in Al alloys by Sub-eV Resolution Energy-Filtering Transmission Electron Microscopy (EFTEM) in the Aberration-Corrected, Monochromated TEAM0.5 Instrument", MSA2009, July 25-31, 2009, Richmond, Virginia, pp. 430-431. (**Invited talk**)

83. Z. Lee, A. Dato, M. Watanabe, K-J. Jeon, R. Erni, T. Richardson, M. Frenklach, **V.R. Radmilović**, "Imaging and Spectroscopy of Graphene Sheets Using Aberration Corrected Transmission Electron Microscopy", E-MRS 2009 Spring Meeting, June 8 - 12, 2009, Strasbourg, France.

84. **V.R. Radmilović**, C Ophus, E Luber, Z Lee, U Dahmen, and D Mitlin, "Nanocrystalline – amorphous Al-Mo composite thin films", E-MRS 2009 Spring Meeting, June 8 - 12, 2009, Strasbourg, France.

85. Marco Battaglia, Dario Bisello, Devis Contarato, Peter Denes, Dionisio Doering, Piero Giubilato, Tae Sung Kim, Zonghoon Lee, Serena Mattiazzo, **Velimir R. Radmilović**, "Development of a Radiation Hard CMOS Monolithic Pixel Sensor", *2008 IEEE Nuclear Science Symposium and Medical Imaging Conference,* Vol. 1-9, (2009) pp. 2776-2779.

86. Que Anh Song Nguyen, Yash Bhargava, Thomas Devine and **Velimir R. Radmilović**, "Investigating the Structure and Morphology of Electrochemically Synthesized Titania Nanotubes via Cross-Sectional TEM and Micro-XRD", 2009 MRS Spring Meeting & Exhibit, April 13 – 17, an Francisco, CA.

87. Nguyen Thi Quynh Hoa, Hoon-Hoe Huh, Zonghoon Lee, **Velimir R. Radmilović** and Eui-Tae Kim, "Visible-Light Photocatalysis of Sr-Doped $TiO_{2-\delta}$ Nanobelts Synthesized by Chemical Vapor Deposition", 2009 MRS Spring Meeting & Exhibit, April 13 – 17, an Francisco, CA.

88. Nguyen Thi Quynh Hoa, Young-Soo Park, Zonghoon Lee, **Velimir R. Radmilović** and Eui-Tae Kim, "Room-Temperature Ferromagnetism of Undoped and Co-Doped $TiO_{2-\delta}$ Nanobelts Synthesized by Metallorganic Chemical Vapor Deposition.",2009 MRS Spring Meeting & Exhibit, April 13 – 17, an Francisco, CA.

89. Elizabeth Withey, Jia Ye, **Velimir R. Radmilović**, Shigeru Kuramoto, Andrew Minor1, Daryl Chrzan1, John Morris, "In Situ TEM Nanocompression Testing of Gum Metal", TMS Annual Meeting, San Francisco, February 15-19, 2009.

90. Zonghoon Lee, **Velimir R. Radmilović**, Byungmin Ahn, Enrique Lavernia, Steven Nutt, "Tensile Deformation and Fracture Mechanism of Bimodal Al-Mg Alloy", TMS Annual Meeting, San Francisco, February 15-19, 2009.

91. U. Dahmen, M. D. Rossell, R. Erni, M. Watanabe, and **V.R. Radmilović**, "High Resolution Electron Microscopy of Core/Shell Precipitates in Al-Based Alloys", TMS Annual Meeting, San Francisco, February 15-19, 2009. (**Invited talk**)

92. N. Nelson-Fitzpatrick, C. Ophus, E. Luber, Z. Lee, **V.R. Radmilović**, D. Mitlin, S. Evoy, "Gold-Tantalum Nanocomposites as Structural Material for Nanomechanical Sensors", MRS Fall Meeting, Boston, December 1-5, 2008.

93. Zonghoon Lee, **V.R. Radmilović**, B. Ahn, E. J. Lavernia and S.R. Nutt, "Tensile Deformation and Fracture Mechanism of Bimodal Al-Mg Alloy", 2009 TMS Annual Meeting, San Francisco, California: February 15-19, 2009.

94. M. Santala, A. Glazer, R. Gronsky and **V.R. Radmilović**, "Orientation Relationships and Morphologies of Pt Precipitates in Sapphire", Materials Science & Technology 2008 Conference and Exhibit (MS&T '08), October 5-9, 2008, Pittsburgh, Pennsylvania.

95. U. Dahmen and **V.R. Radmilović**, "Structure and Phase Transformations of Nanophases Embedded in Solids", Electron and Scanning Probe Microscopies; Department of Energy, Office of Basic Energy Sciences, Division of Materials Sciences and Engineering; 2008 Contractor's Meeting, Warrenton, Virginia, October 26 – 28, 2008; pp. 177 – 180. (**Invited talk**)

96. **V.R. Radmilović**, M.D. Rossell, A. Tolley, E.A. Marquis, R. Erni and U. Dahmen, "$L1_2$ core/shell nanostructures embedded in solids", EM'08 International Conference, Zakopane, Poland (2008). (**Invited talk**)

97. **V.R. Radmilović**, M.D. Rossell, R. Erni and U. Dahmen, "Monodispersed Al_3(LiScZr) core/shell nanostructuresembedded in Al rich matrices", Yucomat 2008, Herceg Novi, Montenegro. (**Invited talk**)

98. U. Dahmen, M.D. Rossell, R. Erni and **V.R. Radmilović**, "Aberration-Corrected Electron Microscopy of Li-Rich Precipitates in Al-Li-Sc-Zr Alloys – Some Initial Results from the TEAM 0.5 Microscope", AMTC Conference , Japan (2008). (**Invited talk**)

99. U. Dahmen, R. Erni, C. Kisielowki, **V.R. Radmilović**, Q. Ramasse, A. Schmid,T. Duden, M. Watanabe, A. Minor, and P. Denes, "An update on the TEAM project - first results from the TEAM 0.5 microscope, and its future development", M. Luysberg, K. Tillmann, T. Weirich (Eds.), EMC 1 Instrumentation and Methods, pp. 3–4, (2008). (**Invited talk**)

100. E. Spiecker, **V.R. Radmilović**, U. Dahmen, "Statistical Tomography of 3D Thin Film Structure using Transmission Electron Microscopy", 14th European Microscopy Congress, Aachen, September 1 - 5, 2008, Germany; Richter, S. and Schwedt, A. (Eds.) EMC 2008, 2, pp. 367 – 368.

101. **V.R. Radmilović**, M.D. Rossell, A. Tolley, E.A. Marquis, R. Erni and U. Dahmen, "Core/Shell Precipitates in Al-Li-Sc-Zr Alloys", EMC 2008, 14th European Microscopy Congress, Aachen, September 1 - 5, 2008, Germany.

102. Susan Habas, Hyunjoo Lee, **Velimir R. Radmilović**, Gabor A. Somorjai, Taleb Mokari and Peidong Yang, "Shape Control and Selectivity of Multi-Material Heterostructures for Catalytic and Energy Applications", MRS Spring Meeting, San Francisco, 2008.

103. Z. Lee, A. Dato, J. Phillips, M. Frenklach, and **V.R. Radmilović**, "STEM Parallel Beam Nano-diffraction of Graphene", M&M 2008, Albaquerque, New Mexico.

104. D. Bronfenbrenner, R. Gronsky, **V.R. Radmilović**, S. McHugo, "Characterization of As-Deposited Crystalline NiTi Thin Films", *SMST-2006 - Proceedings of the International Conference on Shape Memory and Superelastic Technologies* , 2008, pp. 357-362.

105. M.D. Rossell, R. Erni, A. Tolley, E.A. Marquis, **V.R. Radmilović**, and U. Dahmen, "The Atomic Structure of Core-Shell Precipitates in Al-Li-Sc-Zr Alloys by Analytical and Aberration-Corrected Transmission Electron Microscopy", M&M 2008, Albaquerque, New Mexico.

106. D. Mitlin, J. Haagsma, M. Danaie, B. Shalchi, E. Luber, C. Ophus, H. Fritzsche, **V.R. Radmilović**, U. Dahmen, "Hydrogen Sorption Properties and the Microstructureof Mg-Al Alloys and of MgH2 - Carbon Nanotube Composites", Fall meeting, Boston, November 6-30, 2007.

107. J.T. McKeown, J.D. Sugar, **V.R. Radmilović**, A.M. Glaeser, R. Gronsky, "Alloy Phase Patterning by Constrained Spinodal Decomposition", MRS 2007, Fall meeting, Boston, November 6-30, 2007.

108. M.V. Brougham, C. Ophus, S. Melenchuk, J. Luo, E. Luber, M. Danaie, F. Forbes, **V.R. Radmilović**, Z. Lee, D. Mitlin, "Multifunctional Ultracomposites: Piezoelectric Materials Grown on Binary Metallic Glasses", MRS 2007, Fall meeting, Boston, November 6-30, 2007.

109. A. Dato, **V.R. Radmilović**, Z. Lee, J. Phillips, M. Frenklach, "Nanocarbon Synthesis in an Atmospheric-Pressure Microwave Plasma Reactor", 5th WSS/CI US Combustion Meeting (March, 2007).

110. **V.R. Radmilović**, "Novel Nanocomposite Thin Films for NEMS Application", Yucomat 2007, Herceg Novi, Montenegro, September 4-9, 2007. **(Invited plenary talk)**

111. **V.R. Radmilović**, "Nanostructures Embedded in Solids", 3rd Serbian Congress for Microscopy, Belgrade, Serbia, September 25-28, 2007. (**Invited talk**)

112. **V.R. Radmilović**, "Quantitative Ex-Situ Tensile and In-situ Compression Testing of Al-Mo Thin Films", 3rd DPSM (International Conference on Deformation, Processing and Structure), Belgrade, September 21, 2007. (**Invited talk**)

113. **V.R. Radmilović**, J. Ye, Z. Lee, A.M. Minor, and U. Dahmen, "Quantitative in-Situ Uniaxial Compression Testing in a Transmission Electron Microscope", Proceed. of 8 MCM, Prague, (2007) MP/37.

114. David Mitlin, Julian Haagsma, Erik Luber, Colin Ophus, Reza Mohammadi, Zonghoon Lee, Ulrich Dahmen and **Velimir R. Radmilović**, "Hydrogen Sorption Properties and the Microstructure of the Mg-Al-X System", MRS Spring Meeting, San Francisco, April 9-13, 2007.

115. **Velimir R. Radmilović**, Zonghoon Lee, Colin Ophus, Reza Mohammadi, Erik Luber, Nathan Nelson-Fitzpatrick, Stephane Evoy, Ken Westra, Brian Olsen, Chris Holt, Ulrich Dahmen and David Mitlin, "Fabrication and Testing of NEMS Components Made From

Nanocomposite Ni-Mo and Al-Mo Films", MRS Spring Meeting, San Francisco, April 9-13, 2007.

116. David Mitlin, Colin Ophus, Zonghoon Lee, Ken Westra, Reza Mohammadi, Erik Luber, Brian Olsen, Ulrich Dahmen and **Velimir R. Radmilović**, "Integrated AFM Cantilevers-tips Synthesized From Metal Nanocomposites", MRS Spring Meeting, San Francisco, April 9-13, 2007.

117. N. Nelson-Fitzpatrick, C. Ophus, E. Luber, L. Gervais, D. Mitlin, Z. Lee, **V.R. Radmilović**, U. Dahmen and S. Evoy, "Gold-Tantalum Nanocomposite as Structural Material for Resonant NEMS Biosensing Cantilevers", MRS Spring Meeting, San Francisco, April 9-13, 2007.

118. David Mitlin, Chris Gilkison, Kenneth Bosnick, Colin Ophus, Christopher Harrower, Reza Mohammadi, Ken Westra, Zonghoon Lee, Ulrich Dahmen and **Velimir R. Radmilović**, "Hydrogen Detection using NEMS Devices Fabricated from Tunable Microstructure Pd-Ta Nanocomposites", MRS Spring Meeting, San Francisco, April 9-13, 2007.

119. Joseph T McKeown, Joshua Sugar, **Velimir R. Radmilović**, Andreas M Glaeser and Ronald Gronsky, "Effects of Ceramic-Metal Interface Structure and Energetics on Phase Patterning by Constrained Spinodal Decomposition", MRS Spring Meeting, San Francisco, April 9-13, 2007.

120. **V.R. Radmilović**, Z. Lee, C. Ophus, L.M. Fischer, N. Nelson-Fitzpatrick, K.L. Westra, S. Evoy, U. Dahmen, and D. Mitlin, "Ultra-hard Nanostructured Al-Mo Thin Films for NEMS Application", Aluminum 2006 Int. Conference, September 19-22, Essen, Germany.

121. **V.R. Radmilović**, "(111) Fiber Texture Formation in 3C-SiC Films on Si(100) Substrates", ICSFS-13, 6-10 November, 2006, Bariloche, Argentina. (**Invited talk**)

122. **V.R. Radmilović**, "Core-shell structures and precipitation kinetics of $Al_3(Sc,Zr)$ $L1_2$ intermetallic phase in al-rich alloy, 4th Balkan Conference on Metallurgy, Zlatibor, September 27-29, 2006, Zlatibor, Serbia. **(Invited plenary talk)**

123. J.R. Jinschek, K.J. Bathenburg, H.A.Calderon, R. Kilaas, **V.R. Radmilović**, and C. Kisielowski, "Atomic Resolution Electron Tomography Based on Discrete Mathematics", Microsc Microanal 12(Supp 2), 2006, pp. 1566-1567 CD.

124. D. Bronfenbrenner, **V.R. Radmilović**, S. McHugo, R. Gronsky, "Characterization of As-Deposited Crystalline NiTi Thin Films", Microscopy and Microanalysis, vol. 12 (Supp 2), 2006, pp. 708-709 CD.

125. J. T. McKeown, J. D. Sugar, **V.R. Radmilović**, A. M. Glaeser, and R. Gronsky, "Spinodal Decomposition of Geometrically Constrained CuNiFe Thin Films", Microsc Microanal 12(Supp 2), 2006, pp. 522-523 CD.

126. **V.R. Radmilović**, M. Law, P. Yang, A. Radenović and C. E. Nelson, "EFTEM Imaging of ZnO-TiO2 Core-Shell Nanowires and TiO2 Nanotubes", Microsc Microanal 12(Supp 2), 2006, pp. 474-475 CD.

127. D. Bronfenbrenner, **V.R. Radmilović**, S. McHugo, A. Pelton and R. Gronsky, "Characterization of As-Deposited Crystalline Thin Film NiTi", The International

Conference on Shape Memory and Superelastic Technologies, May 7-11, 2006, Asilomar Conference Grounds, Pacific Grove, California USA.

128. N. Nelson-Fitzpatrick, L.M. Fischer, S. Evoy, C. Ophus, Y. Wang, D. Mitlin, Z-H. Lee, **V.R. Radmilović** and U. Dahmen, "Fabrication and Characterization of Ultra Thin Resonant Nanocantilevers in Aluminium-Molybdenum Composites", *Modeling and Simulation of Microsystems*, An Interdisciplinary Integrative Forum on Modeling, Simulation and Scientific Computing in the MEMS, Microelectronic, Semiconductor, Sensors, Materials and Biotechnology fields.,May 7 - 11, 2006, Boston, Massachusetts.

129. Thomas M Devine, Yash Bhargava, Shawn Thorne, **Velimir R. Radmilović**, "Synthesis, Structure and Properties of NiO Nanowires", The Materials Science & Technology, MS&T'06, October 15-19, Cinncinati. (**Invited talk)**.

130. Nathaniel Nelson-Fitzpatrick, Colin Ophus, Yongliang Wang, David Mitlin, ZongHoon Lee, **Velimir R. Radmilović**, Ulrich Dahmen and Stephane Evoy, "Fabrication and Characterization of Ultra Thin Resonant Nanocantilevers in Aluminium-Molybdenum Composites", MRS 2006, Spring meeting, San Francisco.

131. Reza Mohammadi, Colin Ophus, Larry Kostiuk, Stephane Evoy, Ken Westra, Lee M. Fischer, Yongliang Wang, ZongHoon Lee, **Velimir R. Radmilović**, Ulrich Dahmen and David Mitlin, "Gas-Sensor Cantilevers Synthesized from Ni-V-Zr Nanocomposites", MRS 2006, Spring meeting, San Francisco.

132. Joshua D. Sugar, Joseph T. McKeown, **Velimir R. Radmilović**, R. Ramesh, Andreas M. Glaeser, & Ronald Gronsky, "A Novel Approach to Model Studies of Volumetrically Constrained Spinodal Decomposition", MS&T meeting Oct 15-19, Cincinnati.

133. **Velimir R. Radmilović**, Michael K. Miller, David Mitlin and Ulrich Dahmen, "Elastic-Strain Induced Cluster Formation in Al-Si-Ge Alloys", IFES06, Guilin, China July 17-20, 2006.

134. Erdmann Spiecker, **Velimir R. Radmilović** and Ulrich Dahmen, „Novel Double-Wedge Technique for Quantitative Analysis of 3-D Structure in Thin Films", International Microscopy Conference, IMC16, Sapporo, Japan, 2006. (**Invited talk**)

135. J. T. McKeown, J. D. Sugar, **V.R. Radmilović**, A. M. Glaeser, and R. Gronsky, "Spinodal Decomposition of Geometrically Constrained CuNiFe Thin Films", Microscopy and Microanalysis 2006, Chicago.

136. A. Tolley, **V.R. Radmilović**, U. Dahmen, "Evolución de la microestructura en aleaciones de Al-Cu-Si-Ge y su relación con las propiedades mecánicas" (Evolution of microstructure in Al-Cu-Si-Ge alloys and its relation to mechanical properties); Oral presentation at: First workshop on Mechanical Properties, Tandil, Argentina, 27-29 April 2005.

137. C. Ophus, D. Mitlin, **V.R. Radmilović**, S. Evoy, L. Fischer, and U. Dahmen, "Aluminum-Molybdenum Nanocomposites for MEMS and NEMS Applications", AVS, Fall 2005.

138. E.A. Stach, D. Ge, M. Jin, A. Minor, J.W. Morris, Jr., V. Gopal, and **V.R. Radmilović**, "Thin Films Stresses and Mechanical Properties XI", Spring 2005 MRS meeting, April 2005.

139. M.L. Taheri, E. Stach, **V.R. Radmilović**, H. Weiland, A.D. Rollett, "In-situ electron microscopy studies of the effect of solute segregation on grain boundary anisotropy and mobility in an Al-Zr alloy", Electron Microscopy of Molecular and Ato Quantitative in-Situ Uniaxial Compression Testining at nm-Scale Mechanical Behavior, Chemistry and Structure. Symposium. Materials Research Society. 2005, pp.187-93. Warrendale, PA, USA.

140. Mitra L. Taheri, Eric Stach, **Velimir R. Radmilović**, Hasso Weiland and Anthony D. Rollett, "The Impact of Length and Time Scale Limitations on Solute Drag Theory During Experiment and Modelling of Recrystallization in Aluminum Alloys", MRS Spring Meeting, San Francisco, 2005.

141. **V.R. Radmilović**, R. Kilaas and U. Dahmen, "Structure and Morphology of Al-Matrix-Al_2CuMg-Precipitate Interface", EUROMAT99; Published in: *Interface Controlled Materials, Volume 9 (2005) 261-266*; Editor(s): M. Rühle, H. Gleiter; Wiley-VCH Verlag GmbH, Weinheim; DOI: 10.1002/352760622X; PrintISBN: 9783527301911; Online ISBN: 9783527606221.

142. **V.R. Radmilović**, "Core-shell structures in a precipitate-hardened Al-Sc-Zr alloys", Seventh Yugoslav Materials Research Society Conference, "YUCOMAT 2005", Herceg-Novi, September 12-16, 2005. (**Invited plenary lectures**)

143. **V.R. Radmilović**, A. Tolley and U. Dahmen, "The effect of Zr on Structure, Composition, and Precipitatation Kinetics of Al_3(Sc, Zr) Phase in Al Rich Alloys", European Congress on Advanced Materials and Processes, EUROMAT 2005, 5-8 September, 2005, Prague, Czech Republic.

144. Vesna Maksimović, Zorica Cvijović, **Velimir R. Radmilović**, "Microstructural Characterization of Modified Commercial 2219 Aluminum Alloy", International Conference on Deformation Processing and Structure of Materials, 26-28 May, 2005, Belgrade, Serbia and Montenegro.

145. **V.R. Radmilović**, A. Tolley and U. Dahmen, "HREM and HAADF Imaging of Al_3(Sc,Zr) Core/Shell Structure", Microsc. & Microanal., 11 (Suppl 2) 2005, pp. 1712-13.

146. P. Denes, JM Bussat, H. von der Lippe, **V.R. Radmilović**, "High-Speed, High-DQE Detectors For Electron Microscopy", Microsc Microanal 11(Suppl 2), 2005, pp. 1482-83. (**Invited talk**)

147. **V.R. Radmilović**, "(111) fiber texture formation in 3C-SiC films deposited on Si(001) substrates", IX Conference of the European Ceramic Society, 19-23 June, 2005, Portoroz, Slovenia. (**Invited talk**)

148. A. Tolley, **V.R. Radmilović** and U. Dahmen, "Coarsening kinetics in Al-Sc-Zr alloys", Solid-solid phase transformations in Inorganic materials 2005, Edited by: J.M. Howe, D.E. Laughlin, J.K. Lee, U. Dahmen, and W.A. Soffa, TMS, 2005, pp. 785-790.

149. D. Mitlin, **V.R. Radmilović**, U. Dahmen, "Overcoming the Solubility Problem Through High-Rate Co-Evaporation of Al-Si" Solid-solid phase transformations in Inorganic materials 2005, Pointe Hilton Resort at Squaw Peak, Phoenix, May 29-June 3, 2005. Invited talk.

150. J.M.K. Wiezorek, C. Yanar, E.A. Stach, **V.R. Radmilović** and W.A. Soffa, "Hybrid displacive-diffusional transformation in manganese-aluminum base alloys", Solid-solid phase transformations in Inorganic materials 2005, Edited by: J.M. Howe, D.E. Laughlin, J.K. Lee, U. Dahmen, and W.A. Soffa, TMS, 2005, pp. 523-528.

151. J. R. Jinschek, H. A. Calderon, K. J. Batenburg **V.R. Radmilović** and Ch. Kisielowski, "Discrete tomography of Ga and InGa particles from HREM image simulation and exit wave reconstruction", Electron Microscopy of Molecular and Atom-Scale Mechanical Behavior, Chemistry and Structure. Symposium. Materials Research Society. 2005, pp.99-104. Warrendale, PA, USA.

152. J. R. Jinschek, H. A. Calderon, K. J. Batenburg **V.R. Radmilović** and Ch. Kisielowski, "Discrete Tomography of Ga and InGa Particles from HREM Image Simulation and Exit Wave Reconstruction", Mater. Res. Soc. Symp. Proc. Vol. 839 (2005) P451-P455.

153. Cagatay Yanar, Eric Stach, **Velimir R. Radmilović**, William Soffa and Jorg M. K. Wiezorek, "In-situ Observations of Twin Formation Modes in $L1_0$-Ordered Intermetallic MnAl", Mater. Res. Soc. Symp., 2005, Boston, USA.

154. Jorg M. K. Wiezorek, Cagatay Yanar, Eric Stach, **Velimir R. Radmilović** and William Soffa, "Observation of a Hybrid Displacive-Diffusional Ordering Phase Transformation Mode in Near Equiatomic MnAl Alloys during in-situ TEM Heating Studies", Mater. Res. Soc. Symp., 2005, Boston, USA.

155. David Mitlin, Tsung-Yu Pan, Michael L. Santella, Zhili Feng and **Velimir R. Radmilović**, "The Effect of Spot Friction Welding (SFW) Parameters on the Strength and the Microstructure of Aluminum 6111-T4 Lap Joints", TMS Annual Meeting, 2005, San Francisco, CA. (**Invited talk**)

156. **V.R. Radmilović**, "(111) fiber texture formation in 3C-SiC films deposited on (100) Si substrate", European Ceramic Society Conference, Portoroz, Slovenia, June 17-24, 2005. **Invited talk.**

157. William Soffa, Jorg Wiezorek, Cagatay Yanar and **Velimir R. Radmilović**, "Hybrid diffusional-displacive transformation in manganese-aluminum-base alloys"", Solid-Solid Phase Transformations in Inorganic Materials 2005, Phoenix, Arizona. (**Invited talk**)

158. D. Mitlin, C. Ophus, **V.R. Radmilović**, T.J. Richardson and U. Dahmen, "Ultra-Hard Al-Si Nanocomposites Synthesized by High-rate Co-evaporation", AVS 52nd International Symposium and Exhibition, Boston, October 30-November 4, 2005, Boston, USA.

159. **V.R. Radmilović**, D. Mitlin, U. Dahmen, Nano-Structured Ultra-Hard Al-Si Films Displaying Elevated Temperature Stability, TMS Annual Meeting, 2005, San Francisco, CA. (**Invited talk**)

160. Arnaud Grosjean, Olivier Sanseau, **Velimir R. Radmilović**, Alain Thorel, "Reactivity and diffusion between $La_{0.8}Sr_{0.2}MnO_3$ and ZrO_2 at interfaces in SOFC cores by tem analysis on fib samples tape-casting", International Conference on Solid State Ionics, Baden-Baden July 17-22, 2005, Proceedings of the 15th International Conference on Solid State Ionics, Part I, pp. 1977-1980.

161. Shawn A. Thorne, Yash V. Bhargava, Todd S. Mintz, **Velimir R. Radmilović**, Yuri Suzuki, Thomas M. Devine, "Novel method for the electrochemical synthesis of nickel-rich oxide nanowires", 2005 NSTI Nanotechnology Conference and Trade Show. NSTI Nanotech 2005. Nano Science and Technology Institute. Part vol.2, 2005, pp. 630-3. Cambridge, MA, USA.

162. Yash V. Bhargava, Shawn A. Thorne, Todd S. Mintz, Tzipi Cohen Hyams, **Velimir R. Radmilović**, Yuri Suzuki, Thomas M. Devine, "Synthesis of Magnetic Self-Assembled Nickel-Rich Oxide Nanowires using a Novel Electrochemical Process", S7.4.1 Mater. Res. Soc. Symp. Proc. Vol. 877E © 2005 Materials Research Society, pp. S.7.4.1-S7.4.6.

163. D. Mitlin, **V.R. Radmilović**, U. Dahmen, and J.W. Morris, Jr., "Al-Cu-Si-Ge: A New High Strength Aluminum Alloy", *TMS Annual Meeting*, 2003, San Diego, CA.

164. J.T. Robinson, J.A. Liddle, A.M. Minor, **V.R. Radmilović**, and O.D. Dubon, "Directed assembly of Ge islands grown on Au-patterned Si(100)," Proceedings of 27th International Conference on the Physics of Semiconductors, Flagstaff, AZ July 26-30, 2004, 609-10.

165. J.T. Robinson, J.A. Liddle, A. Minor, **V.R. Radmilović** and O.D. Dubon, "Directed assembly of Ge islands grown on Au patterned Si(100)", APS March Meeting, Montreal, Canada. 2004.

166. A. Tolley, **V.R. Radmilović**, U. Dahmen, "On the Effect of Zr on Precipitate Evolution in Al-Sc-Zr alloys", Anales Jornadas CONAMET / SAM 2004, 571-574, 2004.

167. J.T. Robinson, A. Minor, **V.R. Radmilović**, J.A. Liddle, and O.D. Dubón, "Directed assembly of Ge islands on Au-patterned Si", MRS, Boston, MA, 2004.

168. J.T. Robinson, J.A. Liddle, A.M. Minor, **V.R. Radmilović**, O.D. Dubon, "Directed assembly of Ge islands grown on Au-patterned Si(100)", AIP Proceedings of the 27th International Conference on the Physics of Semiconductors, eds. J. Menendez and C.G. Van de Walle (Springer, New York 2005), pp. 609-610.

169. J.T. Robinson, A. Minor, **V.R. Radmilović**, D. Walko, J.A. Liddle, and O.D. Dubón, "Metal Mediated Assembly of Ge island arrays using Au patterned Si", APS March Meeting, Los Angeles, CA 2005.

170. J.T. Robinson, A. Minor, **V.R. Radmilović**, J.A. Liddle, and O.D. Dubon, "Ordering and Morphological Evolution of Ge Islands on Metal Patterned Si," 16th American Conference on Crystal Growth and Epitaxy, Big Sky, Montana, July 12, 2005.

171. D. Mitlin, A. Misra, **V.R. Radmilović**, R.G. Hoagland, M. Nastasi, H. Kung and J.P. Hirth, "Analysis of Misfit Dislocations in Epitaxial Ni-Cu Bilayers", *TMS Annual Meeting*, 2003, San Diego, CA.

172. A. Tolley, **V. R. Radmilović** and U. Dahmen, *"Solute Segregation In Al_3(Sc, Zr) Intermetallic Phase In Al-Rich Alloys";* The thirteenth European Microscopy Congress, Antwerp, Belgium, August 22 - 27, 2004, Volume II, pp. 593-594.

173. Vidyut Gopal, Eric A. Stach, and **Velimir R. Radmilović**, "Additive Nanopatterning by Platinum Deposition in a Dual Beam FIB", Microsc Microanal 10 (Suppl 2), 2004, pp. 1120-1121.

174. A. M. Minor, F. Allen, **V.R. Radmilović**, E.A. Stach and T. Schenkel, "Nanoscale holes formed by in situ thin film deposition in a FIB", Microsc. and Microanal., 10 (Suppl 2), 2004, pp. 1118-1119.

175. J.R. Jinschek, K.J. Batenburg, H.A. Calderon, D. Van Dyck, F-R. Chen, **V.R. Radmilović**, C. Kisielowski, "Prospects for Bright Field and Dark Field Electron Tomography on a Discrete Grid, Focused Interest Group (FIG) meeting: Materials Research in an Aberration-free Environment, Microscopy & Microanalysis 2004, Savannah, Ga., Aug. 2004. (**Invited talk**)

176. J.R. Jinschek, K.J. Batenburg, H.A. Calderon, D. Van Dyck, F-R. Chen, C. Kisielowski, **V.R. Radmilović**, " Prospects for Bright Field and Dark Field Electron Tomography on a Discrete Grid, Microscopy and Microanalysis Vol.10 (Suppl.3) 44-45 (2004). I**nvited paper.**

177. J.R. Jinschek, **V.R. Radmilović**, Ch. Kisielowski, "FIB Preparation for HRTEM: GaN Based Devices", Microsc Microanal 10 (Suppl 2), 2004, pp. 1142-1143.

178. E.A. Stach,V. Gopal, M. Jin, D.H. Alsem, M.J. Williamson, A. Minor, **V.R. Radmilović**, C.L Muhlstein, J.W. Morris, Jr., and R.O. Ritchie, "Using the electron microscope to explore reliability in microelectromechanical systems and nanostructured materials", Microscopy & Microanalysis, 10 (Suppl 2), 2004, pp. 354-355.

179. S. Bals, **V.R. Radmilović** and C. Kisielowski, "TEM Annular Objective Apertures Fabricated by FIB", Microsc Microanal 10 (Suppl 2), 2004, pp. 1148-1149.

180. A. Tolley, **V.R. Radmilović** and U. Dahmen, "TEM Analysis of Grain Boundary Precipitate-Free-Zones (PFZs) in AlCuSiGe Alloy", Microsc&Microanal 2004; (Suppl 2), 2004, pp. 313-314; Savannah, Georgia, August 1 – 5.

181. **V.R. Radmilović**, "Ultra-hard nanostructured Al-Si thin films", Sixth Yugoslav Materials Research Society Conference, "YUCOMAT 2004", Herceg-Novi, September 13-17, 2004. **(Invited plenary talk)**

182. M.A. O'Keefe and **V.R. Radmilović,** , European Congress on Electron Microscopy-ECM 2004, Antwerp, 2004, Volume I, pp. 385-386.

183. S.-J. Park, **V. R. Radmilović**, E. A. Stach, A. Persaud, J. Nilsson, and T. Schenkel, "Formation and characterization of nanopores", submitted to the AVS Nanoscience and Bionanoscience Research Meeting, June 11th, 2003, Berkeley, CA.

184. David Mitlin; Amit Misra; Michael Nastasi; **Velimir R. Radmilović**; Richard Hoagland; David J. Embury; J. P. Hirth; Terence E. Mitchell, "Formation of Misfit Dislocations in Nano-Scale Ni-Cu Bilayer Films", TMS, Spring Conference 2004, Charlotte, NC.

185. V. Maksimović, S. Zec, M.T. Jovanović and **V.R. Radmilović**, "Aging of a commercial Al-Cu-Si based alloy modified with germanium ", Proc. YUCOMAT 2003.

186. Tomutsa, L. and **V.R. Radmilović**, "Focussed ion beam assisted three-dimensional rock imaging at submicron scale"; Proceedings of the 2003 International Symposium of the Society of Core Analysts, Pau, France, September 21-24, 2003.

187. T. Schenkel, E. A. Stach, **V.R. Radmilović**, S.-J. Park, and A. Persaud, "Formation of a few nanometer wide holes in membranes with a dual beam FIB", EIPBN 2003, 47th International Conf. on electron, ion, proton beam technology and nanofabrication, Tempa 2003.

188. V. Gopal, E.A. Stach, and **V. R. Radmilović**, "Deposition of metallic nanowires by electron- and ion-beam assisted decomposition", "Radiation Effects and Ion Beam Processing of Materials", Fall 2003 Materials Research Society Meeting, December 2003, Boston, MA.

189. E.A. Stach, **V.R. Radmilović**, D. Deshpande, A. Malshe, D. Alexander, and D. Doerr, "FIB-TEM Characterization of Surface and Sub-Surface Defects Induced Into Lithium Niobate by a Femtosecond Laser"; Paper presented at Microscopy and Microanalysis 2003 in San Antonio, Texas, USA, August 3 - 7, 2003 (MSA'2003), *Microscopy and Microanalysis* vol. 9, issue S02, pp. 876-877CD.

190. **V.R. Radmilović**, Di Gao, R. Maboudian, and U. Dahmen, "Growth Mechanism of (111)-Textured 3C-SiC Films on Si(100) Substrates", Paper presented at Microscopy and Microanalysis 2003 in San Antonio, Texas, USA, August 3 - 7, 2003 (MSA'2003), *Microscopy and Microanalysis* vol. 9, issue S02, pp. 664-665CD.

191. William A. Soffa, Cagatay Yanar, **Velimir R. Radmilović**, Eric A. Stach, Jorg M.K. Wiezorek, "Diffusional and Displacive Modes of Transformation in the Formation of the Tau-Phase in Ferromagnetic Manganese-Aluminum Alloys", October 6-10, 2002 TMS FALL MEETING 2002 · Columbus, Ohio.

192. William A. Soffa, Cagatay Yanar, Eric A. Stach, **Velimir R. Radmilović**, Jorg M.K. Wiezorek, "Mechanisms of Twinning in the Ferromagnetic Phase in Manganese-Aluminum Alloys", October 6-10, 2002 TMS FALL MEETING 2002 · Columbus, Ohio.

193. **V.R. Radmilović**, N.M. Marković and P.N. Ross, "Structure-property relations in Pt-Mo electrocatalysts", ICEM-15, Durban 2002, PP. 347-348.

194. **V.R. Radmilović**, U. Dahmen, B. Dracup, P. Turchi and J.W. Morris, "TEM and CALPHAD assisted aluminum alloy design", ICEM-15, Durban 2002, PP. 659-660.

195. Cagatay Yanar, Eric A. Stach, **Velimir R. Radmilović**, William A. Soffa, and Jorg M.K. Wiezorek, "Evolution of microstructure and defect structure in ferromagnetic manganese-aluminium base intermetallics", ICEM-15, Durban 2002, PP. 679-680.

196. U. Dahmen, C.J.D. Hethrington, **V.R. Radmilović**, E. Jonson, S.Q. Xiao, and C.P., "TEM Observation on the Role of Twinning in the Evolution of Microstructures", ICEM-15, Durban 2002, PP. 131-132.

197. V. Stamenković, T.J. Schmidt, U.A. Paulus, **V.R. Radmilović**, N.M. Marković, and P.N. Ross, Oxigen Reduction Reaction on Pt and Pt Bimetallic Surfaces, Joint International ECS Meeting 2001, San Francisco, USA.

198. T.J. Schmidt, N.M. Marković, V. Stamenković, M. Arnez, **V.R. Radmilović**, and P.N. Ross, Oxigen Reduction in Alcaline Solutions, Gordon Research Conference on Fuel Cells, July 2001, Rhode Island, USA.

199. Jorg M.K. Wiezorek, Cagatay Yanar, **Velimir R. Radmilović** and William A. Soffa, "Evolution of Microstructure and Defect Structure in Massively Transformed $L1_0$-ordered Manganese Aluminide Alloys", TMS SPRING MEETING 2001, New Orleans, Louisiana, February 11-15th, 2001.

200. D. Mitlin, **V.R. Radmilović**, U. Dahmen and J.W. Morris, Jr., The Microstructure and Properties of Al-Cu-Ge-Si Alloys, *Advances in the Metallurgy of Aluminum Alloys*; in Aluminium alloys: James T Staley symposium; M. Turyakioglu, ed., ASM International, Metals Park, 2001, p. 239-242; ISBN: 0871707470.

201. D. Mitlin, **V.R. Radmilović**, U. Dahmen, and J.W. Morris, Jr., "Mechanical Strength and Thermal Stability in Al-Si-Ge-Cu Alloys", TMS SPRING MEETING 2001, New Orleans, Louisiana, February 11-15th, 2001.

202. D. Mitlin, **V.R. Radmilović**, U. Dahmen, and J.W. Morris, Jr., "The Hardness of Al-Ge-Si Ternary Alloys", TMS SPRING MEETING 2001, New Orleans, Louisiana, February 11-15th, 2001.

203. D. Mitlin, **V.R. Radmilović**, U. Dahmen, and J.W. Morris, Jr., "Precipitation and Aging in Al-Si-Ge-Cu", TMS SPRING MEETING 2001, New Orleans, Louisiana, February 11-15th, 2001.

204. D. Mitlin, **V.R. Radmilović**, U. Dahmen, and J.W. Morris, Jr., "The microstructure and properties of Al-Si-Ge-Cu Alloys", THERMEC'2000, Las Vegas.

205. C. Yanar, **V.R. Radmilović**, W.A. Soffa and J.M.K. Wiezorek , "Genesis of Defects in Massively Transformed $L1_0$-Ordered Tau-MnAl Alloys ", Influences of Interface and Dislocation Behavior on Microstructure Evolution. Symposium (Materials Research Society Symposium Proceedings Vol.652). Mater. Res. Soc. 2001, pp.Y8.3.1-6.

206. Cagatay Yanar, Jorg M.K. Wiezorek, **Velimir R. Radmilović** and William A. Soffa, "Massive Transformation and the Formation of the Ferromagnetic t-MnAl Phase in Mn-Al Base Alloys", TMS FALL MEETING 2000, October 8–12, 2000, St. Louis, Missouri, USA.

207. Cagatay Yanar, Jörg M.K. Wiezorek, **Velimir R. Radmilović**, William A. Soffa, "Nucleation and Growth of the Ferromagnetic $L1_o$ Phase in Manganese-Aluminum Permanent Magnet Alloys: Evolution of Micro-structure and Defect Structure", 5th International Conference on Structural & Functional Intermetallics, July 16–19, 2000, Vancouver, British Columbia.

208. **V.R. Radmilović**, "Precipitation and strengthening phenomena in Al-Si-Ge and Al-Si-Ge-Cu alloys", International Materials Research Congress and V Congreso de la asociacion Mexicana de microscopia, August 27-31, 2000, Cancun, Mexico; Organized by Academia Mexicana de ciencia de materiales; Edited by: Gerardo Rosas and Ramiro Perez Campos; Proceedings, p. 136. (**Invited talk**)

209. C. Yanar, J.M.K. Wiezorek, **V.R. Radmilović** and W.A. Soffa, "Transformation behavior in Mn-Al-base permanent magnet alloys: Defect structure and microstructure", 10th International Metallurgy and Materials Congress, 24-28 May 2000, Istanbul, TURKEY.

210. R. Kilaas, **V.R. Radmilović**, and U. Dahmen, "Structure refinement of S-phase precipitates in Al-Cu-Mg alloys by quantitative HRTEM", Advances in Materials Problem Solving with the Electron Microscopy. Symposium (Materials Research Society Symposium Proceedings Vol.589). Mater. Res. Soc. 2001, pp. 273-8. Warrendale, PA, USA.

211. R. Etien, **V.R. Radmilović**, and T.M. Devine, "Stress Corrosion Cracking of Thin Films of Stainless Steel", MRS'99, Boston, (2000).

212. T. Radetić, W.A. Soffa, **V.R. Radmilović**, "HREM observations of mechanical twinning in Cu-Ti alloys: structure of incoherent and coherent twin interfaces". Proceedings of the Memorial Symposium Held at the 1997 TMS Fall Meeting: Boundaries and Interfaces in Materials: David A. Smith Symposium. TMS. 1998, pp. 83-88. Warrendale, PA, USA.

213. **V.R. Radmilović**, "Precipitation phenomena in Al-alloys"; Proceed. Of 1st International Conference of the Chemical Societies of the Southeast European Countries, Halkidiki, Greece, 1998, p. SL20.

214. J.Y. Gu, S.B. Ogale, K. Ghosh, T. Venkatesan, R. Ramesh, **V.R. Radmilović**, U. Dahmen, G. Thomas, T.W. Noh, (Edited by: M.F. Hundley, J.H. Nickel, R. Ramesh, Y. Tokura,) "In-plane grain boundary effects on the transport properties of $La_{0.7}Sr_{0.3}MnO_{3-x}$ thin films", Science and Technology of Magnetic Oxides Symposium, Boston, MA, USA, 1-4 Dec. 1997, Warrendale, PA, USA: Mater. Res. Soc, 1998. pp. 257-62.

215. E.R. Stojiljković, K.I. Popov, **V.R. Radmilović**, M.G. Pavlović, "Dendritic electrocrystallization of lead"; Proceed. Of 1st International Conference of the Chemical Societies of the Southeast European Countries, Halkidiki, Greece, 1998, PO-727.

216. E.R. Stojiljković, K.I. Popov, **V.R. Radmilović**, M.G. Pavlović, "Dendritic electrocrystallization of lead"; Proceed. Of 1st International Conference of the Chemical Societies of the Southeast European Countries, Halkidiki, Greece, 1998, PO-727.

217. **V.R. Radmilović**, S. Ratković, and U. Dahmen, "Digital Moiré analysis of interface dislocation structure between S-phase (Al_2CuMg) and Al-based matrix"; Proceed. 55th MSA Meeting, SF Press, San Francisco, 1997, pp. 665-666.

218. A. Nikolić, **V.R. Radmilović**, M. Simicić, Đ. Koruga, "Nanotubes: basic structural and energy properties", Second Yugoslav Conference on Advanced Materials, Herceg-Novi, Yugoslavia, 15-19 Sept. 1997.M. Popović, E. Romhanji, **V.R. Radmilović**, V. Milenković, "Improvement of the AlMg6.5 alloy properties for forming application", EUROMAT'97, Maastricht, 21-23 April, 1997.

219. **V.R. Radmilović**, S. Ratković, and U. Dahmen, "Digital Moiré analysis of interface dislocation structure between S-phase (Al_2CuMg) and Al-based matrix"; Proceed. 55th MSA Meeting, SF Press, San Francisco, 1997, pp. 665-666.

220. **V.R. Radmilović**, "Application of electron microscopy in studies of phase transformations and other phenomena in materials", in *Advanced materials for high technology applications*, ed. D. Uskoković, Trans. Tech. Publ. Monograph Series, vol. 214 (1996), pp. 21-32.

221. **V.R. Radmilović**, M.A. O'Keefe, "Fresnel effect in high resolution TEM imaging of small particles"; Proceed. 53rd MSA Meeting, SF Press, San Francisco, 1995, pp. 590-591.

222. **V.R. Radmilović** and M.A. O'Keefe, "Bond relaxation on the high resolution TEM image of the beta-SiC twin interface; Proceed. Fall MRS, Boston, USA.

223. **V.R. Radmilović** and G. Thomas, "Nonstoichiometry of Al-Zr intermetallic phases", 4th Int. Conf. on: Aluminum Alloys: Their physical and mechanical properties1, Atlanta, 1994, pp. 153-160.

224. **V.R. Radmilović**, R. Kilaas, and G. Thomas, "Amorphization of $Al_{10}(V_xCr_{1-x})$ intermetallic phase"; Proceed. 52nd MSA Meeting, SF Press, San Francisco, 1994, pp. 662-663.

225. **V.R. Radmilović**, H. Gasteiger, P. Ross, "Structure and chemical composition of Pt-Ru nanoparticles supported on carbon black"; Proceed. 52nd MSA Meeting, SF Press, San Francisco, 1994, pp. 782-783.

226. M.A. O'Keefe and **V.R. Radmilović**, "Specimen thickness from matching with simulated images are under estimated", 13th International Conference on Electron Microscopy, Paris, France, 17-22 July, 1994; Ed's: B. Jouffreu and C. Colliex; Proceedings, pp. 361-362.

227. M.A. O'Keefe and **V.R. Radmilović**, "Specimen thickness derived from matching simulated HREM images are wrong", Abstracts from the 5th Conference on *Frontier in Electron Microscopy in Materials Science*, Berkeley, 1994, p. 50. (Invited paper)

228. M.G. Pavlović, B.N. Grgur, **V.R. Radmilović**, K.I. Popov, "The morphology of copper electrodeposits", 45th Annual Meeting of the Int. Society of electrochemistry, Porto, Portugal, 28. VIII 2.IX. 1994, p. VII-85.

229. E.R. Stojiljković, **V.R. Radmilović**, A. Dekanski, M.G. Pavlović, K.I. Popov, "The surface coarseness of the bright metal electrodeposits", Int. Seminar of Alloys and Composite Materials, Budva, Yugoslavia, 25 28. IX. 1994, p. P-12.

230. M.G. Pavlović, **V.R. Radmilović**, A. Dekanski, E.R. Stojiljković, and K. I. Popov, "The surface coarseness level determining the brightness of electrodeposeted metal coatings", Int. Conference on "Modern Electrochemistry in Industry and for The Protection of the Environment", Krakow, Poland, 18 22.X. 1993, p. 2.6.

231. M.G. Pavlović, **V.R. Radmilović**, A. Dekanski, E.R. Stojiljković, and K.I. Popov, "The effects of structure and morphology of electrodeposited metals on the brightness of coatings", 44th ISE Meeting, Berlin, 5 10. IX. 1993, p. II.4.40.

232. **V.R. Radmilović** and G. Thomas, "Structure and chemical composition of nanophase particles in Mg based alloys"; Proceed. Of the MSA Annual Meeting, Cincinnati, 1993, pp. 990-991.

233. M.A. O'Keefe and **V.R. Radmilović**, "The effect of small crystal tilts on dynamical scattering: Why simulated images are thinner than experimental ones"; Proceed. Of the MSA Annual Meeting, Cincinnati, 1993, pp. 980-981.

234. Đ. Drobnjak, S. Vučić, and **V.R. Radmilović**, "Substructure in annealed commercial purity copper"; Proceed. of 10th EUREM Conf., Granada, Spain, 1992, pp. 247-248.

235. **V.R. Radmilović**, M.A. O'Keefe, and G. Thomas, "Imaging of SiC in metal matrix composites"; Proceed. of 10th EUREM Conf., Granada, Spain, 1992, pp. 449-450.

236. M.A. O'Keefe and **V.R. Radmilović**, "Extension of the "thin crystal" condition by small crystal tilts Why HREM images of SiC polytypes always look tilted"; Proceed. Of EMSA Conf., Boston, 1992, pp. 116-117.

237. **V.R. Radmilović** and G. Thomas, "Microstructure of High Temperature Al based Matrix/SiC Particulates Composites", in *High Performance Composites for 1990's*, Ed's., S.K. Das, C. K. Ballard, and F. Mariker, TMS Publ., Warrendale, 1991, pp. 83-92.

238. **V.R. Radmilović**, G. Thomas, R. Kilaas, and N.J. Kim, "HREM of a rapidly solidified Al-Li-Zr based alloys"; Proceed. of XIIth Int. Congress for Electron Microscopy, 1990, pp. 51-52.

239. Đ. Drobnjak, S. Vučić, V. Milenković, **V.R. Radmilović**, "Abnormal annealing behaviour of commercial purity copper"; oral presentation at Recrysallization Conf. in Australia, 1990, Conf. Proceed., Recrystallization'90, ed. T. Chandra, TMS, 1990, pp. 517-522.

240. **V.R. Radmilović**, S. Miyasato, and G. Thomas, "Subgrain boundary structure in Al-Li-Cu-Zr alloy"; Proceed. Of III Balkan Congress on Electron Microscopy, 1989, pp. 473-474.

241. E. Romhanji, **V.R. Radmilović**, and V. Milenković, "Microstructure development in Cu76ZnSi brass during uniaxial tension"; Proceed. Of III Balkan Congress on Electron Microscopy, 1989, pp. 263-264.

242. Đ. Drobnjak, S. Vučić, D. Manojlović, and **V.R. Radmilović**, "TEM Study of Interfaces in As Annealed Copper"; Proceed. Of III Balkan Congress on Electron Microscopy, 1989, pp. 261-262.

243. **V.R. Radmilović**, C. Nelson, and G. Thomas, "Electron Microscopy of TMT Al-Li-Cu Alloys"; Proceed. Of the 45th EMSA Annual Meeting, 1987, pp. 605-606.

244. E. Romhanji, **V.R. Radmilović**, and V. Milenković, "The Influence of Si Content on Structure and Strain Hardening in Cu76Zn Brass"; Proceed. Of 8th EUREM, 1984, vol. 2, pp. 879-880.

245. **V.R. Radmilović** and Đ. Drobnjak, "A SEM Study of Tensile Fracture in Dual Phase and Multi Phase Steels"; Proceed. Of 8th EUREM, Budapest, 1984, vol. 1, pp. 793-794.

246. G. Thomas, S. Miyasato, **V.R. Radmilović**, "Electron Microscopy of Al-Li-Cu and Al-Li-Mg alloys; in. Al-Li alloys", Los Angeles Chapter Publ., ASM Int. Conf., 1988. (Invited lectures).

247. D. Manojlović, R. Milović, **V.R. Radmilović**, Đ. Drobnjak, "SEM study of crack initiation and propagation in high speed steel"; in Failure Analysis Theory and Practice, 7th ECF Conf., Budapest, 1988, EMAS Publ., 1988, pp. 267-271.

248. S. Matijašević, S. Marković, D. Mihajlović, **V.R. Radmilović**, "High silicon content castings", BIFC, Int. Conf., Beijing International Foundry, Foundry Institution of Chanise Mechanical Engineering Society, Publ., Beijing, 1986, pp. 1242-1248.

249. E. Romhanji, **V.R. Radmilović**, V. Milenković, Đ. Drobnjak, "Deformation behaviour of Brass Steel Brass Sandwich Sheet Material", in: *Coating and Bimetallics for Energy Systems and Chemical Process Environments*, ASM Conf. South Carolina, American Society for Metals, ASM Publ., 1985, pp. 53-60.

250. **V.R. Radmilović**, Đ. Drobnjak, B. Djurić, "Elevated Temperature Strain-Age Hardening of a V/Nb Dual Phase Steel"; in: *Deformation of Multi Phase and Particle Containing Materials*, Int. Conf., Roskilde, Denmark, RISØ Publ., 1984, pp. 499-502. ISSN: 01088599 ISBN: 8755009468.

251. **V.R. Radmilović**, Đ. Drobnjak, M. Rogulić, "Ductile fracture in a V/Nb Dual Phase Steel"; in: *Fracture and the Role of Microstructure*, 4th ECF Confer., Leoben, 1982, EMAS Publ., vol.1, 1983, pp. 322-327.

252. **V.R. Radmilović**, D. Mihajlović, M. Rogulić, "The development of dislocation structure during low cycle fatigue in Al-Zn-Mg alloy"; Proceed. Of the 7th EUREM, The Hague, 1980, pp. 156-157.

D. Poster presentations

1. **V.V. Radmilović**, D. Stojanović, P. Uskoković, R. Aleksić, **V.R. Radmilović**, "Structure and Properties of polyvinyl butyral based nanocomposites", International Materials Research Conference, YUCOMAT2013, Herceg Novi, Septeber 2-6, 2013; Book of Abstracts, p. 114; Editors: Dragan Uskoković and Velimir R. Radmilović; (**best poster award for Vuk Radmilović**)

2. R. Sankaran, C. Ophus, **V.R. Radmilović**, A. Minor and J.W. Morris, Jr., "Characterizing the Phase Stability and Deformation Behavior of Gum Metal and Related-Alloys", TMS 2013, 142th Annual Meeting and Exhibition, March 3-March 7, 2013, San Antonio, TX.

3. Sean C. Andrews, Melissa A. Fardy, Michael C. Moore, Shaul Aloni, **Velimir R. Radmilović** and Peidong Yang, "Controllable Transport Properties of ZnO-based Polytypoid Nanowires", 2011 MRS Spring Meeting, San Francisco, 2011.

4. **Velimir R. Radmilović**, Alfredo Tolley, Emmauelle Marquis, Marta D. Rossell, Zonghoon Lee and Ulrich Dahmen, "Al_3(LiScZr) Core/double-shell Precipitates in Al Rich Alloys", MRS Spring Meeting, San Francisco, 2008.

5. M.K. Santala, **V.R. Radmilović**, A.M. Glaeser and R. Gronsky, "Orientation relationships and morphology of platinum precipitates in sapphire", 108th Gordon Conference in Solid State Studies of Ceramics, Andover, NH, August 2007.

6. J.T. Robinson, D.A. Walko, D.A. Arms, J.A. Liddle, A. Minor, **V.R. Radmilović**, and O.D. Dubon, "Metal-mediated assembly of Ge island arrays on Si", Advanced Photon Source Users Meeting, Argonne, IL 2005.

7. J.T. Robinson, J.A. Liddle, A. Minor, **V.R. Radmilović**, and O.D. Dubon, "Metalmediated assembly of Ge island arrays on Si", Berkeley Nanotechnology Forum, Berkeley, CA 2005.

8. J.T. Robinson, J.A. Liddle, A. Minor, **V.R. Radmilović**, and O.D. Dubon, "Directed assembly of Ge islands grown on Au patterned Si(100)", Berkeley Nanotechnology Forum, Berkeley, CA 2004.

9. J.M.K. Wiezorek, W.A. Soffa, C. Yanar, E.A. Stach and **V.R. Radmilović**, "Octahedral twins in L1o-ordered manganese-aluminum intermetallics"; Integrative and Interdisciplinary Aspects of Intermetallics, Fall 2004 Materials Research Society Meeting.

10. V. Gopal, E.A. Stach, and **V.R. Radmilović**, "A comparison of focused ion beam and electron beam induced deposition of conductive platinum nanowires", Frontiers of Electron Microscopy in Materials Science, Berkeley, CA, October 2003.

11. J.M.K. Wiezorek, W.A. Soffa, C. Yanar, **V.R. Radmilović**, E. A. Stach, "The formation of twins and defect structures in the ferromagnetic $L1_O$-ordered manganese-aluminides"; Materials Research Society Meeting, Boston, MA, December 2002.

E. Papers published in the proceedings of national conferences (in Serbian)

1. V. Maksimović, **V.R. Radmilović**, and M.T. Jovanović, "New aluminum alloys for structural application", Symposium on deformation and processing of metals and alloys, Belgrade, June 2002, Yugoslavia.
2. M.Novović, L. Šiđanin, P.Kovač, **V.Radmilović**, Metalografsko ispitivanje procesa nastajanja strugotine, 40 godina elektronske mikroskopije u Srbiji (1997) 165-166.

3. M. Popović, E. Romhanji, **V.R. Radmilović**, V. Milenković, "Structure and deformation behavior of AlMg6.5 alloy"; Proceed. *Conf. ETAN*, Zlatibor, 1997, pp. 512-515.

4. K.I. Popov, M.G. Pavlović, E.R. Stojiljković, **V.R. Radmilović**, "Kelvinov efekat pri elektrohemijskom taloženju dendrita metala", SHD, Jubilarni naučni skup, Zbornik apstrakta, 1997, str. PS-68.

5. **V.R. Radmilović**, "Application of high resolution electron microscopy in nanocrystal investigation", Collection of abstracts of III Electron Microscopy Symp. of Serbia, Belgrade, 1996.(**plenary lecture-invited**)

6. J.B. Zotović, S.Lj. Gojković, **V.R. Radmilović**, and S.K. Zečević, "Characterization and catalytic properties of electrochemically deposited iron-phosphorus alloys", 47th ISE Meeting, September 1-6, 1996, Veszprém-Balatonfüred, Hungary.

7. S. Ratković, **V.R. Radmilović**, "Spinodal decomposition in Al-Li alloys", Collection of abstracts of III Electron Microscopy Symp. of Serbia, Belgrade, 1996.

8. M. Novović, L. Šiđanin, P. Kovač, **V.R. Radmilović**, "Application of SEM in investigation of materials machinability", Collection of abstracts of III Electron Microscopy Symp. of Serbia, Belgrade, 1996.

9. **V.R. Radmilović**, S. Ratković, "Crystallography of Pt-Ru nanoparticles in real space", Collection of abstracts of Symp on Crystallography, Palić, 1996, pp. 42-43.

10. N. Ilić, M.T. Jovanović, **V.R. Radmilović**, Đ. Drobnjak, "Dynamical deformation aging in Al-Li alloys"; Proceed. *of VI Yugoslav metallurgical symposium, JSM'96*, Vrnjacka Banja, 1996, pp. 273-276.

11. S.V. Ratković, **V.R. Radmilović**, "Computer simulation of AP domain formation in the presence of vacancies"; Proceed. *of VI Yugoslav metallurgical symposium, JSM'96*, Vrnjacka Banja, 1996, pp. 313-316.

12. N. Ilić, Đ. Drobnjak, **V.R. Radmilović**, M.T. Jovanović, D. Marković, " Apparent activation energy for discontinuous yielding in Al-Li alloys" *Proceed. Conf. ETAN,* 1995., pp. 448-451.

13. S. Ratković and **V.R. Radmilović**, "Monte-Carlo simulation of AP $L1_2$domain formation"; Proceed. *Conf. ETAN*, (1995), pp. 456-459.

14. **V.R. Radmilović**, "Amorphization of intermetallic phases in Al-based alloys", Collection of abstracts of I Electron Microscopy Symp. Of Serbia, Novi Sad, 1994, p. 8.

15. N. Ilić, Đ. Drobnjak, **V.R. Radmilović**, M.T. Jovanović, D. Marković, "Discontinuous yielding in Al-Li alloys"; Proceed. *Symp. Memorial Sci. Meet., "Metallurgy'94",* (1994), pp. 299-302.

16. M.G. Pavlović, **V.R. Radmilović**, A. Dekanski, E.R. Stojiljković, K.I. Popov, "Sjaj galvanskih prevlaka bakra kao funkcija njihove hrapavosti", XIV Savetovanje Zastita materijala organskim, metalnim i konverzionim prevlakama, Zbornik radova, 1993, str. 133-140.

17. M.G. Pavlović, E.R. Stojiljković, **V.R. Radmilović**, A. Dekanski, and K.I. Popov, "Ispitivanje povrsine sjajnih galvanskih prevlaka bakra skenirajucim elektronskim mikroskopom (SEM) i skenirajucim tunelskim mikroskopom (STEM)", XXV Oktobarsko savjetovanje rudara i metalurga, Zbornik radova, 1993., str. 779-782.

18. Lj. Kukanjac, **V.R. Radmilović**, Đ. Drobnjak, "Eksploatacioni lom pogonskog zupčanika glavnog reduktora helikoptera", Zbornik radova V Jugoslovenski simpozijum o metalurgiji, Beograd 16 19 januar, 1992, str. 342-345.

19. T. Radetić and **V.R. Radmilović**, "Modeling of deformation hardening of alloys containing ordered particles"; Proceed. of Yugoslav metallurgical symposium, *JSM'92*, Belgrade, (1992), pp. 414-418.

20. **V.R. Radmilović**, "Characterization of inorganic materials by transmission electron microscopy"; Proceed. 3rd Yugoslav Society for Electron Microscopy (*YUSEM*) Symposium, Niš, (1992), p. 8.

21. T. Radetić, W. A. Soffa, and **V.R. Radmilović**, "Deformation twinning in Cu-Ti alloys"; Proceed. 3rd Yugoslav Society for Electron Microscopy (*YUSEM*) Symposium, Niš, (1992), p. 73.

22. P. Živanović, Đ. Drobnjak, S. Vučić, and **V.R. Radmilović**, "Effect of texture on deformation behavior low-phosphorous copper"; Proceed. of Yugoslav metallurgical symposium, *JSM'92*, Belgrade, (1992), p. 426-429.

23. **V.R. Radmilović**, "Metal matrix composites" (invited); Proceed. of Yugoslav metallurgical symposium, *JSM'92*, Belgrade, (1992), p. 621-625.

24. S. Stojanović, M.T. Jovanović, and **V.R. Radmilović**, "Statičko i dinamičko deformaciono starenje Cu-Ti legura", XXXVIII Savetovanje Srpskog hemijskog društva i VII Sastanak hemičara Vojvodine, Novi Sad, 16-18. januar 1991. godine (XXXVIII-SHD); Izdavač: Srpsko hemijsko društvo (SHD), Beograd; Redakcija: I. Popović i N. Blagojević; Izvodi radova, str. 300.

25. T. Radetić and **V.R. Radmilović**, "Mehaničke osobine i deformaciono ponašanje Cu-Ti legura", XXXVIII Savetovanje Srpskog hemijskog društva i VII Sastanak hemičara Vojvodine, Novi Sad, 16-18. januar 1991. godine (XXXVIII-SHD); Izdavač: Srpsko hemijsko društvo (SHD), Beograd; Redakcija: I. Popović i N. Blagojević; Izvodi radova, str. 301.

26. **V.R. Radmilović**, "Kompozitni materijali na bazi metalnih matrica", XXXVIII Savetovanje Srpskog hemijskog društva i VII Sastanak hemičara Vojvodine, Novi Sad, 16-18. januar 1991. godine (XXXVIII-SHD); Izdavač: Srpsko hemijsko društvo (SHD), Beograd; Redakcija: I. Popović i N. Blagojević; Izvodi radova, str. 285. (**Predavanje po pozivu**)

27. P. Živanović, S. Vučić, **V.R. Radmilović**, and Đ. Drobnjak, "Tekstura i osobine hladno valjanog i žarenog niskofosfornog bakra komercijalne čistoće", XXXVIII Savetovanje Srpskog hemijskog društva i VII Sastanak hemičara Vojvodine, Novi Sad, 16-18. januar 1991. godine (XXXVIII-SHD); Izdavač: Srpsko hemijsko društvo (SHD), Beograd; Redakcija: I. Popović i N. Blagojević; Izvodi radova, str. 286.

28. S. Miyasato, **V.R. Radmilović**, G. Thomas, "Effect of cooling rate on the formation of delta prime (Al_3Li) precipitate in aluminum lithium based alloys"; TMS Annual Meeting, 1990, Anaheim, California.

29. S. Tadić, M.T. Jovanović, and **V.R. Radmilović**, Deformation behavior of Al-Li-X alloys"; Proceed. VI Int. Conf. *PLOD-89* (Society for plasticity and resistance to plastic deformation), Herceg Novi, (1989), pp. 81-89. (in Serbian)

30. D. Velimirović, M. Đordjević, S. Lotina, **V.R. Radmilović**, D. Kočović, D. Kostić, Z. Lovrić, "Epidural lead fracture complications in the treatment of peripheral vascular disease with spinal cord stimulation"; 15th World Congress of IUA, 1989, p.456.

31. **V.R. Radmilović**, G. Shiflet, and G. Thomas, The role of vacancies during precipitation of S-phase in Al-Cu-Mg and Al-Li-Cu-Mg alloys"; Proceed. Conf. *YUSTOM-89* (Yugoslav Society for Heat and Surface Treatment), Vrnjacka Banja, (1989), p. 63-69.

32. **V.R. Radmilović**, G. Shiflet, G. Thomas, "The role of vacancies during S-phase precipitation in Al-Li-Cu-Mg and Al-Cu-Mg alloys"; Proceed. Symp. *YUSTOM-89*, Vrnjacka Banja, (1989), p. 63.

33. **V.R. Radmilović**, "High resolution electron microscopy", (invited); Proceed. Symp. YUSEM-89 (Yugoslav Society for Electron Microscopy), Igman - Sarajevo (Bosnia & Herzegovina), (1989), pp. 174-180.

34. **V.R. Radmilović**, J. Glazer, J. W. Morris, and G. Thomas, The significance of δ' size/superdislocation spacing ratio in Al-Li based alloys"; Proceed. Symp. JSM-IV (Yugoslav Symposium on Metallurgy), Belgrade, (1987), p. 435.

35. M. Jovanović, M. Stamatović, and **V.R. Radmilović**, "The effect of double stage heat treatment on Fe/Cu powder bimetallic strip"; Proceed. Symp. *JSM-IV* (Yugoslav Symposium on Metallurgy), Belgrade, (1987), p. 381-388.

36. **V.R. Radmilović**, J. Glazer, J.W. Morris, G. Thomas, "The significance of ratio δ' particle size/dislocation pair spacing in Al-Li alloys"; Proceed*. Symp. JSM IV*, Belgrade, (1987), p. 435.

37. **V.R. Radmilović**, D. Košanin, and Đ. Drobnjak, "Deformation behavior of room-temperature aged dual-phase steels"; Proceed. Int. Conf. *PLOD-86*, Herceg Novi, (1986), p. 226-234.

38. **V.R. Radmilović** and M. Rogulić, "Transmission electron microscopy in materials science" (invited); Proceed. Symp. *YUSEM-86* (Yugoslav Society for Electron Microscopy), Plitvice (Croatia), (1986), pp. 9-15.

39. S. Matijašević, S. V. Marković, B. Jordović, and **V.R. Radmilović**, "Porosity in high silicon cast iron"; Proceed. Of VII Yugoslav Foundry Congress, Novi Sad; "Skening i kvantitativna metalografska analiza poroznosti visokosilicijumskog liva", VII kongres livaca Jugoslavije, Novi Sad, 14-18. oktobar, 1986.; Zbornik radova, (1986), p. 294-230.

40. B. Božić, N. Vidojević, N. Novović-Simović, **V.R. Radmilović**, "Specifičnosti strukture beinitnog konstituenta u niskougljeničnom niskolegiranom čeliku povećane čvrstoće"; Odeljenje tehničkih nauka SANU, Belgrade, 1985.

41. **V.R. Radmilović**, E. Romhanji, and Đ. Drobnjak, "Deformation behavior of dual-phase steel during dynamical strain aging"; Proceed. Int. Conf. *PLOD-84*, Herceg Novi, (1984), p. 186.

42. E. Romhanji, **V.R. Radmilović**, Đ. Drobnjak, and V. Milenković, "Deformation behavior of multilayer brass-steel-brass material"; Proceed. International Symposium on the Plasticity and Resistance to Metal Deformation, *PLOD-84*, Herceg Novi, (1984), pp. 316-325.

43. **V.R. Radmilović**, Đ. Drobnjak, M.T. Jovanović, "Apparent activation energy for serrated yielding of V/Nb dual-phase steel"; Proceed. Symp. *JSM-III,* (Yugoslav Symposium on Metallurgy), Belgrade, (1984), p. 681.

44. **V.R. Radmilović**, Đ. Drobnjak, and B. Đurić, "Fracture mechanisms of dual-phase ferrite-martensite steels"; Proceed. Conf. *XXVIII ETAN*, Split (Croatia), (1984), p. 225.

45. **V.R. Radmilović**, Đ. Drobnjak, M.T. Jovanović, "Discontinuous yielding of V/Nb steel"; Proceed. of XXVII ETAN a, Struga, Macedonia, 1983, p. V.121.

46. **V.R. Radmilović**, Đ. Drobnjak, M. Rogulić, “Martensite deformability and fracture mechanisms in dual-phase carbon steel”; Proceed. *Conf.YUSEM’83*, Kranjska Gora, Slovenia, (1983), p. 271.

47. Đ. Drobnjak, V. Milenković, **V.R. Radmilović**, E. Romhanji, “The effect of rolling and annealing regime on the properties of Ms/Fe/Ms bimetallic strips”; Abstracts of Symp. "Materials’83", Titovo Užice, 1983, p. 24.

48. Đ. Drobnjak, V. Milenković, **V.R. Radmilović**, and E. Romhanji, "Uticaj režima valjanja i žarenja na osobine Ms (Fe) Ms trake", Naučni skup *MATERIALI-83*, Titovo Užice, 19-21. Maj 1983. godine, Zbornik apstrakta, p. 24.

49. **V.R. Radmilović** and M. Đordjević, "Lead fracture in endocardiac electrode system"; Proceed. Symp. *YUSEM-83* (Yugoslav Society for Electron Microscopy), Kranjska Gora (Slovenia), (1983), p. 247.

50. **V.R. Radmilović**, Đ. Drobnjak, “Type of martensite and retained austenite morphology in dual-phase steels”; Proceed. *Conf. YUSEM’83*, Kranjska Gora, Slovenia, (1983), p. 273.

51. **V.R. Radmilović**, M. Đorđević, “Epidural lead fracture”; Proceed. Conf. YUSEM’83, Kranjska Gora, Slovenia, (1983), p. 247.

52. **V.R. Radmilović** and Đ. Drobnjak, "Type of martensite and retained austenite morphology in dual-phase steels"; Proceed. Symp. *YUSEM-83* (Yugoslav Society for Electron Microscopy), Kranjska Gora (Slovenia), (1983), p. 273.

53. **V.R. Radmilović**, Đ. Drobnjak, M.T. Jovanović, "Diskontinuirano popuštanje Serrated yielding of V/Nb čelika sa dvofaznom strukturom ", Zbornik radova *XXVII ETAN*, Struga (Makedonija), sveska 5 (1983), str. 121-126.

Đ. Drobnjak, **V.R. Radmilović**, D. Tirnanić and D. Popović, "The properties of control rolled Nb and Nb/V high strength low alloy steels"; Proceed. Int. Conf. *PLOD-82*, Herceg Novi, (1982), p. 77.

54. **V.R. Radmilović**, Đ. Drobnjak, and B. Đurić, "Deformation behavior of dual-phase steels at elevated temperature"; Proceed. Int. Conf. *PLOD-82*, Herceg Novi, (1982), p. 279.

55. Z. Odanović, D. Tirnanić, **V.R. Radmilović**, and Đ. Drobnjak, "Mehaničke osobine i transformacione karakteristike V/Nb čelika sa dvofaznom strukturom”, Zbornik radova *XXV ETAN*, Mostar (Bosna & Hercegovina), vol. 1, (1981), str. 753-760.

56. **V.R. Radmilović**, E. Romhanji, V. Milenković, and D. Nenadić, "Effect of processing parameters on brass formability"; Proceed. Int. Conf. *PLOD-80*, Herceg Novi, (1980), p. 184.

57. D. Mihailović, M. Rogulić, and **V.R. Radmilović**, "Influence of the type of precipitate on the formation of a dislocation substructure in Al-Zn-Mg alloy at low cycling fatigue", II Jugoslovenski simpozijum o hemijskom inženjerstvu i XXII Savetovanje hemičara Srbije, Beograd, 16-19. januara 1980; Glasnik hemijskog društva; Urednik: Slobodan V. Ribnikar; str. 162.

58. D. Mihajlović, M. Rogulić, **V.R. Radmilović**, "The effect of precipitate on dislocation substructure formation in Al-4%Zn-1,6%Mg alloy during low cycle fatigue"; *XXII SHD Conf.*, Belgrade, 1980, p. C.162.

59. **V.R. Radmilović**, D. Mihajlović, M. Rogulić, "Some characteristics of structure of Al-Zn-Mg alloys under low cycle fatigue"; Proceed*. of II JUGAS*, Radenci, Kidricevo, Slovenia, 1980, p. 479.

60. **V.R. Radmilović** and D. Mihailović, "Low-cycle fatigue of Al-Zn-Mg alloys", Serbian Chemical Society annual meeting, *SHD-XIX*, Belgrade, (1977), p. 27.

61. D. Mihajlović, M. Rogulić, A. Mihajlović, **V.R. Radmilović**, "Structure of cycle deformed Al-4%Zn-1,6%Mg alloy"; II Yugoslav Congress for Industrial Chemistry, Skopje, Macedonia, (1976), p. VI-41.

62. **V.R. Radmilović**, D. Mihajlović, "The change in plastic/elastic deformation ratio in total strain during low cycle fatigue of Al-Zn-Mg alloys" Oral presentation at XIX Symp. of Chemists, Belgrade, 1975.

F. Projects on which V.R. Radmilović participated as an author or co-author (in Serbian)

1. **V.R. Radmilović**, G. Thomas, G.J. Shiflet, and E.A. Starke, "On the nucleation and growth of Al_2CuMg (S-phase) in Al-Li-Cu-Mg and Al-Cu-Mg alloys", Lawrence Berkeley National Laboratory*,* Report No. LBL-26629, 1989, pp. 1-6.

2. Group of authors: "Quality improvement of high conductivity copper rolled products with small phosphorous addition" University of Belgrade, Faculty of Technology and Metallurgy, Dept. of Metallurgy -"Sevojno" Rolling Mill, Report, Belgrade, 1989, 46 pages.

3. **V.R. Radmilović**, A.G. Fox, R.M. Fisher, and G. Thomas, "Lithium depletion in precipitate free zones (PFZ's) in Al-Li base alloys", Lawrence Berkeley National Laboratory*,* Report No. LBL-25603, 1988, pp. 1-6.

4. **V.R. Radmilović**, G. Thomas, and N.J. Kim, "High resolution electron microscopy study of a rapidly solidified Al-3Li-1Cu-0.5Mg-0.5Zr alloy", University of California, Berkeley, Dept. of Materials and Mineral Engineering, Progress Report for: Allied Signal Inc., Metals and Ceramics Laboratory, (1988), pp. 1-14.

5. Group of authors: "Brass quality improvement for high speed machining", Research Fund of Serbia, University of Belgrade, Faculty of Technology and Metallurgy, Dept. of Metallurgy - "Sevojno" Rolling Mill Report, Belgrade, 1988, 54 pages.

6. Group of authors: "Brass quality improvement for high speed machining", Research Fund of Serbia, University of Belgrade, Faculty of Technology and Metallurgy, Dept. of Metallurgy - "Sevojno" Rolling Mill Report, Belgrade, 1987, 53 pages.

7. Group of authors: "Technology development for bimetallic Steel/Pb-bronze strip production for slide-bearing application", Research Fund of Serbia, University of Belgrade, Faculty of Technology and Metallurgy, Dept. of Metallurgy -"Prvi partizan" Report, Titovo Užice, Belgrade, 1986, 52 pages.

8. Group of authors: “Technology development for multilayer Steel/Cu-alloys materials production”, Research Fund of Serbia, University of Belgrade, Faculty of Technology and Metallurgy, Dept. of Metallurgy -“Sevojno” Rolling Mill Report, Belgrade, 1986, 24 pages.

9. Group of authors: “Technology development for bimetallic Steel/Pb-bronze strip production for slide-bearing application”, Research Fund of Serbia, University of Belgrade, Faculty of Technology and Metallurgy, Dept. of Metallurgy -“Prvi partizan” Report, Titovo Užice, Belgrade, 1985, 54 pages.

10. Group of authors: “Technology development for multilayer Steel/Cu-alloys materials production”, Research Fund of Serbia, University of Belgrade, Faculty of Technology and Metallurgy, Dept. of Metallurgy -“Sevojno” Rolling Mill Report, Belgrade, 1985, 28 pages. Group of authors: “Technology development for the microalloyed steel sheet production”, Research Fund of Serbia, University of Belgrade, Faculty of Technology and Metallurgy, Dept. of Metallurgy -MKS Reports, Belgrade, 1985, 132 pages.

11. Group of authors: “Technology development for multilayer Steel/Cu-alloys materials production”, Research Fund of Serbia, University of Belgrade, Faculty of Technology and Metallurgy, Dept. of Metallurgy -“Sevojno” Rolling Mill Report, Belgrade, 1984, 17 pages.

12. Group of authors: “Technology development for the microalloyed steel sheet production”, Research Fund of Serbia, University of Belgrade, Faculty of Technology and Metallurgy, Dept. of Metallurgy -MKS Reports, Belgrade, 1984, 63 pages.

13. Group of authors: “Technology development for multilayer Steel/Cu-alloys materials production”, Research Fund of Serbia, University of Belgrade, Faculty of Technology and Metallurgy, Dept. of Metallurgy -“Sevojno” Rolling Mill Report, Belgrade, 1983, 44 pages.

14. Group of authors: “Technology development for the microalloyed steel sheet production”, Research Fund of Serbia, University of Belgrade, Faculty of Technology and Metallurgy, Dept. of Metallurgy -MKS Reports, Belgrade, 1983, 72 pages.

15. Group of authors: “Technology development for multilayer Steel/Cu-alloys materials production”, Research Fund of Serbia, University of Belgrade, Faculty of Technology and Metallurgy, Dept. of Metallurgy -“Sevojno” Rolling Mill Report, Belgrade, 1982, 56 pages.

16. Group of authors: “Technology development for the microalloyed steel sheet production”, Research Fund of Serbia, University of Belgrade, Faculty of Technology and Metallurgy, Dept. of Metallurgy -MKS Reports, Belgrade, 1982, 73 pages.

17. Đ. Drobnjak, D. Tirnanić, **V.R. Radmilović**, D. Popović, “Design and properties of microalloyed steels produced in MKS Iron and Steel Plant, Smederevo, Research Fund of Serbia, University of Belgrade, Faculty of Technology and Metallurgy, Dept. of Metallurgy - IBK Report, Belgrade, 1981, 46 pages.

18. Group of authors: “Investigation of precipitation from supersaturated solid solutions and hardening phenomena in thermo-mechanical treatment”, Research Fund of Serbia, University of Belgrade, Faculty of Technology and Metallurgy, Dept. of Metallurgy -Report, Belgrade, 1975, 28 pages.

19. Group of authors: “Investigation of precipitation from supersaturated solid solutions and hardening phenomena in thermo-mechanical treatment”, Research Fund of Serbia, University of Belgrade, Faculty of Technology and Metallurgy, Dept. of Metallurgy -Report, Belgrade, 1974, 21 pages.

20. Group of authors: “Investigation of precipitation from supersaturated solid solutions and hardening phenomena in thermo-mechanical treatment”, Research Fund of Serbia, University of Belgrade, Faculty of Technology and Metallurgy, Dept. of Metallurgy-Report, Belgrade, 1973, 25 pages.

21.

G. Expertise on which V.R. Radmilović participated as an author or co-author (in Serbian)

1. **V.R. Radmilović**, V. Milenković, E. Romhanji, et al. “Technology development for Steel/Cu-alloys sandwich production, joined by explosive bonding”, Innovation Project, Ministry for Science and Technology of Serbia, University of Belgrade, Faculty of Technology and Metallurgy, Dept. of Physical Metallurgy, Report, (1996/1997).

2. **V.R. Radmilović**, H. Gasteiger, P. Ross, “Structure and chemical composition of a supported Pt-Ru electrocatalyst for methanol oxidation”, Lawrence Berkeley Laboratory Report No. LBL-36167, UC-404, 1995, pp. 1-29.

1. **V.R. Radmilović**, G. Thomas, “Al-Zr alloys”, Project Report for: Allied Signal Inc., Metals and Ceramics Laboratory, University of California, Berkeley, Dept. of Materials and Mineral Engineering, 1991, 14 pages.

2. Đ. Drobnjak, **V.R. Radmilović**, B. Djurić, Lj. Nedeljković, and co-workers, “Microalloyed and similar steels for rail-road and other structural applications”, Research Fund of Serbia, Project Report, 1991.

3. **V.R. Radmilović**, G. Thomas, “Mg/SiC composites”, Project Report for: Allied Signal Inc., Metals and Ceramics Laboratory, University of California, Berkeley, Dept. of Materials and Mineral Engineering, 1990, 10 pages.

4. Đ. Drobnjak, **V.R. Radmilović**, B. Đurić, Lj. Nedeljković, “Stress corrosion of metals and alloys”, University of Belgrade, Faculty of Technology and Metallurgy, Dept. of Physical Metallurgy -VTI Project report, Belgrade, 1990, 280 pages.

5. **V.R. Radmilović**, “Superplasticity of Al-Li-X alloys”, University of Belgrade, Faculty of Technology and Metallurgy, Dept. of Physical Metallurgy -VTI Report, Belgrade, 1989, 34 pages.

6. **V.R. Radmilović**, G. Thomas, “Al/SiC composites”, Project Report for: Allied Signal Inc., Metals and Ceramics Laboratory, University of California, Berkeley, Dept. of Materials and Mineral Engineering, 1989, 15 pages.

7. **V.R. Radmilović**, G. Thomas, “Al-Li alloys”, Project Report for: Allied Signal Inc., Metals and Ceramics Laboratory, University of California, Berkeley, Dept. of Materials and Mineral Engineering, 1988, 12 pages.

8. **V.R. Radmilović**, “Al-Li-X alloys for fabrication by rolling, forging and extrusion”, University of Belgrade, Faculty of Technology and Metallurgy, Dept. of Physical Metallurgy -VTI Report, Belgrade, 1988, 26 pages.

9. S. Tomašević, D. Jurić, I. Kratina, **V.R. Radmilović**, M. Trifunović, "Steel quality improvement for rail-road application", Institute "H. Brkić" Report, Zenica, Bosnia & Herzegovina, 1987, 138 pages.

10. R. Ramesh, **V.R. Radmilović**, and G. Thomas, "Steel based composites", Project Report for: "Snap On Tools", University of California, Berkeley, Dept. of Materials and Mineral Engineering, 1987, 58 pages.

11. **V.R. Radmilović**, "Steel specimen characterization fabricated by rotational forging", University of Belgrade, Faculty of Technology and Metallurgy, Dept. of Metallurgy, Report, Belgrade, 1987, 11 pages.

12. V. Milenković, Đ. Drobnjak, **V.R. Radmilović**, E. Romhanji, "Aluminum alloys product development for application in "GOSA" factory", University of Belgrade, Faculty of Technology and Metallurgy, Dept. of Metallurgy -"Gosa Institute" Report, Belgrade, 1986, 87 pages

13. Đ. Drobnjak, S. Sedmak, **V.R. Radmilović**, V. Hut, "Investigation, characterization and usability analysis of steel tubes for thermal transports", University of Belgrade, Faculty of Technology and Metallurgy, Dept. of Metallurgy, Report, Belgrade, 1986, 23 pages.

14. Đ. Drobnjak, **V.R. Radmilović**, Lj. Nedeljković, P. Todorović, "Determination of fracture mechanisms and failure analysis of semi-axles", University of Belgrade, Faculty of Technology and Metallurgy, Dept. of Metallurgy, Report, Belgrade, 1985, 39 pages.

15. **V.R. Radmilović** and M. Rogulić, "Electron microscopy of aged aluminum alloys-II", University of Belgrade, Faculty of Technology and Metallurgy, Dept. of Metallurgy -Report, Belgrade, 1984, 21 pages.

16. S. Marković, **V.R. Radmilović**, "Mechanical properties and structure of steel castings", University of Belgrade, Faculty of Technology and Metallurgy, Dept. of Metallurgy, Report, Belgrade, 1984, 29 pages.

17. **V.R. Radmilović** and M. Rogulić, "Electron microscopy of rubber with and without teflon addition-Surface morphology analysis", University of Belgrade, Faculty of Technology and Metallurgy, Dept. of Metallurgy, Report, Belgrade, 1984, 23 pages.

24. Đ. Drobnjak and **V.R. Radmilović**, "Electron microscopy of steel welds", University of Belgrade, Faculty of Technology and Metallurgy, Dept. of Metallurgy, Reports, Belgrade, 1983, 25 pages.

25. **V.R. Radmilović** and M. Rogulić, "Electron microscopy of aged aluminum alloys-I", University of Belgrade, Faculty of Technology and Metallurgy, Dept. of Metallurgy, Reports, Belgrade, 1983, 16 pages.

H. Department seminars, Colloquiums, Lectures, Invited talks

1. **Velimir Radmilović**, "Zigzag Inversion Domain Boundaries in Functional Oxide Nanowires", ICN2 Seminar Hall, ICN2 Building, Universitat Autonoma de Barcelona; July 17, 2015. (**Invited Depertment Seminar**)

2. **V.R. Radmilović**, "Aperiodic superlattices in functional oxide nanowires", Institute VINČA, May 13, 2015. (**Invited lecture)**

3. **V.R. Radmilović**, "Defects in Functional Oxide Nanowires", CENEM, Cluster of Excelanse, Universität Erlangen-Nürnberg, December 4, 2014. (**Invited talk**)

4. **V.R. Radmilović**, "Functional Oxide Aperiodic Superlattices", Laboratory of Physics of Complex Matter, Ecole Polytechnique Fédérale de Lausanne, EPFL, Lausanne, November 28, 2014 (**Invited talk, Department Seminar**).

5. **V.R. Radmilović**, "Zinc Oxide Nanowire Heterostructures", Max Planck Institute for the Science of Light, Universität Erlangen-Nürnberg, October 24, 2014. (**Invited lecture**)

6. **V.R. Radmilović**, "Functional Oxide Nanowires"", University of Genova, Italy, September 10, 2014., October 24, 2014. (**Invited lecture)**

   V.R. Radmilović, "Fucusse ion beam: Expirience at NCEM", University of Erlangen, May 22, 2014. (**Invited tutorial lecture**).

7. **V.R. Radmilović**, "Superlubricity in Gold", University of Erlangen, June 2, 2014. (**Invited lecture**).

8. **V.R. Radmilović**, "How Much Do We Know About Friction At Atomistic Level?", From Solid State to Biophysics, International Conference, June 7-14, 2014, Cavtat, Dubrovnik, Croatia. (**Invited plenary talk**)

9. **V.R. Radmilović**, "Aperiodic Superlattices in Functional Oxide Nanowires" Max Planck Institut, Center for Inteligeny Systems, Stuttgart, February 24, 2014. Department Colloquium (**invited talk**).

10. **V.R. Radmilović**, "Imaging of Light Elements and Single-Atomic Column Compositional Analysis in Core/shell Nanostructures", STEM Seminar, Max Planck Institut, Inteligent Systems; Februar 27, 2014; **(invited talk)**.

11. **V.R. Radmilović**, "Al_3(Li,Sc) Core/shell Monodisperse Nanostructures ", January 29, 2014; Department of Physics, University of Trondheim, Norway; **(invited talk)**.

12. **V.R. Radmilović**, "Functional Oxide Thermoelectrics: The Case of ZnO Nanowires", January 24, 2014; Department of Physics, University of Trondheim, Norway; **(invited talk)**.

13. V.R. Radmilović, "Is it possible to form monodisperse core/shell $L1_2$ nanostructures in solids?", European Synchrotron Research Facility (ESRF), Grenoble, France; December 12, 2013. (**invited talk**)

14. **V.R. Radmilović**, "Atomic Resolution Microscopy and Spectroscopy of Advanced Materials", Commissariat à l'énergie atomique (CEA), Grenoble, France; December 11, 2013. (**invited talk**)

15. **V.R. Radmilović**, "What do we know about friction at atomic level in gold?", The days of condensed matter phusics symposium, Serbian Academy of Sciences and Arts, September 10-12, 2013, Belgrade, Serbia. (**Invited plenary talk**).

16. **V.R. Radmilović**, "What advanced aberration corrected electron microscopy can tell us about friction at atomic level in gold?", the Scientific Symposium on Applications of Advanced Microscopy Techniques in Materials and Life Science,the National Institute of Chemistry, September 19, 2013, Ljubljana, Slovenia. (**invited talk**)

17. **V.R. Radmilović**, "Aberration Corrected Electron Microscopy of Nanoheterostructures", Chalmers University, March 25, 2013. **(Invited talk)**

18. **Velimir R. Radmilović**, "Interfaces in Nanostructures", Narvnoslovnotehniška fakulteta, Univerza v Ljubljani, March 15, 2013. **(Invited talk)**

19. **V.R. Radmilović**, "Ispitivanje graničnih površina u nanostrukturama na atomskom nivou", Crnogorska akademija nauka i umjetnosti (CANU), Podgorica, Crna Gora, 4. Marta, 2013, **(Invited talk)**

20. **V.R. Radmilović**, "Legure sa monodisperznim talozima formiranim reakcijama u čvrstom stanju", Pristupno predavanje na Odeljenju tehničkih nauka Srpske akademije nauka i umetnosti (SANU), 19.februara 2013.g.

21. **V.R. Radmilović**, "How To Control Phonon Transport in ZnO Thermoelectrics", Technical University of Dresden, 12/07/2012, Dresden, Germany; **(Department seminar - Invited talk)**

22. **V.R. Radmilović**,"The Role of Transmission Electron Microscopy and Spectroscopy in Development of Advanced Materials", Fraunhofer IZFP, 12/05/2012, Dresden, Germany; **(Invited talk)**

23. **V.R. Radmilović**, "Thermoelectrics go nano: Controlling thermal conductivity down to atomic level", University of Erlangen, 11/20/2012, Erlangen, Germany; **(Department seminar - Invited talk)**

24. **V.R. Radmilović**, "Integrative microscopy and collaborative research", NCEM-DOE Review, August 22-23, 2012, Berkeley, California. (**Invited Plenary talk**).

25. **V.R. Radmilović**, "Phonon Transport Control at Atomic Level in ZnO Nanowires", From Solid State to Biophysics, International Conference, June 9-16, 2012, Cavtat, Dubrovnik, Croatia. (**Invited plenary talk**)

26. **V.R. Radmilović**, "Can We Use Quantum Physics Tools to Control Thermoelectric Properties",

27. **V.R. Radmilović**, "Atomic resolution microscopy and spectroscopy of thermoelectric nanowires" Hungarian Microscopy Society Annual Meeting, May 10-12, 2012, Balaton Lake. (**Invited Plenary talk**)

28. **V.R. Radmilović**, "Da li se termoelektrične osobine ZnO nanožica mogu kontrolisati dizajniranjem strukture na atomarnom nivou", Univerzitet u Beogradu, Fizički fakultet, 25 apil, 2012.g. **(Predavanje po pozivu – Fakultetski seminar)**

29. **V.R. Radmilović**, "Application of electron microscopy and spectroscopy in characterization of nanostructures", The Institute of Physics and Chemistry of Materials of Strasbourg (IPNMS), CNRS and the University of Strasbourg, Strasbourgh, France, April 12, 2012. **(Department seminar - Invited talk)**

30. **V.R. Radmilović**, "Application of electron microscopy and spectroscopy in characterization of nanostructures", University of Ljubljana, Faculty of materials and Metallurgy, Ljubljana, April 3, 2012. **(Department seminar - Invited talk)**

31. **V.R. Radmilović**, "ZnO nanowires for thermoelectric applications", International Workshop on Modulation and Nanostructuring in Layered Materials, March 29-30, 2012, Institute of Physics, Zagreb, Croatia. **(Invited talk)**

32. **V.R. Radmilović**, "Is it possible to make ZnO oxide thermoelectrics more efficient", Institue Jozes Stefan, Ljubljana, December 2011. **(Invited talk)**

33. **V.R. Radmilović**, "Electron Microscopy and Spectroscopy of Complex Nanostructures", Institute for Electron Microscopy of the Technical University Graz (FELMI), Graz, Austria, December 2011. **(Invited talk)**

34. **V.R. Radmilović**, "How to create monodisperse core/shell precipitates in Al alloys using solid state reaction?", Department Materials Physics, University of Leoben, Leoben, Austria, December 2011. **(Invited talk)**

35. **V.R. Radmilović**, "Polytypoid Nanowires for Thermoelectric Applications", Physics of Nanostructured Materials, Faculty of Physics, University of Vienna, Vienna, Austria, December 2011. **(Department seminar - Invited talk)**

36. **V.R. Radmilović**, "ZnO Polytypoid Nanowires for Thermoelectric Applications", Faculty of Technology and Metallurgy University of Belgrade - Nanotechnology and Functional Materials Centre, International Workshop *on* Processing of Nanostructured Ceramics, Polymers, and Composites, Belgrade, Serbia, Oktobar 2011 **(Invited lecture).**

37. **V.R. Radmilović**, "Advanced Imaging and Biomedical Applications of Nanomaterials", SANU, Odeljenje tehničkih nauka i Odeljenje medicinskih nauka, 25. Oktobar 2011. **(Invited talk)**

38. Colin Ophus, Maarten de Jong, Mark Asta, Ulrich Dahmen, **Velimir R. Radmilović**, "Coherent precipitation in ternary Al alloys: insights from first-principles modeling", MS&T2011, Symposium in honor of John Cahn's receipt of the Gibbs prize. (**Invited lecture).**

39. Colin Ophus, Maarten De Jong, Mark Asta, Marcel Sluiter, Ulrich Dahmen, **Velimir R. Radmilović,** "Coherent Precipitation in Ternary Al Alloys", AIP Conference Proceedings 2012, American Institute of Physics, Ste. 1 NO 1 Melville NY 11747-4502 United States, 2012.

40. **V.R. Radmilović**, "Why Do We Need Aberration Corrected Microscopy"", University of Novi Sad, May 18, 2011, Novi Sad, Serbia, (**Invited lecture).**

41. C Ophus, A Gautam, E Marquis, **V.R. Radmilović**, U Dahmen, M Asta, "Combined Experimental and Theoretical Studies of Core-Shell Nanostructures in Al-Sc-Li Alloys", APS Meeting Abstracts, 2011, Volume 1, p. 32004.

42. Mark Asta, Colin Ophus, Abhay Raj Singh Gautam, Marta Rossell, Emmanuelle Marquis, **Velimir R. Radmilović**, Uli Dahmen, "Computational and Experimental Investigations of Core-Shell Precipitates in Al-Sc-Li Alloys", Minerals, Metals and Materials Society/AIME, 420 Commonwealth Dr., P. O. Box 430 Warrendale PA 15086 United States.[np]. Feb; (**Invited lecture).**

43. **V.R. Radmilović**, "Electron Microscopy in Materials Science and Engineering", Inauguration Ceremony for the membership in Academy of Engineering Sciences of Serbia, March 30, 2011, Belgrade, Serbia, (**Invited lecture).**

44. **V.R. Radmilović**, "Entropy Driven Nucleation of Monodisperse Core/shell Nanostructures", Oxford University, Departmnt of Materials, Oxford, December 9, 2010 (**Invited lecture).**

45. **V.R. Radmilović**, "High Resolution Microscopy and Spectroscopy of Monodisperse Al_3(LiSc) Core/shell Nanostructures", Departmnt of Materials, Imperial Cllege, December 7, 2010 (**Invited lecture).**

46. **V.R. Radmilović**, "High Resolution Microscopy and Spectroscopy of Monodisperse Al_3(LiSc) Core/shell Nanostructures", Lawrence Berkeley National Laboratory, National Center for Electron Microscopy, December 16, 2010 (**Invited lecture).**

47. **V.R. Radmilović**: "Graphene: A New Paradigm of Nanomaterials",Faculty of Technology and Metallurgy University of Belgrade - Nanotechnology and Functional Materials Centre, International Workshop *on* Processing of Nanostructured Ceramics, Polymers, and Composites, Belgrade, Serbia, November 29 - 30, 2010 **(Invited lecture).**

48. **V.R. Radmilović**:"Converging experiments and first principles calculations: Nucleation of complex $L1_2$ nanostructures", University of Montenegro, Podgorica, November 2, 2010, (**Invited lecture).**

49. **V.R. Radmilović**, "Imaging, spectroscopy and first-principles calculation of $L1_2$ nanostructures", PUC University, Rio de Janeiro, Brazil, September 24, 2010 (**Invited lecture).**

50. **V.R. Radmilović**, "Electron Microscopy and Spectroscopy in Nanostructure Characterization", Serbian Academy of Sciences and Arts (SASA), June 14, 2010, (**Invited lecture).**

51. **V.R. Radmilović**, "High-resolution electron microscopy and spectroscopy of nanostructures", Department of Physics, University of Wisconsin, April 2010, (**Invited lecture_Department Colloquium).**

52. **V.R. Radmilović**, "Core/shell $L1_2$ precipitates in Al-rich alloys", Materials Science and Engineering, Stanford University, February 2010, (**Invited lecture_Department Colloquium).**
53. **V.R. Radmilović**, "The use of high-resolution electron microscopy and spectroscopy to study core/shell nanostructures embedded in solids", Erelangen University, 2009 (**Department seminar, Invited lecture).**

54. **V.R. Radmilović**,"Nanocomposite Thin Films for MEMS and NEMS Applications", Institute of Physics, Belgrade, Serbia. **(Invited lecture)**

55. **V.R. Radmilović**, "TEAM Project: Application of aberration corrected microscopy in characterization of nanostructures", ITS-SASA, Belgrade, Serbia. **(Invited lecture)**

56. **V.R. Radmilović**, "Can metallic thin films be competitive to Si for MEMS and NEMS applications" ", Erelangen University, 2009 (**Graduate seminar series**, **Invited lecture).**

57. **V.R. Radmilović**, "Nanostructures Embedded in Solids", University of Ljubljana, Institute Jozef Stefan, June 13, 2008 (**Department seminar, Invited lecture).**

58. **V.R. Radmilović**, "Nanostructures Embedded in Solids", University of Nova Gorica, Ajdofčina, Slovenija, June 12, 2008 (**Department seminar, Invited lecture).**

59. **V.R. Radmilović**, "Coarsening of Core/Shell Nanostructures Embedded in Solids", Electron Microscopy Laboratory, University of Vienna, June 2007, **(Invited lecture).**

60. **V.R. Radmilović**, "Quantitative in-situ uniaxial compression testing of Nanostructured Pillars in a TEM". Deprtment of Physics, University off Vienna, June 2007. (Department seminar, **Invited lecture).**

61. **V.R. Radmilović**, "Can metallic thin films be competitive to silicon for NEMS applications". Faculty of Technology and Metallurgy, University of Belgrade, Belgrade, Serbia, June 2007. (Department seminar, **Invited lecture).**

62. **V.R. Radmilović**, "Can metallic thin films be competitive to silicon for NEMS applications". University of Montenegro, Podgorica, Montenegro, June 2007. (Department seminar, **Invited lecture).**

63. **V.R. Radmilović**, "Texture formation in polar crystals", Department of Physics, University of Antwerp, Antwerp, Belgium, June 2006 **(Invited lecture).**

64. **V.R. Radmilović**, "Precipitation kinetics in AlScZr alloys", National Institute for Materials Science, Tskuba, Japan, August 2006, **(Invited lecture).**

65. **V.R. Radmilović**, "Precipitation phenomena in AlScZr alloys", Purdue University, October 2006, (Department seminar, **Invited lecture)**.

66. **V.R. Radmilović**, "Alloy Design", March 2005, University of New Orleans, New Orleans, Louisiana, **(Invited lecture).**

67. **V.R. Radmilović**, "Transmission electron aberration corrected microscope-a new era in biological and materials sciences", Electron microscopy society of Serbia and Montenegro & Medical school, University of Belgrade, July 2005, **(Invited lecture).**

68. **V.R. Radmilović**, "Core-Shell precipitate structure in AlScZr alloys", University of Montenegro, Podgorica, Montenegro, September 2005, **(Invited lecture).**

69. **V.R. Radmilović**, "Formation of <111> fiber texture in β-SiC films deposited on Si(100) substrates", University of Alberta, Edmonton, October 2005 **(Invited lecture).**

70. **V.R. Radmilović**, "Precipitation hardening phenomena in Al-Si-Ge and Al-Cu-Si-Ge alloys", September 2004, Delft University, Delft, Holland, **(Invited lecture).**

71. **V.R. Radmilović**, "Nanopatterning by platinum deposition in a dual beam FIB", University of Belgrade, Belgrade, Serbia, September 2004, **(Invited lecture).**

72. **V.R. Radmilović**, "Structure and properties of nanovires", University of Montenegro, Podgorica, Montenegro, September 2004, **(Invited lecture).**

73. **V.R. Radmilović**, "Fundamentals of Alloy Design", October 2003, Vandebilt university, Neshville, Tennessee, **(Invited lecture).**

74. **V.R. Radmilović**, "TEM and CALPHAD assisted alloy design", Max Planck Institute, Dusseldorf, August 2002. **(Invited lecture).**

75. **V.R. Radmilović**, "TEM and CALPHAD assisted alloy design", University of Pretoria, Pretoria, South Africa, August 2002. **(Invited lecture)**.

76. **V.R. Radmilović**, "High resolution electron microscopy assisted alloy design", National Center for Electron Microscopy, Lawrence Berkeley National Laboratory, University of California, Berkeley, February 2001 **(invited lecture).**

77. **V.R. Radmilović**, "Precipitation and strengthening phenomena in Al-Si-Ge and Al-Si-Ge-Cu alloys", Hungarian academy of science, Budapest, April 2001**(invited lecture).**

78. **V.R. Radmilović**, "Microalloying in aluminum alloy design", University of Montenegro, Podgorica, Montenegro, Yugoslavia, May 2001 **(invited lecture).**

79. **V.R. Radmilović**, "Microstructural characterization of Platinum based electrocatalysts", Materials Science Division, Lawrence Berkeley National Laboratory, University of California, Berkeley, June 2001.

80. **V.R. Radmilović**, "Structure and morphology of S-phase precipitates in aluminum alloys", University of Pittsburgh, School of Engineering, March 2000 **(invited lecture).**

81. **V.R. Radmilović**, "Crystal and interfaces structure determination of Al_2CuMg precipitate in aluminum by quantitative high resolution electron microscopy", University of Toronto, Faculty of Applied Science and Engineering, March 2000 **(invited lecture).**

82. **V.R. Radmilović**, "Structure determination and structure refinment of Al_2CuMg precipitates by quantitative high resolution electron microscopy", Aluminum company of America, ALCOA Technical Center, Pittsburgh, PA, March 2000 **(invited lecture).**

83. **V.R. Radmilović**, "Precipitation phenomena in super-saturated solid solutions", Oak Ridge National Laboratory, Oak Ridge, Tennessee, May 2000.

84. **V.R. Radmilović**, "Structure of S-phase in Al-based alloys", National Center for Electron Microscopy, Lawrence Berkeley National Laboratory, University of California, Berkeley, October 1998 **(invited lecture).**

85. **V.R. Radmilović**, "Physical metallurgy fundamentals of Al-Li based alloys", University "St. Kiril & Metodij", Skopje, Macedonia, May 1997. **(Invited lecture).**

86. **V.R. Radmilović**, "High resolution electron microscopy - Application in materials science", University of Maryland, August 1997 **(invited lecture).**

87. **V.R. Radmilović**, "Structure and chemical composition of Pt-Ru catalysts", University of Pittsburgh, USA, September 20, 1994. **(Invited lecture).**

88. **V.R. Radmilović**, "Structure, morphology and distribution of Pt-Ru nanoparticles supported on carbon black", Materials Science Division, Lawrence Berkeley Laboratory, University of California, Berkeley, USA, August 1994.

89. **V.R. Radmilović**, "S-phase precipitation in Al-based alloys", General Motors-Technical Center, Detroit, August 1997 **(invited lecture).**

90. **V.R. Radmilović**, "Atomic resolution microscopy of Pt-Ru nanoparticles - Fresnel effect", National Center for Electron Microscopy, University of California, Berkeley, USA, September 1994.

91. **V.R. Radmilović**, "Precipitation sequences in Al based alloys", Allied Signal research laboratory, New Jersey, July 1993. **(Invited lecture).**

92. **V.R. Radmilović**, "Al-Nd-Zn nanophase particles in Al based alloys", University of Pittsburgh, USA, August 1993. **(Invited lecture).**

93. **V.R. Radmilović**, "Non stoichiometry of Al-Zr intermetallic compounds", Allied Signal research laboratory, New Jersey, July 1994. **(Invited lecture).**

94. **V.R. Radmilović**, "Aluminium matrix based composite materials", Technical Faculty Bor, Belgrade University, March 1992. **(Invited lecture).**

95. **V.R. Radmilović**, "Metal matrix composites-State of art and contemporary trends", University of Montenegro, Podgorica, March 1992. **(Invited lecture).**

96. **V.R. Radmilović**, "Electron microscopy studies of precipitation in aluminum alloys", University of Pittsburgh, USA, June 1992. **(Invited lecture).**

97. **V.R. Radmilović**, "High resolution electron microscopy studies of S-phase (Al_2CuMg) in aluminum alloys", McMaster University, Canada, July 1992. **(Invited lecture).**

98. **V.R. Radmilović**, "Equilibrium and non-equilibrium phases in Al-Zr alloys", University of Toronto, Canada, June 1992. **(Invited lecture).**

99. **V.R. Radmilović**, "Precipitation phenomena in aluminum lithium alloys", ALCOA-Aluminum Company of America, Research and Development Center, Pittsburgh, USA, August 1992. **(Invited lecture).**

100. **V.R. Radmilović**, "Coherent and Non coherent Al_3Zr precipitates in Al-Zr and Al-Li-Zr alloys", Allied Signal research laboratory, New Jersey, June 1992. **(Invited lecture).**

101. **V.R. Radmilović**, "High resolution electron microscopy as a microbeam analytical tool", QMA'92, 40th Scottish summer school on quantitative microanalysis, Dundee, Scotland, 1992. **(Invited lecture).**

102. **V.R. Radmilović**, "Al-Zr alloys", University of California, Berkeley, Professor Gareth Thomas' research group seminar, September 1991.

103. **V.R. Radmilović**, "Lithium detection using critical voltage experiment", University of Virginia, Charlottesville, August, 1988 **(invited lecture).**

104. **V.R. Radmilović**, "Ordering reaction in Al-Li base alloys", University of Pittsburgh, Pittsburgh, PA, September, 1988 **(invited lecture).**

105. **V.R. Radmilović**, "Spinodal decomposition and heterogeneous precipitation in Al-Li-based alloys", Serbian Chemical Society, Metallurgical section, Belgrade, October 1988. **(Invited lecture).**

106. **V.R. Radmilović**, "Precipitation reactions in Al-Li alloys", University of California, Berkeley, September 1987.

107. **V.R. Radmilović**, "Current objective of Al-Li alloys", Exxon research laboratory, New Jersey, May 1987. **(Invited lecture).**

108. **V.R. Radmilović**, "Recent results in Al-Li alloy development", Serbian Chemical Society, Metallurgical section, Belgrade, October 1987. **(Invited lecture).**

109. **V.R. Radmilović**, Series of lectures in the course: "Scanning and transmission electron microscopy", University of Belgrade, Faculty of Technology and Metallurgy, Dept. of Metallurgy, Belgrade, June 1983.

I. Text-books, lecture notes, chapters in the books and invited papers

1. **V.R. Radmilović**, "Phase transformations in solids", Authorized Lecture notes, (1993), 284 pages, Department of Physical Metallurgy, University of Belgrade.

2. **V.R. Radmilović**, "Fundamental of Crystallography and Diffraction", Authorized Lecture notes, (1993), 96 pages, Department of Physical Metallurgy, University of Belgrade.

3. N.M. Marković, **V.R. Radmilović** and P.N. Ross, "Physical and Electrochemical Characterization of Bimetallic Nanoparticle Electrcatalysts"; in: Catalysis and Electrocatalysis at Nanoparticle Surfaces, Eds.: E. Savinova, K. Vayenas and A. Wieckovski, Marcel Dekker Publ., 2003, pp. 311-342. (**Invited chapter**)

4. Albert Dato, **Velimir R. Radmilović** and Michael Frenklach, "Synthesis, Characterization, and Biomedical Applications of Graphene", in: Carbon Nanomaterials, Edited by Challa S. S. R. Kumar, ISBN: 9783527321698; Wiley-VCH Verlag GmbH; 2011, Binding: Hardback, 482 pages. (**Invited chapter**)

5. **Velimir R. Radmilović**, "Imaging of Core/shell Nanostructures Embedded in Solid", European Microscopy Society; EMS Yearbook 2013, pp. 18-20; ISSN: 1609-1191. (http://www.eurmicsoc.org/yearbook.html). (**Invited paper**)

J. Patents and Patent Disclosures

1. D. Mitlin, C. Ophus, S. Evoy, **V.R. Radmilović**, R. Mohammadi, K. Westra, N. Nelson-Fitzpatrick, and Z. Lee: "Nanocomposite films", 2010, United States patent No. 7758708; issued on July 20, 2010.

2. Christopher Harrower, David Mitlin, Erik Luber, Colin Ophus, Brian Olsen, **Velimir R. Radmilović**, "AFM Probes Fabricated from Cu-Hf Thin Films", U.S. Provisional Patent Application Serial No. 61/317,595.

3. E.J. Luber, B.C. Olsen, C. Ophus, D. Mitlin, **V.R. Radmilović**, "Micro/Nano Devices Fabricated from Cu-Hf T hin Films", US Provisional Patent Application, ser. no. 13/072,343: filed Mar. 25/11(2008062). **United States patent No. 8458811**, issued on June 6, 2013.

4. David Mitlin, Colin Ophus, Stephane Evoy, **Velimir R. Radmilović**, Reza Mohammadi, Ken Westra, Nathaniel Nelson-Fitzpatrick, Zonghoon Lee: Nanocomposite films. The Governors Of The University Of Alberta July 2008: **United States patent No. 20080171219**.

5. T. Devine, Y. Suzuki, T.S. Mintz, Y.B. Bhargava, S. Thorne, and **V.R. Radmilović**, "Oxide nanowires", U.S. patent disclosure submitted, patent application in progress, (2005).

6. **V.R. Radmilović**, D. Mitlin and U. Dahmen, "Ultra-Hard, Ductile and Conductive Al-Si Nanocomposites Synthesized by High Rate Co-Evaporation", U.S. patent disclosure submitted, patent application in progress, (2005).

7. D. Mitlin, C. Ophus, S. Evoy, **V.R. Radmilović** and U. Dahmen, "NEMS cantilevers synthesized from atomically-smooth amotphous-nanocrystalline aluminum alloys", patent disclosure submitted, patent application in progress, (2006).

8. D. Mitlin, M. Brougham, C. Ophus, C. Harrower, J. Fraser Forbes and **V.R. Radmilović**, "A method for Room-temperature synthesis of highly crystallographically oriented nanocrystalline AIN films using an amorphous nanocrystalline metallic AlMo substrate", 2007, patent pending.

9. Thomas Duden and **Velimir R. Radmilović**, "Interferometric Tapered Fiber Based Displacement Sensor for Nanostructure Characterization", U.S. patent disclosure submitted, patent application in progress, (2008).

10. M. Freklach, A. Dato, **V.R. Radmilović**, and Z. Lee, "Substrate-Free Gas-Phase Synthesis of Graphene Sheets in a Microwave Plasma Reactor", patent application in progress, (2008-05-18), UC Case No: B09-050-1 PRV. Application Number: 12782596.