

SUMMARY

Nature 4, Science 4, Nature Physics 2, Nature Materials 5, Nature Nanotechnology 2, Nature Communications 1, Physical Review Letters 11, Europhysics Letters 1, Applied Physics Letters 9, Nano Letters 1, Advanced Materials 1, PNAS 1, Physical Review B 39 (Rapid Communications 12).

Total Letters and Rapid Communications: 51

Total papers in refereed scientific journals: 182

Invited papers in refereed conference proceedings: 22

Review chapters in books: 8

Total research papers: 237

Books and monographs: coauthored 1, (co)edited 11

Patents: 6 issued (listed below) and several pending (not listed here).

13 research papers labeled with an asterisk (# 197, 173, 168, 156, 152, 150, 139, 137, 91, 64, 63, 45, 42) are “classics”, each one cited between 100 and 600 times; few more are getting there.

The total number of citations: well over 6,500 are recorded in Google Scholar just for the journal papers cited in other journal papers, with the Hirsch index $h = 41$ and g-index $g = 76$. This does not include citations of these papers in textbooks, proceedings, PhD theses, patents, etc., nor any citations of the remaining 49 papers from this list.

The list of scientists that cited some of these papers include 12 Nobel Laureates (J. Bardeen, N. Mott, V. L. Ginzburg, P. W Anderson, J. R. Schrieffer, A. Leggett, A. Heeger, K. A. Mueller, G. Bednorz, R. Laughlin, A. Abrikosov and R. Hoffmann). In particular, P. W. Anderson devoted several pages in his book on high-temperature superconductivity to the results from paper #113.

THE LIST OF PUBLICATIONS (in reverse chronological order)

254. J. Wu, A. T. Bollinger, Y.-J. Sun and I. Božović, “Hall Effect in quantum critical charge-cluster glass”, under review in *Nature Materials* (2015).

253. S. Dietrich, W. Mayer, S. Vitkalov, A. Sergeev, A. T. Bollinger and I. Božović, “Frequency dispersion of nonlinear response in films of cuprate superconductors”, submitted to Phys. Rev. B (2015).

252. V. A. Gasparov, X. He, G. Dubuis, D. Pavuna, N. D. Kushch, E. B. Yagubskii, J. A. Schlueter and I. Bozovic, "Magnetic field, frequency and temperature dependence of complex conductance of ultrathin $\text{La}_{1.65}\text{Sr}_{0.45}\text{CuO}_4/\text{La}_2\text{CuO}_4$ films and the organic superconductors \square - (BEDT-TTF) $_2\text{Cu}[\text{N}(\text{CN})_2\text{Br}]$ ", to appear in *Physica C* (2015).
251. X. Leng and I. Bozovic, "Controlling superconductivity in $\text{La}_{2-x}\text{Sr}_x\text{CuO}_{4+\delta}$ by ozone and vacuum annealing", *Journal of Superconductivity and Novel Magnetism* 28, 71-74 (2015).
250. I. Bozovic and C. Ahn, "A new frontier for superconductivity", *Nature Physics* 10, 892-895 (2014).
249. G. Dubuis, X. He and I. Božović, "Ultra-thermal-stabilization of a closed cycle cryocooler", *Rev. Sci. Instr.* 85, 103902 (2014).
248. N. E. Litombe, A. T. Bollinger, J. E. Hoffman and I. Božović, "La $_{2-x}$ Sr $_x$ CuO $_4$ Superconductor Nanowire Devices", *Physica C* 506, 169-173 (2014).
247. F. Zheng, G. Logvenov, I. Bozovic, Y. Zhu and J. He, "Structural origin of enhanced critical temperature in ultrafine multilayers of cuprate superconducting films", *Phys. Rev. B* 89, 184509 (2014).
246. S. Smadici, G. Logvenov, I. Bozovic and P. Abbamonte, "Sequence of hole resonances in complex oxide heterostructures". *J. Phys. Cond. Mat.* 26, 155302 (2014).
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244. S. Smadici, J. C. T. Lee, G. Logvenov, I. Bozovic and P. Abbamonte, "Form factor dispersion at La M $_{5/4}$ edges and average density of resonant atoms", *J. Phys.: Condens. Matter* 26, 025303 (2014).
243. M. P. M. Dean, G. Dellea, R. S. Springell, F. Yakhou-Harris, K. Kummer, N. B. Brookes, X. Liu, Y.-J. Sun, J. Strle, T. Schmitt, L. Braicovich, G. Ghiringhelli, I. Bozovic and J. P. Hill, "Persistence of magnetic excitations in $\text{La}_{2-x}\text{Sr}_x\text{CuO}_4$ from the undoped insulator to the heavily overdoped non-superconducting metal", *Nature Materials* 12, 1019-23 (2013).
242. G. Dubuis, A. T. Bollinger, D. Pavuna and I. Božović, "On Field Effect Studies and Superconductor-Insulator Transition in High- T_c Cuprates", invited paper *Eur. Phys. J. Special Topics* 222, 1217–1221 (2013).
241. J. Wu, O. Pelleg, G. Logvenov, A. T. Bollinger, Y. Sun, G. S. Boebinger, M. Vanević, Z. Radović and I. Božović, "Anomalous independence of interface superconductivity on carrier density", *Nature Materials* 12, 877-881 (2013).

240. D. H. Torchinsky, F. Mahmood, A. T. Bollinger, I. Božović and N. Gedik, “Fluctuating charge density waves in a cuprate superconductor”, *Nature Materials* 12, 387-391 (2013).
239. G. Logvenov, A. M. Gozar and I. Bozovic, “High Temperature Interface Superconductivity”, *Journal of Superconductivity and Novel Magnetism* 6, 2863-5 (2013).
238. G. Dubuis, A. T. Bollinger, D. Pavuna and I. Božović, “Critical Resistance at the Superconductor-Insulator Transition in Hole-doped Cuprates”, *Journal of Superconductivity and Novel Magnetism* 26, 749-754 (2013).
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236. X. Shi, D. Popović, C. Panagopoulos, G. Logvenov, A. T. Bollinger and I. Bozovic, “Emergence of superconductivity from the dynamically heterogeneous insulating state in $\text{La}_{2-x}\text{Sr}_x\text{CuO}_4$ ”, *Nature Materials* 12, 47-51 (2013).
235. E. Stilp, A. Suter, T. Prokscha, E. Morenzoni, H. Keller, B. M. Wojek, H. Luetkens, A. Gozar, G. Logvenov and I. Bozovic, “Magnetic phase diagram of low-doped $\text{La}_{2-x}\text{Sr}_x\text{CuO}_4$ thin films studied by low-energy muon-spin rotation”, *Phys. Rev. B* 88, 064419 (2013).
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229. V. Gasparov and I. Božović, “Magnetic field and temperature dependence of complex conductance of ultrathin $\text{La}_{1.65}\text{Sr}_{0.45}\text{CuO}_4/\text{La}_2\text{CuO}_4$ films”, *Phys. Rev. B* 86, 094523 (2012).

228. A. T. Bollinger, J. N. Eckstein, G. Dubuis, D. Pavuna and I. Božović, “Atomic-Layer Engineering of Oxide Superconductors”, in *Oxide-based Materials and Devices III*, edited by F. H. Teherani, D. C. Look and D. J. Rogers, Proc. SPIE **8263**, 82631C (2012)
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