

Lilia Boeri

List of Publications by Year in descending order

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75
papers

3,945
citations

117453

34
h-index

118652

62
g-index

75
all docs

75
docs citations

75
times ranked

3490
citing authors

#	ARTICLE	IF	CITATIONS
1	The 2021 room-temperature superconductivity roadmap. Journal of Physics Condensed Matter, 2022, 34, 183002.	0.7	79
2	First-principles search of hot superconductivity in La-X-H ternary hydrides. Npj Computational Materials, 2022, 8, .	3.5	25
3	High- T_c superconductivity in doped boron-carbon clathrates. Physical Review B, 2022, 105, .	2.8	23
4	In-silico synthesis of lowest-pressure high- T_c ternary superhydrides. Npj Computational Materials, 2022, 8, .	3.5	25
5	Towards high- T_c low-pressure superconductivity in ternary superhydrides. Physical Review B, 2021, 104, .	1.1	95
6	Fused borophenes: A new family of superhard light-weight materials. Physical Review Materials, 2021, 5, .	0.9	5
7	Special issue on novel superconducting and magnetic materials. Journal of Physics Condensed Matter, 2020, 32, 040401.	0.7	0
8	Phase diagram and superconductivity of calcium borohydrides at extreme pressures. Physical Review B, 2020, 102, .	1.1	41
9	High-temperature conventional superconductivity in the boron-carbon system: Material trends. Physical Review B, 2020, 102, .	1.1	16
10	A perspective on conventional high-temperature superconductors at high pressure: Methods and materials. Physics Reports, 2020, 856, 1-78.	10.3	304
11	Understanding Novel Superconductors with Ab Initio Calculations. , 2020, , 73-112.		0
12	Superconductivity in sodalite-like yttrium hydride clathrates. Physical Review B, 2019, 99, .	1.1	92
13	Viewpoint: the road to room-temperature conventional superconductivity. Journal of Physics Condensed Matter, 2019, 31, 234002.	0.7	31
14	Ab initio prediction of a two-dimensional variant of the iridate IrO_2 . Physical Review B, 2019, 100, .	1.4	13
15	Conventional/unconventional superconductivity in high-pressure hydrides and beyond: insights from theory and perspectives. Quantum Studies: Mathematics and Foundations, 2018, 5, 5-21.	0.4	9
16	Understanding Novel Superconductors with Ab Initio Calculations. , 2018, , 1-41.		1
17	Ab initio study of ABiO_3 (ABiO_3) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 97 Td	1.3	13
18	Superconductivity in doped polyethylene at high pressure. European Physical Journal B, 2018, 91, 1.	0.6	8

#	ARTICLE	IF	CITATIONS
19	Lattice dynamics of the cluster chain compounds M_2		

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37	Functional renormalization group study of an eight-band model for the iron arsenides. Physical Review B, 2014, 89, .	1.1	12
38	Combined experimental and computational study of the pressure dependence of the vibrational spectrum of solid picene C ₂₂ H ₁₄ A ₄ Pt ₄ . Physical Review B, 2013, 88, .	1.1	25
39			

#	ARTICLE	IF	CITATIONS
55	Energy Gaps and Kohn Anomalies in Elemental Superconductors. <i>Science</i> , 2008, 319, 1509-1512.	6.0	60
56	Pressure effects on the superconducting transition in CaAlSi . <i>Physical Review B</i> , 2008, 77, .	1.1	10
57	Optical properties of CaAlSi under high pressure. <i>Physical Review B</i> , 2008, 77, .	1.1	10
58	Linear response separation of a solid into atomic constituents: Li, Al, and their evolution under pressure. <i>Physical Review B</i> , 2007, 75, .	1.1	3
59	Electron-phonon interaction in graphite intercalation compounds. <i>Physical Review B</i> , 2007, 76, .	1.1	59
60	Superconductivity in Heavy Alkaline-Earth Intercalated Graphites. <i>Physical Review Letters</i> , 2007, 99, 027001.	2.9	68
61	Unresolved problems in superconductivity of CaC_6 . <i>Physica C: Superconductivity and Its Applications</i> , 2007, 460-462, 116-120.	0.6	37
62	Electron-phonon superconductivity in hole-doped diamond: A first-principles study. <i>Journal of Physics and Chemistry of Solids</i> , 2006, 67, 552-556.	1.9	14
63	Normal and superconducting state properties of B-doped diamond from first-principles. <i>Science and Technology of Advanced Materials</i> , 2006, 7, S54-S59.	2.8	4
64	Specific Heat of the Ca-Intercalated Graphite Superconductor CaC_6 . <i>Physical Review Letters</i> , 2006, 96, 217002.	2.9	66
65	Effect of pressure on superconducting Ca-intercalated graphite CaC_6 . <i>Physical Review B</i> , 2006, 74, .	1.1	72
66	Momentum-Resolved Electron-Phonon Interaction in Lead Determined by Neutron Resonance Spin-Echo Spectroscopy. <i>Physical Review Letters</i> , 2006, 96, 225501.	2.9	15
67	Small Fermi energy, zero-point fluctuations, and nonadiabaticity in MgB_2 . <i>Physical Review B</i> , 2005, 71, .	1.1	40
68	Electrons and phonons in the ternary alloy CaAl_2Si_x as a function of composition. <i>Physical Review B</i> , 2005, 72, .	1.1	54
69	Small Fermi energy effects in MgB_2 and related compounds. <i>Physica C: Superconductivity and Its Applications</i> , 2004, 408-410, 332-333.	0.6	1
70	Three-Dimensional MgB_2 -Type Superconductivity in Hole-Doped Diamond. <i>Physical Review Letters</i> , 2004, 93, 237002.	2.9	226
71	Poor screening and nonadiabatic superconductivity in correlated systems. <i>Physical Review B</i> , 2003, 68, .	1.1	6
72	NONADIABATIC EFFECTS AND THE ROLE OF SMALL FERMI ENERGY IN MgB_2 . <i>International Journal of Modern Physics B</i> , 2003, 17, 560-566.	1.0	1

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73	The origin of phonon anharmonicity in MgB2 and related compounds. Superconductor Science and Technology, 2003, 16, 143-146.	1.8	3
74	Small Fermi energy and phonon anharmonicity in MgB2 and related compounds. Physical Review B, 2002, 65, .	1.1	56
75	EFFECT OF STRONG CORRELATION ON THE ELECTRON-PHONON INTERACTION. International Journal of Modern Physics B, 2000, 14, 2970-2975.	1.0	1