

Fabio Bernardini

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

97
papers

7,721
citations

31
h-index

87
g-index

107
ext. papers

8,441
ext. citations

3.2
avg. IF

5.83
L-index

#	Paper	IF	Citations
97	Topotactic fluorination of intermetallics as an efficient route towards quantum materials.. <i>Nature Communications</i> , 2022 , 13, 1462	17.4	0
96	A UHF-RFID multi-antenna sensor fusion enables item and robot localization. <i>IEEE Journal of Radio Frequency Identification</i> , 2022 , 1-1	2.4	0
95	Geometric effects in the infinite-layer nickelates. <i>Physical Review Materials</i> , 2022 , 6,	3.2	2
94	The MONITOR Project: RFID-based Robots enabling real-time inventory and localization in warehouses and retail areas 2021 ,		1
93	Nickelate Superconductors: An Ongoing Dialog between Theory and Experiments. <i>Journal of Experimental and Theoretical Physics</i> , 2021 , 132, 618-627	1	12
92	Single-layer TStype nickelates: Ni ¹⁺ is Ni ¹⁺ . <i>Physical Review Materials</i> , 2021 , 5,	3.2	2
91	Intrinsic thermoelectric figure of merit of bulk compositional SiGe alloys: A first-principles study. <i>Physical Review Materials</i> , 2021 , 5,	3.2	4
90	Robot-Based Indoor Positioning of UHF-RFID Tags: The SAR Method With Multiple Trajectories. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2021 , 70, 1-15	5.2	29
89	A Synthetic Aperture UHF RFID Localization Method by Phase Unwrapping and Hyperbolic Intersection. <i>IEEE Transactions on Automation Science and Engineering</i> , 2021 , 1-13	4.9	9
88	Infinite-layer fluoro-nickelates as d 9 model materials. <i>JPhys Materials</i> , 2020 , 3, 035003	4.2	9
87	Particle Swarm Optimization in SAR-Based Method Enabling Real-Time 3D Positioning of UHF-RFID Tags. <i>IEEE Journal of Radio Frequency Identification</i> , 2020 , 4, 300-313	2.4	19
86	Ab initio many-body GW correlations in the electronic structure of LaNiO ₂ . <i>Physical Review B</i> , 2020 , 101,	3.3	22
85	Magnetic penetration depth and T _c in superconducting nickelates. <i>Physical Review Research</i> , 2020 , 2,	3.9	16
84	Stability and electronic properties of LaNiO ₂ /SrTiO ₃ heterostructures. <i>JPhys Materials</i> , 2020 , 3, 03LT01	4.2	19
83	Special issue on novel superconducting and magnetic materials. <i>Journal of Physics Condensed Matter</i> , 2020 , 32, 040401	1.8	
82	Towards a Multi-antenna approach for UHF-RFID tag 3D localization with a Synthetic Aperture Radar Method 2019 ,		5
81	Evidence of the isoelectronic character of F doping in SmFeAsO F : a first-principles investigation. <i>Journal of Physics Condensed Matter</i> , 2019 , 31, 244001	1.8	2

80	Magnetic competition in Fe-based germanide and silicide superconductors. <i>Europhysics Letters</i> , 2019 , 128, 47004	1.6	1
79	Particle Swarm Optimization in Multi-Antenna SAR-based Localization for UHF-RFID Tags 2019 ,		9
78	Disorder-induced localisation and suppression of superconductivity in YSrCuO. <i>Journal of Physics Condensed Matter</i> , 2019 , 31, 284001	1.8	1
77	Iron-based superconductivity extended to the novel silicide LaFeSiH. <i>Physical Review B</i> , 2018 , 97,	3.3	15
76	The puzzling structure of CuFeS (bornite) at low temperature. <i>Acta Crystallographica Section B: Structural Science, Crystal Engineering and Materials</i> , 2018 , 74, 405-415	1.8	4
75	Origin of the critical temperature discontinuity in superconducting sulfur under high pressure. <i>Physical Review B</i> , 2017 , 95,	3.3	14
74	Quantum oscillations in the SmFeAsO parent compound and superconducting SmFeAs(O,F). <i>Physical Review B</i> , 2017 , 96,	3.3	5
73	The phase diagrams of iron-based superconductors: Theory and experiments. <i>Comptes Rendus Physique</i> , 2016 , 17, 5-35	1.4	35
72	Unconventional Disorder Effects in Correlated Superconductors. <i>Physical Review Letters</i> , 2016 , 117, 257002	3.3	19
71	Understanding the BR spectra of MnSi without magnetic polarons. <i>Physical Review B</i> , 2014 , 89,	3.3	30
70	A magnetic glassy phase in Fe(1+y)Se(x)Te(1-x) single crystals. <i>Journal of Physics Condensed Matter</i> , 2013 , 25, 156004	1.8	7
69	Role of Dirac cones in magnetotransport properties of REFeAsO (RE = rare earth) oxypnictides. <i>European Physical Journal B</i> , 2013 , 86, 1	1.2	15
68	Theoretical investigation of FeTe magnetic ordering under hydrostatic pressure. <i>Physical Review B</i> , 2013 , 87,	3.3	16
67	Ab initio strategy for muon site assignment in wide band gap fluorides. <i>Physical Review B</i> , 2013 , 87,	3.3	38
66	Common effect of chemical and external pressures on the magnetic properties of RCoPO (R = La, Pr). <i>Physical Review B</i> , 2013 , 87,	3.3	29
65	Playing quantum hide-and-seek with the muon: localizing muon stopping sites. <i>Physica Scripta</i> , 2013 , 88, 068510	2.6	48
64	Effect of external pressure on the magnetic properties of LnFeAsO (Ln = La, Ce, Pr, Sm). <i>Superconductor Science and Technology</i> , 2012 , 25, 084009	3.1	29
63	Universal conductivity and the electrodynamics of graphite at high pressures. <i>Physical Review B</i> , 2012 , 86,	3.3	1

62	Effects of isoelectronic Ru substitution at the Fe site on the energy gaps of optimally F-doped SmFeAsO. <i>Superconductor Science and Technology</i> , 2012 , 25, 084012	3.1	11
61	Magnetotransport in La(Fe,Ru)AsO as a probe of band structure and mobility. <i>Physical Review B</i> , 2011 , 84,	3.3	37
60	Theoretical investigation of optical conductivity in Ba(Fe _{1-x} Cox) ₂ As ₂ . <i>Physical Review B</i> , 2011 , 83,	3.3	18
59	Isoelectronic Ru substitution at the iron site in SmFe _{1-x} RuxAsO _{0.85} F _{0.15} and its effects on structural, superconducting, and normal-state properties. <i>Physical Review B</i> , 2010 , 81,	3.3	61
58	Influence of Mg deficiency on crystal structure and superconducting properties in MgB ₂ single crystals. <i>Physical Review B</i> , 2010 , 81,	3.3	20
57	Static and dynamical susceptibility of LaO _{1-x} FxFeAs. <i>Physical Review B</i> , 2010 , 81,	3.3	6
56	Multiband conductivity and a multigap superconducting phase in V ₃ Si films from optical measurements at terahertz frequencies. <i>Physical Review B</i> , 2010 , 81,	3.3	19
55	Multiband superconductivity in Pb, H under pressure and CaBeSi from ab initio calculations. <i>Journal of Physics Condensed Matter</i> , 2009 , 21, 164209	1.8	9
54	The role of Coulomb interaction in the superconducting properties of CaC ₆ and H under pressure. <i>Superconductor Science and Technology</i> , 2009 , 22, 034006	3.1	29
53	Electronic and structural properties of Li _{1-x} Al co-doped MgB ₂ . <i>Physica C: Superconductivity and Its Applications</i> , 2007 , 460-462, 566-567	1.3	
52	First-principle investigation of native and impurity defects in MgB ₂ . <i>Europhysics Letters</i> , 2006 , 76, 491-497	4.7	10
51	Effect of magnetic impurities in a two-band superconductor: a point-contact study of mn-substituted single crystals. <i>Physical Review Letters</i> , 2006 , 97, 037001	7.4	31
50	Anomalous effect of Li-Al codoping in MgB ₂ : A simple explanation. <i>Physical Review B</i> , 2006 , 74,	3.3	20
49	Interaction of doping impurities with the 30° partial dislocations in SiC: An ab initio investigation. <i>Physical Review B</i> , 2005 , 72,	3.3	15
48	Energetic stability and magnetic properties of Mn dimers in silicon. <i>Applied Physics Letters</i> , 2004 , 84, 2289-2291	3.4	51
47	Energetics of native point defects in cubic silicon carbide. <i>European Physical Journal B</i> , 2004 , 38, 437-444	1.2	20
46	Defect energetics of SiC using a new tight-binding molecular dynamics model. <i>Journal of Nuclear Materials</i> , 2004 , 329-333, 1219-1222	3.3	18
45	CORRELATION BETWEEN LOCAL OXYGEN DISORDER AND ELECTRONIC PROPERTIES IN SUPERCONDUCTING RESR ₂ CU ₃ O _{6+x} (RE = Y, YB). <i>International Journal of Modern Physics B</i> , 2003 , 17, 873-878	1.1	3

44	Electronic, dynamical and superconducting properties of MgB ₂ : doping, surface and pressure effects. <i>Superconductor Science and Technology</i> , 2003 , 16, 137-142	3.1	1
43	Electronics and sensors based on pyroelectric AlGa _N /Ga _N heterostructures. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2003 , 1878-1907		56
42	Bi incorporation in Ga _N and Al _x Ga _{1-x} N alloys. <i>Physical Review B</i> , 2003 , 68,	3.3	3
41	Nonlinear Behavior of Spontaneous and Piezoelectric Polarization in III _V Nitride Alloys. <i>Physica Status Solidi A</i> , 2002 , 190, 65-73		39
40	Stability of Ge-related point defects and complexes in Ge-doped SiO ₂ . <i>Physical Review B</i> , 2002 , 66,	3.3	15
39	Electronic and dynamical properties of the MgB ₂ surface: Implications for the superconducting properties. <i>Physical Review B</i> , 2002 , 66,	3.3	10
38	Self-interstitial trapping by carbon complexes in crystalline silicon. <i>Physical Review B</i> , 2002 , 66,	3.3	42
37	ELECTRONIC AND DYNAMICAL PROPERTIES OF MgB ₂ AND RELATED COMPOUNDS. <i>International Journal of Modern Physics B</i> , 2002 , 16, 1563-1569	1.1	4
36	Evidence for nonlinear macroscopic polarization in III _V nitride alloy heterostructures. <i>Applied Physics Letters</i> , 2002 , 80, 1204-1206	3.4	607
35	First-principles calculation of the piezoelectric tensor d ₃₃ of III _V nitrides. <i>Applied Physics Letters</i> , 2002 , 80, 4145-4147	3.4	107
34	Pyroelectric properties of Al(In)Ga _N /Ga _N hetero- and quantum well structures. <i>Journal of Physics Condensed Matter</i> , 2002 , 14, 3399-3434	1.8	689
33	First-principles prediction of structure, energetics, formation enthalpy, elastic constants, polarization, and piezoelectric constants of AlN, GaN, and InN: Comparison of local and gradient-corrected density-functional theory. <i>Physical Review B</i> , 2001 , 64,	3.3	366
32	Nonlinear macroscopic polarization in III-V nitride alloys. <i>Physical Review B</i> , 2001 , 64,	3.3	238
31	Electronic and structural properties of superconducting MgB ₂ , CaSi ₂ , and related compounds. <i>Physical Review B</i> , 2001 , 64,	3.3	126
30	MgB ₂ and BeB ₂ : A comparative study of their electronic and superconducting properties. <i>Physical Review B</i> , 2001 , 65,	3.3	17
29	Accurate calculation of polarization-related quantities in semiconductors. <i>Physical Review B</i> , 2001 , 63,	3.3	146
28	Proof of the thermodynamical stability of the EScenter in SiO ₂ . <i>Physical Review Letters</i> , 2001 , 86, 3064-77.4		45
27	Polarization fields in nitride nanostructures: 10 points to think about. <i>Applied Surface Science</i> , 2000 , 166, 23-29	6.7	63

26	Doping screening of polarization fields in nitride heterostructures. <i>Applied Physics Letters</i> , 2000 , 76, 3950-3952	3.3	50
25	Incorporation, diffusion, and electrical activity of Li in GaN. <i>Physical Review B</i> , 2000 , 61, 12598-12601	3.3	7
24	Band offsets and stability of BeTe/ZnSe (100) heterojunctions. <i>Physical Review B</i> , 2000 , 62, R16302-R16305	3.3	14
23	Theoretical evidence for the semi-insulating character of AlN. <i>Journal of Applied Physics</i> , 1999 , 85, 2001-2003	3.3	47
22	Free-carrier screening of polarization fields in wurtzite GaN/InGaN laser structures. <i>Applied Physics Letters</i> , 1999 , 74, 2002-2004	3.4	233
21	Spontaneous versus Piezoelectric Polarization in III-V Nitrides: Conceptual Aspects and Practical Consequences. <i>Physica Status Solidi (B): Basic Research</i> , 1999 , 216, 391-398	1.3	241
20	Effects of macroscopic polarization in III-V nitride multiple quantum wells. <i>Physical Review B</i> , 1999 , 60, 8849-8858	3.3	432
19	Macroscopic polarization and band offsets at nitride heterojunctions. <i>Physical Review B</i> , 1998 , 57, R9427-R9430	3.3	340
18	Electronic dielectric constants of insulators calculated by the polarization method. <i>Physical Review B</i> , 1998 , 58, 15292-15295	3.3	71
17	Valence-band offsets at the Al _x Ga _{0.5-x} In _{0.5} P-ZnSe(001) lattice-matched interface. <i>Physical Review B</i> , 1997 , 55, 1718-1723	3.3	2
16	Band offsets at the GaInP/GaAs heterojunction. <i>Journal of Applied Physics</i> , 1997 , 82, 3374-3380	2.5	20
15	Theoretical evidence for efficient p-type doping of GaN using beryllium. <i>Applied Physics Letters</i> , 1997 , 70, 2990-2992	3.4	95
14	Polarization-Based Calculation of the Dielectric Tensor of Polar Crystals. <i>Physical Review Letters</i> , 1997 , 79, 3958-3961	7.4	210
13	Spontaneous polarization and piezoelectric constants of III-V nitrides. <i>Physical Review B</i> , 1997 , 56, R10024-R10027	3.3	279
12	The luminescence transition in porous silicon: the nature of the electronic states. <i>Thin Solid Films</i> , 1996 , 276, 261-264	2.2	2
11	Electron states and luminescence transition in porous silicon. <i>Physical Review B</i> , 1996 , 53, 4557-4564	3.3	39
10	Si/CaF ₂ Superlattices. A Direct Gap Structure Due to Interface State Coupling. <i>Physica Status Solidi (B): Basic Research</i> , 1995 , 190, 117-122	1.3	8
9	Light Emission at Room Temperature from Si/CaF ₂ Multilayers. <i>Europhysics Letters</i> , 1995 , 31, 25-30	1.6	38

8	Electronic structure of thin Si layers in CaF ₂ : Hybridization versus confinement. <i>Solid-State Electronics</i> , 1994 , 37, 1145-1147	1.7	
7	Gap opening in ultrathin Si layers: Role of confined and interface states. <i>Physical Review Letters</i> , 1994 , 72, 1044-1047	7.4	30
6	First-principles investigation of the electronic structure of Si-based layered structures. <i>Surface Science</i> , 1994 , 307-309, 984-988	1.8	2
5	Electronic Properties of Low Dimensional Silicon Structures 1993 , 219-228		1
4	Hydrogen covered Si(111) surfaces. <i>Surface Science</i> , 1992 , 269-270, 879-885	1.8	35
3	Fermi-level pinning and interface states at Pb/Si(111) interface. <i>Solid State Communications</i> , 1992 , 82, 863-866	1.6	2
2	Hydrogen on semiconductor surfaces. <i>Physica B: Condensed Matter</i> , 1991 , 170, 429-435	2.8	15
1	Chemisorption of H on GaAs(110): a First-Principles Calculation. <i>Europhysics Letters</i> , 1990 , 13, 653-658	1.6	25