

Fabio Bernardini

List of Publications by Citations

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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 | Spontaneous polarization and piezoelectric constants of III-V nitrides. <i>Physical Review B</i> , 1997 , 56, R100243-R100279 | 3.3 | 379 |
| 96 | Pyroelectric properties of Al(In)GaN/GaN hetero- and quantum well structures. <i>Journal of Physics Condensed Matter</i> , 2002 , 14, 3399-3434 | 1.8 | 689 |
| 95 | Evidence for nonlinear macroscopic polarization in III ν nitride alloy heterostructures. <i>Applied Physics Letters</i> , 2002 , 80, 1204-1206 | 3.4 | 607 |
| 94 | Effects of macroscopic polarization in III-V nitride multiple quantum wells. <i>Physical Review B</i> , 1999 , 60, 8849-8858 | 3.3 | 432 |
| 93 | 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 |
| 92 | Macroscopic polarization and band offsets at nitride heterojunctions. <i>Physical Review B</i> , 1998 , 57, R94273-R94304 | 3.3 | 340 |
| 91 | Spontaneous versus Piezoelectric Polarization in III ν Nitrides: Conceptual Aspects and Practical Consequences. <i>Physica Status Solidi (B): Basic Research</i> , 1999 , 216, 391-398 | 1.3 | 241 |
| 90 | Nonlinear macroscopic polarization in III-V nitride alloys. <i>Physical Review B</i> , 2001 , 64, | 3.3 | 238 |
| 89 | Free-carrier screening of polarization fields in wurtzite GaN/InGaN laser structures. <i>Applied Physics Letters</i> , 1999 , 74, 2002-2004 | 3.4 | 233 |
| 88 | Polarization-Based Calculation of the Dielectric Tensor of Polar Crystals. <i>Physical Review Letters</i> , 1997 , 79, 3958-3961 | 7.4 | 210 |
| 87 | Accurate calculation of polarization-related quantities in semiconductors. <i>Physical Review B</i> , 2001 , 63, | 3.3 | 146 |
| 86 | Electronic and structural properties of superconducting MgB ₂ , CaSi ₂ , and related compounds. <i>Physical Review B</i> , 2001 , 64, | 3.3 | 126 |
| 85 | First-principles calculation of the piezoelectric tensor $d^?$ of III ν nitrides. <i>Applied Physics Letters</i> , 2002 , 80, 4145-4147 | 3.4 | 107 |
| 84 | Theoretical evidence for efficient p-type doping of GaN using beryllium. <i>Applied Physics Letters</i> , 1997 , 70, 2990-2992 | 3.4 | 95 |
| 83 | Electronic dielectric constants of insulators calculated by the polarization method. <i>Physical Review B</i> , 1998 , 58, 15292-15295 | 3.3 | 71 |
| 82 | Polarization fields in nitride nanostructures: 10 points to think about. <i>Applied Surface Science</i> , 2000 , 166, 23-29 | 6.7 | 63 |
| 81 | Isoelectronic Ru substitution at the iron site in SmFe _{1-x} Ru _x AsO _{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 |

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| 80 | 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 |
| 79 | Energetic stability and magnetic properties of Mn dimers in silicon. <i>Applied Physics Letters</i> , 2004 , 84, 2289-2291 | 3.4 | 51 |
| 78 | Doping screening of polarization fields in nitride heterostructures. <i>Applied Physics Letters</i> , 2000 , 76, 3950-3952 | 3.4 | 50 |
| 77 | Playing quantum hide-and-seek with the muon: localizing muon stopping sites. <i>Physica Scripta</i> , 2013 , 88, 068510 | 2.6 | 48 |
| 76 | Theoretical evidence for the semi-insulating character of AlN. <i>Journal of Applied Physics</i> , 1999 , 85, 2001-2003 | 3.4 | 47 |
| 75 | Proof of the thermodynamical stability of the EScenter in SiO ₂ . <i>Physical Review Letters</i> , 2001 , 86, 3064-77 | 7.4 | 45 |
| 74 | Self-interstitial trapping by carbon complexes in crystalline silicon. <i>Physical Review B</i> , 2002 , 66, | 3.3 | 42 |
| 73 | Nonlinear Behavior of Spontaneous and Piezoelectric Polarization in III \bar{V} Nitride Alloys. <i>Physica Status Solidi A</i> , 2002 , 190, 65-73 | | 39 |
| 72 | Electron states and luminescence transition in porous silicon. <i>Physical Review B</i> , 1996 , 53, 4557-4564 | 3.3 | 39 |
| 71 | Ab initio strategy for muon site assignment in wide band gap fluorides. <i>Physical Review B</i> , 2013 , 87, | 3.3 | 38 |
| 70 | Light Emission at Room Temperature from Si/CaF ₂ Multilayers. <i>Europhysics Letters</i> , 1995 , 31, 25-30 | 1.6 | 38 |
| 69 | Magnetotransport in La(Fe,Ru)AsO as a probe of band structure and mobility. <i>Physical Review B</i> , 2011 , 84, | 3.3 | 37 |
| 68 | The phase diagrams of iron-based superconductors: Theory and experiments. <i>Comptes Rendus Physique</i> , 2016 , 17, 5-35 | 1.4 | 35 |
| 67 | Hydrogen covered Si(111) surfaces. <i>Surface Science</i> , 1992 , 269-270, 879-885 | 1.8 | 35 |
| 66 | 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 |
| 65 | Understanding the BR spectra of MnSi without magnetic polarons. <i>Physical Review B</i> , 2014 , 89, | 3.3 | 30 |
| 64 | Gap opening in ultrathin Si layers: Role of confined and interface states. <i>Physical Review Letters</i> , 1994 , 72, 1044-1047 | 7.4 | 30 |
| 63 | 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 |

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| 62 | 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 |
| 61 | 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 |
| 60 | 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 |
| 59 | Chemisorption of H on GaAs(110): a First-Principles Calculation. <i>Europhysics Letters</i> , 1990 , 13, 653-658 | 1.6 | 25 |
| 58 | Ab initio many-body GW correlations in the electronic structure of LaNiO ₂ . <i>Physical Review B</i> , 2020 , 101, | 3.3 | 22 |
| 57 | 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 |
| 56 | Band offsets at the GaInP/GaAs heterojunction. <i>Journal of Applied Physics</i> , 1997 , 82, 3374-3380 | 2.5 | 20 |
| 55 | Anomalous effect of Li-Al codoping in MgB ₂ : A simple explanation. <i>Physical Review B</i> , 2006 , 74, | 3.3 | 20 |
| 54 | Energetics of native point defects in cubic silicon carbide. <i>European Physical Journal B</i> , 2004 , 38, 437-444 | 1.2 | 20 |
| 53 | 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 |
| 52 | 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 |
| 51 | Stability and electronic properties of LaNiO ₂ /SrTiO ₃ heterostructures. <i>JPhys Materials</i> , 2020 , 3, 03LT01 | 4.2 | 19 |
| 50 | Unconventional Disorder Effects in Correlated Superconductors. <i>Physical Review Letters</i> , 2016 , 117, 257002 | 4.2 | 19 |
| 49 | Theoretical investigation of optical conductivity in Ba(Fe _{1-x} Cox) ₂ As ₂ . <i>Physical Review B</i> , 2011 , 83, | 3.3 | 18 |
| 48 | 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 |
| 47 | MgB ₂ and BeB ₂ : A comparative study of their electronic and superconducting properties. <i>Physical Review B</i> , 2001 , 65, | 3.3 | 17 |
| 46 | Theoretical investigation of FeTe magnetic ordering under hydrostatic pressure. <i>Physical Review B</i> , 2013 , 87, | 3.3 | 16 |
| 45 | Magnetic penetration depth and T _c in superconducting nickelates. <i>Physical Review Research</i> , 2020 , 2, | 3.9 | 16 |

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| 44 | Iron-based superconductivity extended to the novel silicide LaFeSiH. <i>Physical Review B</i> , 2018 , 97, | 3.3 | 15 |
| 43 | 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 |
| 42 | 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 |
| 41 | Stability of Ge-related point defects and complexes in Ge-doped SiO ₂ . <i>Physical Review B</i> , 2002 , 66, | 3.3 | 15 |
| 40 | Hydrogen on semiconductor surfaces. <i>Physica B: Condensed Matter</i> , 1991 , 170, 429-435 | 2.8 | 15 |
| 39 | Origin of the critical temperature discontinuity in superconducting sulfur under high pressure. <i>Physical Review B</i> , 2017 , 95, | 3.3 | 14 |
| 38 | Band offsets and stability of BeTe/ZnSe (100) heterojunctions. <i>Physical Review B</i> , 2000 , 62, R16302-R16305 | 3.5 | 14 |
| 37 | Nickelate Superconductors: An Ongoing Dialog between Theory and Experiments. <i>Journal of Experimental and Theoretical Physics</i> , 2021 , 132, 618-627 | 1 | 12 |
| 36 | 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 |
| 35 | First-principle investigation of native and impurity defects in MgB ₂ . <i>Europhysics Letters</i> , 2006 , 76, 491-497 | 4.6 | 10 |
| 34 | Electronic and dynamical properties of the MgB ₂ surface: Implications for the superconducting properties. <i>Physical Review B</i> , 2002 , 66, | 3.3 | 10 |
| 33 | Infinite-layer fluoro-nickelates as d ₉ model materials. <i>JPhys Materials</i> , 2020 , 3, 035003 | 4.2 | 9 |
| 32 | 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 |
| 31 | Particle Swarm Optimization in Multi-Antenna SAR-based Localization for UHF-RFID Tags 2019 , | | 9 |
| 30 | 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 |
| 29 | 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 |
| 28 | 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 |
| 27 | Incorporation, diffusion, and electrical activity of Li in GaN. <i>Physical Review B</i> , 2000 , 61, 12598-12601 | 3.3 | 7 |

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| 26 | Static and dynamical susceptibility of $\text{LaO}_{1-x}\text{F}_x\text{FeAs}$. <i>Physical Review B</i> , 2010 , 81, | 3.3 | 6 |
| 25 | Towards a Multi-antenna approach for UHF-RFID tag 3D localization with a Synthetic Aperture Radar Method 2019 , | | 5 |
| 24 | Quantum oscillations in the SmFeAsO parent compound and superconducting $\text{SmFeAs}(\text{O},\text{F})$. <i>Physical Review B</i> , 2017 , 96, | 3.3 | 5 |
| 23 | 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 |
| 22 | 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 |
| 21 | Intrinsic thermoelectric figure of merit of bulk compositional SiGe alloys: A first-principles study. <i>Physical Review Materials</i> , 2021 , 5, | 3.2 | 4 |
| 20 | CORRELATION BETWEEN LOCAL OXYGEN DISORDER AND ELECTRONIC PROPERTIES IN SUPERCONDUCTING $\text{RESR}_2\text{CU}_3\text{O}_{6+x}$ ($\text{RE} = \text{Y}, \text{YB}$). <i>International Journal of Modern Physics B</i> , 2003 , 17, 873-878 | 1.1 | 3 |
| 19 | Bi incorporation in GaN and $\text{Al}_x\text{Ga}_{1-x}\text{N}$ alloys. <i>Physical Review B</i> , 2003 , 68, | 3.3 | 3 |
| 18 | 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 |
| 17 | Valence-band offsets at the $\text{Al}_x\text{Ga}_{0.5-x}\text{In}_{0.5}\text{P}-\text{ZnSe}(001)$ lattice-matched interface. <i>Physical Review B</i> , 1997 , 55, 1718-1723 | 3.3 | 2 |
| 16 | The luminescence transition in porous silicon: the nature of the electronic states. <i>Thin Solid Films</i> , 1996 , 276, 261-264 | 2.2 | 2 |
| 15 | First-principles investigation of the electronic structure of Si-based layered structures. <i>Surface Science</i> , 1994 , 307-309, 984-988 | 1.8 | 2 |
| 14 | Fermi-level pinning and interface states at $\text{Pb}/\text{Si}(111)$ interface. <i>Solid State Communications</i> , 1992 , 82, 863-866 | 1.6 | 2 |
| 13 | Single-layer T-type nickelates: Ni^{1+} is Ni^{1+} . <i>Physical Review Materials</i> , 2021 , 5, | 3.2 | 2 |
| 12 | Geometric effects in the infinite-layer nickelates. <i>Physical Review Materials</i> , 2022 , 6, | 3.2 | 2 |
| 11 | Universal conductivity and the electrodynamics of graphite at high pressures. <i>Physical Review B</i> , 2012 , 86, | 3.3 | 1 |
| 10 | 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 |
| 9 | The MONITOR Project: RFID-based Robots enabling real-time inventory and localization in warehouses and retail areas 2021 , | | 1 |

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| 8 | Magnetic competition in Fe-based germanide and silicide superconductors. <i>Europhysics Letters</i> , 2019 , 128, 47004 | 1.6 | 1 |
| 7 | Electronic Properties of Low Dimensional Silicon Structures 1993 , 219-228 | | 1 |
| 6 | Disorder-induced localisation and suppression of superconductivity in YSrCuO. <i>Journal of Physics Condensed Matter</i> , 2019 , 31, 284001 | 1.8 | 1 |
| 5 | Topotactic fluorination of intermetallics as an efficient route towards quantum materials.. <i>Nature Communications</i> , 2022 , 13, 1462 | 17.4 | 0 |
| 4 | 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 |
| 3 | Electronic and structural properties of LiAl co-doped MgB ₂ . <i>Physica C: Superconductivity and Its Applications</i> , 2007 , 460-462, 566-567 | 1.3 | |
| 2 | Electronic structure of thin Si layers in CaF ₂ : Hybridization versus confinement. <i>Solid-State Electronics</i> , 1994 , 37, 1145-1147 | 1.7 | |
| 1 | Special issue on novel superconducting and magnetic materials. <i>Journal of Physics Condensed Matter</i> , 2020 , 32, 040401 | 1.8 | |