

Andrea Bianchi

List of Publications by Year in descending order

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88
papers

3,560
citations

136740

32
h-index

133063

59
g-index

89
all docs

89
docs citations

89
times ranked

2822
citing authors

#	ARTICLE	IF	CITATIONS
1	Possible quantum nematic phase in a colossal magnetoresistance material. Physical Review B, 2022, 105, Case for a U	1.1	3
2	Quantum Spin Liquid Ground State in the Dipole-Octupole Pyrochlore LaFe_2P_2 a detailed density functional study. Journal of Physics Condensed Matter, 2020, 32, 025503.	0.7	2
3	Quantum Spin Ice Dynamics in the Dipole-Octupole Pyrochlore Magnet Ce_2O_7	2.9	17
4	Unconventional field induced phases in a quantum magnet formed by free radical tetramers. Physical Review B, 2018, 97, .	1.1	5
5	Coexistence of magnetic fluctuations and long-range order in the one-dimensional zigzag chain materials BaDy_2O_7	1.1	5
6	Evidence for spin liquid ground state in SrDy_2O_4 frustrated magnet probed by ^{14}N SR. Journal of Physics: Conference Series, 2017, 828, 012014.	0.3	10
7	Field dependence of the magnetic correlations of the frustrated magnet SrDy_2O_4	1.1	12
8	Absence of long-range order in the frustrated magnet SrDy_2O_4 due to trapped defects from a dimensionality crossover. Physical Review B, 2017, 95, .	1.1	15
9	Dimensionality and irreversibility of field-induced transitions in SrDy_2O_4	1.1	16
10	Fermi surface of the superconductor BaR_2P_2 . Physical Review B, 2015, 92, .	1.1	5
11	Magnetic structure of the antiferromagnetic half-Heusler compound NdBiPt . Physical Review B, 2015, 92, .	1.1	26
12	Magnetic structure of GdBiPt : A candidate antiferromagnetic topological insulator. Physical Review B, 2014, 90, .	1.1	57
13	Switching of magnetic domains reveals spatially inhomogeneous superconductivity. Nature Physics, 2014, 10, 126-129.	6.5	46
14	Multidentate Block-Copolymer-Stabilized Ultrasmall Superparamagnetic Iron Oxide Nanoparticles with Enhanced Colloidal Stability for Magnetic Resonance Imaging. Biomacromolecules, 2014, 15, 2146-2156.	2.6	60
15	Fermi-surface topology of the iron pnictide LaFeP_2	1.1	8
16	Fermi-surface topology of Pn_2P_2	1.1	8
17	Magnetic Interference of Cardiac Pacemakers from a Surgical Magnetic Drape. Anesthesia and Analgesia, 2013, 116, 555-559.	1.1	7

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19	Fermi-surface evolution in Yb-substituted CeCoIn ₅ . Physical Review B, 2012, 85, .	1.1	26
20	Direct Observation of the Quantum Critical Point in Heavy Fermion CeRhSi_3 . Physical Review Letters, 2012, 108, 177204.	2.9	22
21	Vortex Lattice Studies in CeCoIn ₅ with HfS_2 . Physical Review Letters, 2012, 108, 087002.	2.9	13
22	SC-to-AFM transition in CeCo(In _{1-x} Cdx) ₅ : de Haas-van Alphen Measurements. Journal of Physics: Conference Series, 2011, 273, 012113.	0.3	3
23	Superconducting condensation energy in a diluted Kondo lattice. Journal of Physics: Conference Series, 2011, 273, 012027.	0.3	2
24	Magnetic Field Induced Orbital Polarization in Cubic YbInNi_4 : Determining the Quartet Ground State Using X-Ray Linear Dichroism. Physical Review Letters, 2011, 107, 236402.	2.9	11
25	Orbital occupancy in Yb-substituted CeCoIn ₅ determined with magnetic form factor and inelastic neutron scattering. Physical Review B, 2011, 83, .	1.1	29
26	Crystal fields in YbInNi_4 determined with magnetic form factor and inelastic neutron scattering. Physical Review B, 2011, 83, .	1.1	3
27	Electronic inhomogeneity in a Kondo lattice. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 6857-6861.	3.3	39
28	Magnetism and superconductivity driven by identical f states in a heavy-fermion metal. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 9537-9540. Evidence for a Magnetically Driven Superconducting Phase of CeCoIn_5 . Physical Review Letters, 2010, 104, 127001.	3.3	32
29	Phase of CeCoIn_5 . Physical Review Letters, 2010, 104, 127001.	2.9	90
30	Anomalous effect of doping on the superconducting state of CeCoIn ₅ in high magnetic fields. Physical Review B, 2010, 82, .	1.1	23
31	Fermi surface evolution through a heavy-fermion superconductor-to-antiferromagnet transition: de Haas-van Alphen effect in Cd-substituted CeCoIn ₅ . Physical Review B, 2010, 82, .	1.1	14
32	Wilson ratio in Yb-substituted CeCoIn ₅ . Europhysics Letters, 2010, 92, 47004.	0.7	18
33	Observations of Pauli paramagnetic effects on the flux line lattice in CeCoIn ₅ . New Journal of Physics, 2010, 12, 023026.	1.2	28
34	Superconductivity without Fe or Ni in the phosphides Ba _{1-x} Rh ₂ P ₂ and Ba _{1-x} Rh ₂ P ₂ . Physical Review B, 2009, 79, . Local structure and site occupancy of Cd and Hg substitutions in CeCoIn_5 . Physical Review B, 2009, 79, 114407.	1.1	37
35	Local structure and site occupancy of Cd and Hg substitutions in CeCoIn_5 . Physical Review B, 2009, 79, 114407.	1.1	27
36	Possible Fulde-Ferrel-Larkin-Ovchinnikov Inhomogeneous Superconducting State in CeCoIn ₅ : Cd- and Hg-doping Studies. Journal of Superconductivity and Novel Magnetism, 2009, 22, 291-293.	0.8	3

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37	Magnetism and superconductivity in heavy fermion superconductor. Physica B: Condensed Matter, 2009, 404, 754-756.	1.3	0
38	Point-contact spectroscopy of competing/coexisting orders in Cd-doped CeCoIn ₅ . Journal of Physics: Conference Series, 2009, 150, 052208.	0.3	3
39	Hall effect and magnetoresistance in the heavy fermion superconductor CeCo(In ^{1-x} Cdx) ₅ . Journal of Physics: Conference Series, 2009, 150, 042133.	0.3	2
40	Possible magnetic-field-induced Lifshitz transition in CeBiPt. Physica B: Condensed Matter, 2008, 403, 1219-1221.	1.3	8
41	Coupled Superconducting and Magnetic Order in CeCoIn ₅ . Science, 2008, 321, 1652-1654.	6.0	299
42	Superconducting Vortices in CeCoIn ₅ : Toward the Pauli-Limiting Field. Science, 2008, 319, 177-180.	6.0	104
43	Anisotropic Multiband Many-Body Interactions in $\text{LuNi}_2\text{B}_2\text{C}$. Physical Review Letters, 2008, 100, 257001.		33
44	Anisotropic Effect of Cd and Hg Doping on the Pauli Limited Superconductor CeCoIn ₅ . Physical Review Letters, 2008, 101, 037001.	2.9	34
45	Magneto-optical behavior of EuIn ₂ P ₂ . Physical Review B, 2008, 77, .	1.1	8
46	Magnetic order in the S=1 ² two-dimensional molecular antiferromagnet copper pyrazine perchlorate Cu(Pz) ₂ (ClO ₄) ₂ . Physical Review B, 2007, 75, .	1.1	59
47	Superconducting properties of. Journal of Magnetism and Magnetic Materials, 2007, 310, 520-522.	1.0	4
48	Fermi surfaces of the half-Heusler compounds. Journal of Magnetism and Magnetic Materials, 2007, 310, e261-e263.	1.0	4
49	Adhesion of PBO fiber in epoxy composites. Journal of Materials Science, 2007, 42, 8047-8052.	1.7	62
50	Determination of the superconducting gap of LuNi ₂ B ₂ C. Physica C: Superconductivity and Its Applications, 2007, 460-462, 630-631.	0.6	11
51	Dresden pulsed magnetic field facility. Journal of Magnetism and Magnetic Materials, 2007, 310, 2728-2730.	1.0	35
52	Ferromagnetic Gd-implanted ZnO single crystals. Journal of Applied Physics, 2006, 99, 063906.	1.1	107
53	Coil Design for Non-Destructive Pulsed-Field Magnets Targeting 100 T. IEEE Transactions on Applied Superconductivity, 2006, 16, 1660-1663.	1.1	36
54	The New High Magnetic Field Laboratory at Dresden: a Pulsed-Field Laboratory at an IR Free-Electron-Laser. AIP Conference Proceedings, 2006, , .	0.3	1

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55	The magnetic properties of the multi-functional intermetallic compound $\text{Pr}_{1-x}\text{yLa}_x\text{Pb}_y\text{Te}$ in high magnetic fields. <i>Journal of Physics: Conference Series</i> , 2006, 51, 67-70.	0.3	0
56	Electronic band structure of the borocarbide superconductor $\text{LuNi}_2\text{B}_2\text{C}$. <i>Journal of Physics: Conference Series</i> , 2006, 51, 263-266.	0.3	3
57	Status quo of the Dresden High Magnetic Field Laboratory. <i>Journal of Physics: Conference Series</i> , 2006, 51, 619-622.	0.3	5
58	Magnetization, vortex state and specific heat in the superconducting state of $\text{RuSr}_2\text{GdCu}_2\text{O}_8$. <i>European Physical Journal B</i> , 2006, 52, 383-388.	0.6	9
59	Magnetic-field- and temperature-dependent Fermi surface of CeBiPt . <i>New Journal of Physics</i> , 2006, 8, 174-174.	1.2	27
60	Magneto-Optical Evidence of Double Exchange in a Percolating Lattice. <i>Physical Review Letters</i> , 2006, 96, 016403.	2.9	16
61	Recent Developments at the Dresden High Magnetic Field Laboratory. , 2006, , .		2
62	Percolation limited magnetic order in $\text{Eu}_{1-x}\text{Ca}_x\text{B}_6$. <i>European Physical Journal B</i> , 2005, 46, 231-235.	0.6	4
63	Optical Evidence for a Spin-Filter Effect in the Charge Transport of $\text{Eu}_{0.6}\text{Ca}_{0.4}\text{B}_6$. <i>Physical Review Letters</i> , 2004, 92, 067401.	2.9	12
64	Percolation and the Colossal Magnetoresistance of Eu-Based Hexaboride. <i>Physical Review Letters</i> , 2004, 93, 147203.	2.9	35
65	Magneto-optical Kerr effect in $\text{Eu}_{1-x}\text{Ca}_x\text{B}_6$. <i>Physical Review B</i> , 2004, 69, .	1.1	4
66	Magnetic enhancement of superconductivity. <i>Nature</i> , 2004, 427, 802-802.	13.7	2
67	Evolution of the Eu^{2+} local environment in $\text{Ca}_{1-x}\text{Eu}_x\text{B}_6$. <i>Journal of Magnetism and Magnetic Materials</i> , 2004, 272-276, E1659-E1661.	1.0	2
68	FFLO superconducting state in CeCoIn_5 . <i>Journal of Magnetism and Magnetic Materials</i> , 2004, 272-276, 140-141.	1.0	1
69	Possible Fulde-Ferrell-Larkin-Ovchinnikov Superconducting State in CeCoIn_5 . <i>Physical Review Letters</i> , 2003, 91, 187004.	2.9	543
70	Avoided Antiferromagnetic Order and Quantum Critical Point in CeCoIn_5 . <i>Physical Review Letters</i> , 2003, 91, 257001.	2.9	275
71	First-Order Transition from a Kondo Insulator to a Ferromagnetic Metal in Single Crystalline $\text{FeSi}_{1-x}\text{Ge}_x$. <i>Physical Review Letters</i> , 2003, 91, 046401.	2.9	56
72	Low-temperature thermal conductivity of CaB_6 and EuB_6 . <i>Journal of Physics Condensed Matter</i> , 2003, 15, 6739-6748.	0.7	4

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73	Bulk Band Gaps in Divalent Hexaborides. <i>Physical Review Letters</i> , 2002, 89, 157601.	2.9	90
74	Magnetization-dependent electronic transport in Eu-based hexaborides. <i>Physical Review B</i> , 2002, 66, .	1.1	14
75	BULK BAND GAPS IN DIVALENT HEXABORIDES: A SOFT X-RAY EMISSION STUDY. <i>Surface Review and Letters</i> , 2002, 09, 1309-1313.	0.5	3
76	Low-temperature thermoelectric power of CaB ₆ . <i>Journal of Physics Condensed Matter</i> , 2002, 14, 1035-1043.	0.7	61
77	First-Order Superconducting Phase Transition in CeCoIn ₅ . <i>Physical Review Letters</i> , 2002, 89, 137002.	2.9	231
78	Thermal conductivity of EuB ₆ . <i>Physical Review B</i> , 2000, 62, 3246-3250.	1.1	6
79	Electronic transport and thermal and optical properties of Ca _{1-x} LaxB ₆ . <i>Physical Review B</i> , 2000, 62, 10076-10082.	1.1	69
80	Low-temperature thermal and optical properties of single-grained decagonal Al-Ni-Co quasicrystals. <i>Physical Review B</i> , 1998, 58, 3046-3056.	1.1	23
81	Elastic Moduli of a Single Quasicrystal of Decagonal Al-Ni-Co: Evidence for Transverse Elastic Isotropy. <i>Physical Review Letters</i> , 1998, 80, 321-324.	2.9	111
82	Low-temperature transport, optical, magnetic and thermodynamic properties of Fe _{1-x} CoxSi. <i>Physical Review B</i> , 1997, 56, 1366-1375.	1.1	70
83	Electrical, magneto-, and optical conductivity of quasicrystals in the Al-Re-Pd system. <i>Physical Review B</i> , 1997, 55, 5730-5735.	1.1	51
84	Low-Temperature Thermodynamic and Thermal-Transport Properties of Decagonal Al ₆₅ Cu ₂₀ Co ₁₅ . <i>Physical Review Letters</i> , 1996, 77, 1071-1074.	2.9	37
85	Low-temperature electrical transport in icosahedral Al ₁₃ Re ₂ Pd. <i>European Physical Journal D</i> , 1996, 46, 2553-2554.	0.4	3
86	Structural scattering of phonons in quasicrystals. <i>Physical Review B</i> , 1996, 53, 14145-14151.	1.1	54
87	Low-temperature properties of CePd ₂ In. <i>Zeitschrift für Physik B-Condensed Matter</i> , 1995, 99, 69-76.	1.1	17
88	Low-temperature thermal conductivity of icosahedral Al ₇₀ Mn ₉ Pd ₂₁ . <i>Physical Review B</i> , 1995, 51, 153-158.	1.1	85