Amitava Bhattacharyya

List of Publications by Year
in descending order

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Version: 2024-02-01

59 papers	1,113 citations	430442 18 h-index	414034 32 g-index
60 all docs	60 docs citations	60 times ranked	1232 citing authors

#	Article	IF	Citations
1	Inverse barocaloric effect in the giant magnetocaloric Laâ€“Feâ€“Siâ€“Co compound. Nature Communications, 2011, 2, 595.	5.8	175
2	Superconducting ground state of quasi-one-dimensional<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi mathvariant="normal">K</mml:mi><mml:mn>2</mml:mn></mml:msub><mml:msub><mml:mi mathvariant="normal">Cr</mml:mi><mml:mn>3</mml:mn></mml:msub><mml:msub><mml:mi mathvariant="normal">As</mml:mi><mml:mn>3</mml:mn></mml:msub></mml:math>investigated using<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mi>Î¼</mml:mi><mml:mtext>	1.1	84
3	Spin-glass-like state in GdCu: Role of phase separation and magnetic frustration. Physical Review B, 2011, 83, .	1.1	63
4	Broken time-reversal symmetry probed by muon spin relaxation in the caged type superconductor<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>Lu</mml:mi><mml:mn>5</mml:mn></mml:msub><mml:msub><mml:mi>Ir</mml:mi><mml:mn>4</mml:mn></mml:msub><mml:msub><mml:mi>Si</mml:mi><mml:mn>10</mml:mn></mml:msub></mml:mrow></mml:math>. Physical Review B, 2015, 91, .	1.1	55
5	Physical properties of noncentrosymmetric superconductor<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mrow><mml:mi mathvariant="normal">LaIrSi</mml:mi></mml:mrow><mml:mn>3</mml:mn></mml:msub></mml:math>: A<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mi>Î¼</mml:mi></mml:math>SR study. Physical Review B, 2014, 90, .	1.1	52
6	Unconventional superconductivity in Y5Rh6Sn18 probed by muon spin relaxation. Scientific Reports, 2015, 5, 12926.	1.6	44
7	Nodal Superconducting Gap Structure in the Quasi-One-Dimensional Cs₂Cr₃As₃ Investigated Using Î¼SR Measurements. Journal of the Physical Society of Japan, 2017, 86, 044710.	0.7	36
8	Muon-spin-relaxation and inelastic neutron scattering investigations of the caged-type Kondo semimetals: CeT₂Al₁₀ (T = Fe, Ru and Os). Physica Scripta, 2013, 88, 068505.	1.2	32
9	Anisotropic magnetic properties and giant magnetocaloric effect of single-crystal PrSi. Physical Review B, 2014, 89, .	1.1	31
10	Magnetotransport and magnetocaloric effect in Ho2In. European Physical Journal B, 2009, 70, 347-351.	0.6	30
11	Evidence of a Nodal Line in the Superconducting Gap Symmetry of Noncentrosymmetric <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mi>ThCoC</mml:mi></mml:mrow><mml:mrow><mml:mn>2</mml:mn></mml:mrow> Physical Review Letters, 2019, 122, 147001.	2.9	30
12	A brief review on Î¼SR studies of unconventional Fe- and Cr-based superconductors. Science China: Physics, Mechanics and Astronomy, 2018, 61, 1.	2.0	29
13	Unconventional superconductivity in the cage-type compound <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi mathvariant="bold">Sc</mml:mi><mml:mn mathvariant="bold">5</mml:mn></mml:msub><mml:msub><mml:mi mathvariant="bold">Rh</mml:mi><mml:mn mathvariant="bold">6</mml:mn></mml:msub><mml:msub><mml:mi mathvariant="bold">Sn</mml:mi><mml:mn mathvariant="bold">18</mml:mn></mml:msub></mml:mrow></mml:math>. Physical Review B, 2015, 92, .	1.1	29
14	Multigap superconductivity in ThAsFeN investigated using <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mrow><mml:mi mathvariant="bold">Î¼</mml:mi></mml:mrow><mml:mi mathvariant="bold">SR</mml:mi></mml:mrow></mml:math> measurements. Physical Review B, 2017, 96,	1.1	26
15	Investigation of weak itinerant ferromagnetism and critical behavior of Y<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mn>2</mml:mn></mml:msub></mml:math>Ni<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mn>7</mml:mn></mml:msub></mml:math>. Physical Review B, 2011, 84, .	1.1	22
16	Field induced sign reversal of magnetocaloric effect in Gd2In. Journal of Magnetism and Magnetic Materials, 2012, 324, 1239-1241.	1.0	22
17	Magnetic ordering with reduced cerium moments in hole-doped CeOs2Al10. Physical Review B, 2014, 89, .	1.1	20
18	Magnetic anomaly and magnetocaloric effect in. Journal of Magnetism and Magnetic Materials, 2009, 321, 1828-1831.	1.0	18

#	ARTICLE	IF	CITATIONS
19	xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>Î¼</mml:mi><mml:mi>SR</mml:mi></mml:mrow></mml neutron diffraction investigations on the reentrant ferromagnetic superconductor<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mi		

#	Article	IF	Citations
37	Superconducting gap structure in the electron doped BiS₂-based superconductor. Journal of Physics Condensed Matter, 2017, 29, 265602.	0.7	8
38	Anomalous magneto-transport behaviour near the first order phase transition in Gd₅Ge_{3.8}Ga_{0.2}alloy. Journal of Physics Condensed Matter, 2009, 21, 336007.	0.7	7
39	Incommensurate spin-density-wave antiferromagnetism inCeRu2Al2B. Physical Review B, 2016, 93, .	1.1	7
40	Ir 5d-band derived superconductivity in LaIr₃. Journal of Physics Condensed Matter, 2020, 32, 065602.	0.7	7
41	Investigations of the singlet ground state system: PrIrSi3. Journal of Physics Condensed Matter, 2014, 26, 306001.	0.7	6
42	Muon spin relaxation study on itinerant ferromagnet CeCrGe₃and the effect of Ti substitution on magnetism of CeCrGe₃. Journal of Physics Condensed Matter, 2015, 27, 016004.	0.7	6
43	Antiferromagnetic Correlations in Strongly Valence Fluctuating CeIrSn. Physical Review Letters, 2021, 126, 217202.	2.9	6
44	Electronâ€“phonon superconductivity in C-doped topological nodal-line semimetal Zr₅Pt₃: a muon spin rotation and relaxation (Î¼SR) study. Journal of Physics Condensed Matter, 2022, 34, 035602.	0.7	6
45	Magnetocaloric effect near the second order ferromagnetic transition in superstructure R15Si9C compounds (R=Gd, Tb and Dy). Journal of Alloys and Compounds, 2014, 588, 720-724.	2.8	5
46	Kondo lattice heavy fermion behavior in CeRh₂Ga₂. Journal of Physics Condensed Matter, 2017, 29, 135601.	0.7	5
47	Two-band superconductivity with unconventional pairing symmetry in HfV2Ga4. Physical Review Research, 2020, 2, .	1.3	5
48	Two dimensional magnetic correlation in the unconventional corrugated layered oxides (Ba,Sr)4Mn3O10. Journal of Physics Condensed Matter, 2015, 27, 056001.	0.7	4
49	Crystal structure and physical properties of CePt2.4Al0.6. Journal of Alloys and Compounds, 2015, 622, 483-488.	2.8	4
50	Dynamic spin fluctuations in the frustrated spin chain compound Li3Cu2SbO6. Physical Review B, 2021, 103, .	1.1	4
51	Observation of large magnetoresistance in Gd₂Al. Journal Physics D: Applied Physics, 2009, 42, 205008.	1.3	3
52	Metamagnetism, sign reversal and low temperature magnetocaloric effect in single-crystalline EuV2Al20. Journal of Magnetism and Magnetic Materials, 2018, 452, 205-209.	1.0	3
53	Magnetic structure and field-dependent magnetic phase diagram of Ni₂In-type PrCuSi. Journal of Physics Condensed Matter, 2018, 30, 435803.	0.7	3
54	Evidence of nodal superconductivity in LaFeSiH. Physical Review B, 2020, 101, .	1.1	3

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55	Nodeless time-reversal symmetry breaking in the centrosymmetric superconductor <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>Sc</mml:mi><mml:mn>x</mml:mn></mml:msub></mml:mrow></mml:math> probed by muon-spin spectroscopy. Physical Review Materials, 2022, 6, .	3.1	3
56	Superconductivity in the Layered Cage Compound Ba₃Rh₄Ge₁₆. Chinese Physics Letters, 2021, 38, 127402.	1.3	2
57	Crossover from Kondo semiconductor to metallic antiferromagnet with 5d -electron doping in CeFe2Al10. Physical Review B, 2021, 104, .	1.1	1
58	Phase Coexistence and Glassy State in Martensetic Compound GdCu. , 2011, , .		0
59	Thermal conductivity, thermoelectric power and MÃ¶ssbauer investigations on atiferromagnetic CeFe1.7Ir0.3Al10. Journal of Magnetism and Magnetic Materials, 2022, , 169370.	1.0	0