

Amitava Bhattacharyya

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/6241517/publications.pdf>

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	Electron-phonon superconductivity in C-doped topological nodal-line semimetal $ZrPt_3$: a muon spin rotation and relaxation ($1/4$ SR) study. Journal of Physics Condensed Matter, 2022, 34, 035602.	0.7	6
2	Thermal conductivity, thermoelectric power and Mössbauer investigations on antiferromagnetic $CeFe_{1.7}Ir_{0.3}Al_{10}$. Journal of Magnetism and Magnetic Materials, 2022, , 169370.	1.0	0
3	Nodeless time-reversal symmetry breaking in the centrosymmetric superconductor $Sc_{1-x}Nb_x$ probed by muon-spin spectroscopy. Physical Review Materials, 2022, 6, .	1.1	10
4	Pairing symmetry of an intermediate valence superconductor $CeIr_3$ investigated using $1/4$ SR measurements. Physical Review B, 2021, 103, .	1.1	12
5	Probing the superconducting gap structure in the noncentrosymmetric topological superconductor $ZrRuAs$. Physical Review B, 2021, 103, .	1.1	12
6	Antiferromagnetic Correlations in Strongly Valence Fluctuating $CeIrSn$. Physical Review Letters, 2021, 126, 217202.	2.9	6
7	Dynamic spin fluctuations in the frustrated spin chain compound $Li_3Cu_2SbO_6$. Physical Review B, 2021, 103, .	1.1	4
8	Crossover from Kondo semiconductor to metallic antiferromagnet with 5d -electron doping in $CeFe_2Al_{10}$. Physical Review B, 2021, 104, .	1.1	1
9	Superconductivity in the Layered Cage Compound $Ba_3Rh_4Ge_{16}$. Chinese Physics Letters, 2021, 38, 127402.	1.3	2
10	d -band derived superconductivity in $LaIr_3$. Journal of Physics Condensed Matter, 2020, 32, 065602.	0.7	7
11	Evidence of nodal superconductivity in $LaFeSiH$. Physical Review B, 2020, 101, .	1.1	3
12	Quantum fluctuations in the quasi-one-dimensional non-Fermi liquid system $CeCo_2$ investigated using $1/4$ SR. Physical Review B, 2020, 101, .	1.1	10
13	Investigation of superconducting gap structure in $HfIrSi$ using muon spin relaxation/rotation. Journal of Physics Condensed Matter, 2020, 32, 085601.	0.7	12
14	Two-band superconductivity with unconventional pairing symmetry in HfV_2Ga_4 . Physical Review Research, 2020, 2, .	1.3	5
15	Probing the superconducting ground state of $ZrIrSi$: A muon spin rotation and relaxation study. Physical Review B, 2019, 99, .	1.1	12
16	Evidence of a Nodal Line in the Superconducting Gap Symmetry of Noncentrosymmetric $ThCoC_2$. Physical Review Letters, 2019, 122, 147001.	2.9	30
17	Metamagnetism, sign reversal and low temperature magnetocaloric effect in single-crystalline EuV_2Al_{20} . Journal of Magnetism and Magnetic Materials, 2018, 452, 205-209.	1.0	3
18	Magnetic structure and field-dependent magnetic phase diagram of Ni_2 In-type $PrCuSi$. Journal of Physics Condensed Matter, 2018, 30, 435803.	0.7	3

#	ARTICLE	IF	CITATIONS
19	A brief review on μ SR studies of unconventional Fe- and Cr-based superconductors. Science China: Physics, Mechanics and Astronomy, 2018, 61, 1.	2.0	29
20	Multigap superconductivity in the charge density wave superconductor $\text{LaPt}_{1-x}\text{Mn}_x$. Physical Review B, 2018, 97, .		
21	Multigap superconductivity in the charge density wave superconductor $\text{Sc}_{1-x}\text{Rh}_x$. Physical Review B, 2018, 97, .	1.1	29
22	Kondo lattice heavy fermion behavior in CeRh_2Ga_2 . Journal of Physics Condensed Matter, 2017, 29, 135601.	0.7	5
23	Superconducting gap structure in the electron doped BiS_2 -based superconductor. Journal of Physics Condensed Matter, 2017, 29, 265602.	0.7	8
24	Nodal Superconducting Gap Structure in the Quasi-One-Dimensional $\text{Cs}_2\text{Cr}_3\text{As}_3$ Investigated Using μ SR Measurements. Journal of the Physical Society of Japan, 2017, 86, 044710.	0.7	36
25	Multigap superconductivity in ThAsFeN investigated using μ SR measurements. Physical Review B, 2017, 96, .	1.1	26
26	Exploring the complex magnetic phase diagram of Ce_2PdGe_3 : A neutron powder diffraction and μ SR study. Physical Review B, 2016, 94, .	1.1	8
27	Incommensurate spin-density-wave antiferromagnetism in $\text{CeRu}_2\text{Al}_2\text{B}$. Physical Review B, 2016, 93, .	1.1	7
28	Spin wave excitations in the pyrovanadate V_2O_7 . Physical Review B, 2016, 94, .	1.1	10
29	Contrasting effect of La substitution on the magnetic moment direction in the Kondo semiconductors $\text{Ce}_2\text{Al}_10(\text{T}=\text{Ru},\text{Os})$. Physical Review B, 2015, 92, .	1.1	9
30	Superconducting ground state of quasi-one-dimensional $\text{K}_2\text{Cr}_3\text{As}_3$ investigated using μ SR. Physical Review B, 2015, 92, .	1.1	84
31	Unconventional superconductivity in $\text{Y}_5\text{Rh}_6\text{Sn}_{18}$ probed by muon spin relaxation. Scientific Reports, 2015, 5, 12926.	1.6	44
32	Neutron scattering and μ SR studies on a Kondo lattice heavy fermion CeRuSn_3 . Journal of Physics: Conference Series, 2015, 592, 012008.	0.3	9
33	Muon spin relaxation study on itinerant ferromagnet CeCrGe_3 and the effect of Ti substitution on magnetism of CeCrGe_3 . Journal of Physics Condensed Matter, 2015, 27, 016004.	0.7	6
34	Broken time-reversal symmetry probed by muon spin relaxation in the caged type superconductor Lu_5Mn_5 . Physical Review B, 2015, 91, .	1.1	55
35	Two dimensional magnetic correlation in the unconventional corrugated layered oxides $(\text{Ba},\text{Sr})_4\text{Mn}_3\text{O}_{10}$. Journal of Physics Condensed Matter, 2015, 27, 056001.	0.7	4
36	neutron diffraction investigations on the reentrant ferromagnetic superconductor Lu_5Mn_5		

#	ARTICLE	IF	CITATIONS
37	Crystal structure and physical properties of CePt _{2.4} Al _{0.6} . Journal of Alloys and Compounds, 2015, 622, 483-488.	2.8	4
38	Magnetic ordering with reduced cerium moments in hole-doped CeOs ₂ Al ₁₀ . Physical Review B, 2014, 89, .	1.1	20
39	xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mi> $\hat{1}/4$ </mml:mi><mml:mi>SR</mml:mi></mml:math>and inelastic neutron scattering investigations of the noncentrosymmetric antiferromagnet<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mrow><mml:mi mathvariant="normal">CeNiC</mml:mi></mml:mrow><mml:mn>2</mml:mn></mml:msub></mml:math>.	1.1	14
40	Anomalous change of the magnetic moment direction by hole doping in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi mathvariant="normal">CeRu</mml:mi><mml:mn>2</mml:mn></mml:msub><mml:msub><mml:mi mathvariant="normal">Al</mml:mi><mml:mn>10</mml:mn></mml:msub></mml:math>.	1.1	14
41	Contrasting carrier doping effects in the Kondo insulatorCeOs ₂ Al ₁₀ : The influential role ofcâ~hybridization in spin-gap formation. Physical Review B, 2014, 90, .	1.1	17
42	Magnetocaloric effect near the second order ferromagnetic transition in superstructure R ₁₅ Si ₉ C compounds (R=Gd, Tb and Dy). Journal of Alloys and Compounds, 2014, 588, 720-724.	2.8	5
43	Investigations of the singlet ground state system: Pr ₁ Si ₃ . Journal of Physics Condensed Matter, 2014, 26, 306001.	0.7	6
44	Anisotropic magnetic properties and giant magnetocaloric effect of single-crystal PrSi. Physical Review B, 2014, 89, .	1.1	31
45	Physical properties of noncentrosymmetric superconductor<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mrow><mml:mi mathvariant="normal">La ₁ rSi</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> $\hat{1}/4$ </mml:mi></mml:math>SR study. Physical Review B, 2014, 90, .	1.1	52
46	Critical phenomena in Pr _{0.52} Sr _{0.48} MnO ₃ single crystal. Journal of Alloys and Compounds, 2013, 577, 165-169.	2.8	10
47	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
48	A theoretical and experimental study of magnetism in Gd ₂ In. Journal of Applied Physics, 2012, 111, .	1.1	13
49	Field induced sign reversal of magnetocaloric effect in Gd ₂ In. Journal of Magnetism and Magnetic Materials, 2012, 324, 1239-1241.	1.0	22
50	Inverse barocaloric effect in the giant magnetocaloric Laâ€Feâ€Siâ€Co compound. Nature Communications, 2011, 2, 595.	5.8	175
51	Successive magnetic transitions and low temperature magnetocaloric effect in RE ₂ Ni ₇ (RE=Dy, Ho). Journal of Magnetism and Magnetic Materials, 2011, 323, 1484-1489.	1.0	14
52	Phase Coexistence and Glassy State in Martensetic Compound GdCu. , 2011, , .		0
53	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>.	1.1	22
54	Spin-glass-like state in GdCu: Role of phase separation and magnetic frustration. Physical Review B, 2011, 83, .	1.1	63

#	ARTICLE	IF	CITATIONS
55	Unusual magnetocaloric effect in R_{2} Al (R = Dy, Ho, Er) compounds. Journal of Physics Condensed Matter, 2010, 22, 316003.	0.7	10
56	Observation of large magnetoresistance in Gd_{2} Al. Journal Physics D: Applied Physics, 2009, 42, 205008.	1.3	3
57	Anomalous magneto-transport behaviour near the first order phase transition in $Gd_{5}Ce_{3.8}Ga_{0.2}$ alloy. Journal of Physics Condensed Matter, 2009, 21, 336007.	0.7	7
58	Magnetic anomaly and magnetocaloric effect in. Journal of Magnetism and Magnetic Materials, 2009, 321, 1828-1831.	1.0	18
59	Magnetotransport and magnetocaloric effect in $Ho_{2}In$. European Physical Journal B, 2009, 70, 347-351.	0.6	30