

Devashibhai Adroja

List of Publications by Year in descending order

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129
papers

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citations

126907

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129
all docs

129
docs citations

129
times ranked

2811
citing authors

#	ARTICLE	IF	CITATIONS
1	Evidence of pseudogap formation in a new valence-fluctuating compound: CeRhSb. Physical Review B, 1991, 43, 6277-6279.	3.2	199
2	Long-range magnetic order in CeRu_2Si_2 via muon spin relaxation and neutron diffraction. Physical Review B, 2010, 82, .	3.2	141
3	Crystalline Electric-Field Randomness in the Triangular Lattice Spin-Liquid YbMgGaO . Physical Review Letters, 2017, 118, 107202.	7.8	139
4	Muon Spin Relaxation Evidence for the U(1) Quantum Spin-Liquid Ground State in the Triangular Antiferromagnet YbMgGaO . Physical Review Letters, 2016, 117, 097201.	7.8	138
5	Ferromagnetic cluster spin-glass behavior in PrRhSn . Physical Review B, 2012, 85, .	3.2	126
6	Spin gap in $\text{Tl}_2\text{Ru}_2\text{O}_7$ and the possible formation of Haldane chains in three-dimensional crystals. Nature Materials, 2006, 5, 471-476.	27.5	109
7	Gapless spin-liquid state in the structurally disorder-free triangular antiferromagnet NaYbO_2 . Physical Review B, 2019, 100, .	3.2	101
8	Experimental signatures of a three-dimensional quantum spin liquid in effective spin-1/2 $\text{Ce}_2\text{Zr}_2\text{O}_7$ pyrochlore. Nature Physics, 2019, 15, 1052-1057.	16.7	92
9	SR study on the noncentrosymmetric superconductor LaRhSi . Superconducting ground state of quasi-one-dimensional KCrAs . Physical Review B, 2015, 91, 014408.	3.2	90
10	Superconducting ground state of quasi-one-dimensional KCrAs and CrAs investigated using μSR . Physical Review B, 2015, 91, 014408.	3.2	84
11	Long-range ordering of reduced magnetic moments in the spin-gap compound CeOs_2 seen via muon spin relaxation and neutron scattering. Physical Review B, 2010, 82, .	3.2	80
12	Spin-glass order induced by dynamic frustration. Nature Physics, 2008, 4, 766-770.	16.7	73
13	Investigations of the superconducting states of noncentrosymmetric LaPdSi_3 and LaPtSi_3 . Physical Review B, 2014, 89, 014408.	3.2	60
14	Vibron Quasibound State in the Noncentrosymmetric Tetragonal Heavy-Fermion Compound CeCuAl_3 . Physical Review Letters, 2012, 108, 216402.	7.8	58
15	Crystalline Electric Field as a Probe for Long-range Antiferromagnetic Order and Superconducting State of CeFeAsO . Physical Review B, 2015, 91, 014408.	3.2	56
16	Broken time-reversal symmetry probed by muon spin relaxation in the caged type superconductor Lu_5P_3 . Physical Review B, 2015, 91, 014408.	3.2	55
17	Crystal field splitting of the candidate quantum spin ice $\text{Pr}_2\text{Zr}_2\text{Si}_7$. Physical Review B, 2015, 91, 014408.	3.2	53
18	Spectacular Doping Dependence of Interlayer Exchange and Other Results on Spin Waves in Bilayer Manganites. Physical Review Letters, 2001, 87, 217201.	7.8	52

#	ARTICLE	IF	CITATIONS
19	Physical properties of noncentrosymmetric superconductor LaIrSi_3 . <i>Physical Review B</i> , 2014, 89, .	3.2	52
20	Crystal-field parameters of the rare-earth pyrochlores $\text{R}_2\text{Ti}_2\text{O}_7$ (R=Tb, Dy, and Ho). <i>Physical Review B</i> , 2016, 94, .	3.2	50
21	Neutron scattering and muon spin relaxation measurements of the noncentrosymmetric antiferromagnet CeCoGe_3 . <i>Physical Review B</i> , 2013, 88, .	3.2	49
22	Multiband One-Dimensional Electronic Structure and Spectroscopic Signature of Tomonaga-Luttinger Liquid Behavior in K_2Si . <i>Physical Review B</i> , 2013, 88, .	7.8	48
23	Unconventional superconductivity in $\text{Y}_5\text{Rh}_6\text{Sn}_{18}$ probed by muon spin relaxation. <i>Scientific Reports</i> , 2015, 5, 12926.	3.2	46
24	Muon spin relaxation and neutron scattering investigations of the noncentrosymmetric heavy-fermion antiferromagnet CeRhGe . <i>Physical Review B</i> , 2013, 88, .	3.2	44
25	Electron doping evolution of the magnetic excitations in BaFe_2As_2 . <i>Physical Review B</i> , 2011, 84, .	3.2	43
26	Nodal multigap superconductivity in $\text{Ni}_2\text{V}_2\text{S}_7$. <i>Physical Review B</i> , 2018, 97, .	3.2	42
27	Change of magnetic ground state by light electron doping in $\text{CeOs}_2\text{Al}_{10}$. <i>Physical Review B</i> , 2013, 88, .	3.2	38
28	Nodal Superconducting Gap Structure in the Quasi-One-Dimensional $\text{Cs}_2\text{Cr}_3\text{As}_3$ Investigated Using ^{13}C NMR Measurements. <i>Journal of the Physical Society of Japan</i> , 2017, 86, 044710.	3.2	36
29	First-order valence phase transition in $\text{CeNi}_{1-x}\text{Co}_x\text{Sn}$ alloys. <i>Physical Review B</i> , 1995, 52, 12790-12797.	1.6	36
30	Molecular spin-orbit excitations in the frustrated d_3 spinel GeCo_2 . <i>Physical Review B</i> , 2014, 89, .	3.2	35
31	Exotic Magnetism on the Quasi-fcc Lattices of the Double Perovskites $\text{La}_{1-x}\text{Sr}_x\text{Mn}_2\text{O}_7$. <i>Physical Review Letters</i> , 2014, 112, 117603.	3.2	35
32	Double Perovskites $\text{La}_{1-x}\text{Sr}_x\text{Mn}_2\text{O}_7$. <i>Physical Review Letters</i> , 2014, 112, 117603.	7.8	35
33	Electron-doping-induced spin-orbit excitations in the frustrated d_3 spinel GeCo_2 . <i>Physical Review B</i> , 2014, 89, .	3.2	35

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37	superconductivity with line nodes in $CsCa_2Fe$ Time-reversal-symmetry breaking and unconventional pairing in the noncentrosymmetric superconductor La_7Rh_3 . Physical Review B, 2020, 102.	3.2	31
38	Evidence of a Nodal Line in the Superconducting Gap Symmetry of Noncentrosymmetric $ThCoC_2$. Physical Review Letters, 2019, 122, 147001.	7.8	30
40	Signatures of spin-glass behavior in the induced magnetic moment system PrRuSi ₃ . Physical Review B, 2011, 84, .	3.2	29
41	Robust singlet dimers with fragile ordering in two-dimensional honeycomb lattice of Li ₂ RuO ₃ . Scientific Reports, 2016, 6, 25238.	3.3	29
42	A brief review on $\hat{1}/4$ SR studies of unconventional Fe- and Cr-based superconductors. Science China: Physics, Mechanics and Astronomy, 2018, 61, 1.	5.1	29
43	Unconventional superconductivity in the cage-type compound Sc_5Rh_6	3.2	29
44	Complex magnetic behavior in the novel Kondo lattice compound $CeRhSn_3$. Journal of Physics Condensed Matter, 2011, 23, 276001.	1.8	28
45	Magnetic order in the frustrated Ising-like chain compound SrO_6 . Physical Review B, 2014, 90, .	3.2	27
46	Muon spin relaxation study of non-Fermi-liquid behavior near the ferromagnetic quantum critical point in $CePd_{0.15}$. Physical Review B, 2008, 78, .	3.2	26
47	magnetism in LiR_4F_4	3.2	26
48	Multigap superconductivity in ThAsFeN investigated using $\hat{1}/4$ SR measurements. Physical Review B, 2017, 96, .	3.2	26
49	Probing the vortex state of PrRu ₄ Sb ₁₂ through muon spin rotation and relaxation. Physical Review B, 2005, 72, .	3.2	24
50	Observation of two spin gap energies in the filled skutterudite compound CeOs ₄ Sb ₁₂ . Physical Review B, 2007, 75, .	3.2	21
51	Magnetic ordering with reduced cerium moments in hole-doped CeOs ₂ Al ₁₀ . Physical Review B, 2014, 89, .	3.2	20
52	Heavy-fermion behavior in CeInPt ₄ . Physical Review B, 1989, 40, 9378-9381.	3.2	19
53	Muon spin rotation and neutron scattering study of the noncentrosymmetric tetragonal compound $CeAuAl_3$. Physical Review B, 2015, 91, .	3.2	19
54	neutron diffraction investigations on the reentrant ferromagnetic superconductor $\hat{1}/4$ SR		

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55	Magnetic structures and excitations in CePd_2Te_3 series: Development of the ν -states. Physical Review B, 2017, 95, .	3.2	18
56	Evidence of nodal gap structure in the basal plane of the FeSe superconductor. Physical Review B, 2018, 98, .	3.2	18
57	Contrasting carrier doping effects in the Kondo insulator $\text{CeOs}_2\text{Al}_{10}$: The influential role of d - f hybridization in spin-gap formation. Physical Review B, 2014, 90, .	3.2	17
58	Understanding the heavy fermion behavior in CeInPt_4 . Structural and magnetic properties of the perovskites $\text{CeOs}_2\text{Al}_{10}$. Physical Review B, 2017, 96, .	3.2	16
59	Structural and magnetic properties of the perovskites $\text{CeOs}_2\text{Al}_{10}$. Physical Review B, 2017, 96, .		

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73	Frustrated Ising chains on the triangular lattice in $\text{Sr}_2\text{Ir}_2\text{O}_7$. Physical Review B, 2016, 93.	3.2	13
74	Muon spin rotation and neutron scattering investigations of the B_2O_3 -site ordered double perovskite $\text{Sr}_2\text{Ir}_2\text{O}_7$. Physical Review B, 2019, 99, .	3.2	13
75	Probing the superconducting ground state of ZrIrSi : A muon spin rotation and relaxation study. Physical Review B, 2019, 99, .	3.2	12
76	Investigation of superconducting gap structure in HfIrSi using muon spin relaxation/rotation. Journal of Physics Condensed Matter, 2020, 32, 085601.	1.8	12
77	Probing the superconducting gap structure in the noncentrosymmetric topological superconductor ZrRuAs . Physical Review B, 2021, 103, .	3.2	12
78	Density Functional Analysis of the Magnetic Structure of Li_3RuO_4 : Importance of the Ru-O-Ru Spin-Exchange Interactions and Substitutional Ru Defects at the Li Sites. Inorganic Chemistry, 2011, 50, 9400-9405.	4.0	10
79	Noncollinear magnetic order in the $\text{Sr}_3\text{Ru}_2\text{O}_7$. Physical Review B, 2011, 83, 080407.	3.2	10
80	Spin wave excitations in the pyrovanadate V_2O_5 . Physical Review B, 2011, 83, 080407.	3.2	10
81	Quantum fluctuations in the quasi-one-dimensional non-Fermi liquid system CeCo_2Si_2 investigated using ^{139}La NMR. Physical Review B, 2011, 83, 080407.	3.2	10
82	Pairing symmetry of an intermediate valence superconductor CeIr_3 investigated using ^{139}La NMR measurements. Physical Review B, 2021, 103, .	3.2	10
83	Neutron scattering and ^{139}La NMR investigations of quasi-one-dimensional magnetism in the spin-3/2 compound Li_3RuO_4 . Physical Review B, 2011, 84, .	3.2	9
84	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, .	3.2	9
85	Neutron scattering and ^{139}La NMR studies on a Kondo lattice heavy fermion CeRuSn_3 . Journal of Physics: Conference Series, 2015, 592, 012008.	0.4	9
86	Crystal-field states of Kondo lattice heavy fermions CeRuSn_3 and CeRhSn_3 . Physical Review B, 2016, 94, .	3.2	9
87	Experimental observation and computational study of the spin-gap excitation in $\text{Ba}_3\text{BiRu}_2\text{O}_9$. Physical Review B, 2016, 94, .	3.2	9
88	Magnetic order in Nd_2PdSi_3 investigated using neutron scattering and muon spin relaxation. Physical Review B, 2019, 100, .	3.2	9
89	Quantum Griffiths phase near an antiferromagnetic quantum critical point: Muon spin relaxation study of Ce_2O_3 . Physical Review B, 2019, 99, .	3.2	9
90	Commensurate to incommensurate magnetic phase transition in honeycomb-lattice pyrovanadate $\text{Mn}_2\text{V}_2\text{O}_7$. Physical Review Materials, 2019, 3, .	2.4	9

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91	Exploring the complex magnetic phase diagram of Ce ₂ PdGe ₃ : A neutron powder diffraction and ¹ / ₄ SR study. Physical Review B, 2016, 94, .	3.2	8
92	Neutron diffraction study on heavy-fermion compound CeCrGe ₃ . Physical Review B, 2016, 94, .	3.2	8
93	Superconducting gap structure in the electron doped BiS ₂ -based superconductor. Journal of Physics Condensed Matter, 2017, 29, 265602.	1.8	8
94	Induced quadrupolar singlet ground state of praseodymium in a modulated pyrochlore. Physical Review B, 2017, 96, .	3.2	8
95	Complex magnetic properties associated with competing local and itinerant magnetism in $\text{Pr}_{0.2}\text{Co}_{0.86}\text{Si}_{2.88}$. Scientific Reports, 2021, 11, 13245.	3.3	8
96	Muon spin relaxation and neutron diffraction investigations of quadrupolar and magnetically ordered states of YbRu ₂ Ge ₂ . Physical Review B, 2011, 84, .	3.2	7
97	Magnetic and transport properties of PrRhSi ₃ . Journal of Physics Condensed Matter, 2013, 25, 196003.	1.8	7
98	Incommensurate spin-density-wave antiferromagnetism in CeRu ₂ Al ₂ B. Physical Review B, 2016, 93, .	3.2	7
99	Zero-Field Ambient-Pressure Quantum Criticality in the Stoichiometric Non-Fermi Liquid System CeRhBi. Journal of the Physical Society of Japan, 2018, 87, 064708.	1.6	7
100	Ir <i>d</i> -band derived superconductivity in LaIr ₃ . Journal of Physics Condensed Matter, 2020, 32, 065602.	1.8	7
101	Magnetic ground state of the ordered double-perovskite $\text{Sr}_{2}\text{YbRuO}_{6}$: Two magnetic transitions. Physical Review B, 2020, 102, .	3.2	7
102	Observation of a neutron spin resonance in the bilayered superconductor CsCa ₂ Fe ₄ As ₄ F ₂ . Journal of Physics Condensed Matter, 2020, 32, 435603.	1.8	7
103	Investigations of the singlet ground state system: PrIrSi ₃ . Journal of Physics Condensed Matter, 2014, 26, 306001.	1.8	6
104	First-order valence transition: Neutron diffraction, inelastic neutron scattering, and x-ray absorption investigations on the double perovskite $\text{Ba}_{2}\text{Zr}_{2}\text{O}_{6}$. Physical Review B, 2019, 99, .	3.2	6
105	Magnetic ground state of KCr ₃ As ₃ . Physical Review B, 2019, 99, .	3.2	6
106	Antiferromagnetic Correlations in Strongly Valence Fluctuating CeIrSn. Physical Review Letters, 2021, 126, 217202.	7.8	6
107	Electron-phonon superconductivity in C-doped topological nodal-line semimetal Zr ₅ Pt ₃ : a muon spin rotation and relaxation (¹ / ₄ SR) study. Journal of Physics Condensed Matter, 2022, 34, 035602.	1.8	6
108	Nodeless superconductivity in $\text{Lu}_{5}\text{Mn}_{5}$ with broken time reversal symmetry. Physical Review B, 2021, 103, .	1.8	6

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109	Metamagnetism and crystal-field splitting in pseudohexagonal CeRh_3 . Physical Review B, 2022, 105, .	3.2	3
110	Fully gapped superconductivity with preserved time-reversal symmetry in noncentrosymmetric LaPdIn. Physical Review B, 2021, 104, .	3.2	5
111	Neutron Scattering Studies of the Breathing Pyrochlore Antiferromagnet $\text{LiGaCr}_2\text{O}_8$. Physical Review Letters, 2021, 127, 147205.	3.2	4
112	Two-band superconductivity with unconventional pairing symmetry in HfV_2Ga_4 . Physical Review Research, 2020, 2, .	3.6	5
113	Superconductivity in RuP and $\text{RuP}_{0.55}$. Physical Review B, 2018, 98, .	3.2	4
114	Non-collinear Order and Spin-Orbit Coupling in $\text{Sr}_3\text{ZnIrO}_6$. Journal of the Physical Society of Japan, 2020, 89, 064703.	1.6	4
115	Dynamic spin fluctuations in the frustrated spin chain compound $\text{Li}_3\text{Cu}_2\text{SbO}_6$. Physical Review B, 2021, 103, .	3.2	4
116	Crystal electric field and possible coupling with phonons in Kondo lattice CeCuGa_3 . Physical Review B, 2021, 104, .	3.2	4
117	Low temperature specific heat and thermal conductivity of antiferromagnetic Kondo alloy CePdGa . European Physical Journal D, 1996, 46, 2589-2590.	0.4	3
118	Effect of Nd and Rh substitution on the spin dynamics of the Kondo-insulator $\text{CeFe}_2\text{Al}_{10}$. Physical Review B, 2020, 102, .	3.2	3
119	Evidence of nodal superconductivity in LaFeSiH . Physical Review B, 2020, 101, .	3.2	3
120	Exploring a low temperature glassy state, exchange bias effect, and high magnetic anisotropy in Co_2C nanoparticles. Journal of Physics Condensed Matter, 2021, 33, 375804.	1.8	3
121	Magnetic structure of the double perovskite $\text{La}_2\text{NiIrO}_6$ investigated using neutron diffraction. Physical Review Materials, 2022, 6, .	2.4	3
122	Nodeless superconductivity in noncentrosymmetric LaRhSn . Physical Review B, 2022, 105, .	3.2	3
123	Nodeless time-reversal symmetry breaking in the centrosymmetric superconductor Sc_2S_4 probed by muon-spin spectroscopy. Physical Review Materials, 2022, 6, .	3.2	3
124	Interplay between hybridisation gaps and unusual magnetic orders in Kondo semiconductors $\text{Ce}_2\text{Al}_{10}\text{T}$ ($\text{T} = \text{Ru}$ and Os). Philosophical Magazine, 2019, 99, 2984-2999.	1.6	2
125	Superconductivity in the Layered Cage Compound $\text{Ba}_3\text{Rh}_4\text{Ge}_{16}$. Chinese Physics Letters, 2021, 38, 127402.	3.3	2
126	Magnetic structure and crystal field excitations of $\text{NdO}_2\text{Al}_{10}$: a neutron scattering study. Journal of Physics Condensed Matter, 2021, 33, 185802.	1.8	1

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127	Orbital effects and Affleck-Haldane-type spin dimerization in Ba ₄ Ru ₃ O ₁₀ . Physical Review B, 2021, 103, .	3.2	1
128	Crossover from Kondo semiconductor to metallic antiferromagnet with 5d -electron doping in CeFe ₂ Al ₁₀ . Physical Review B, 2021, 104, .	3.2	1
129	Signature of CEF-phonon coupling in Kondo lattice system CeCuGa ₃ . Journal of Physics: Conference Series, 2022, 2164, 012056.	0.4	0