

Ravi Prakash Singh

List of Publications by Year in descending order

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102
papers

1,898
citations

279487

23
h-index

288905

40
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102
all docs

102
docs citations

102
times ranked

2191
citing authors

#	ARTICLE	IF	CITATIONS
1	Controlling Bulk Conductivity in Topological Insulators: Key Role of Anti-Site Defects. <i>Advanced Materials</i> , 2012, 24, 2154-2158.	11.1	258
2	Detection of Time-Reversal Symmetry Breaking in the Noncentrosymmetric Superconductor ReMn_6P_6 by Muon-Spin Spectroscopy. <i>Physical Review Letters</i> , 2014, 112, 107002.	2.9	142
3	Unconventional Superconductivity in LaPtSi by Muon Spin Relaxation: Introducing a New Family of Noncentrosymmetric Superconductor That Breaks Time-Reversal Symmetry. <i>Physical Review Letters</i> , 2015, 115, 267001.	2.9	100
4	Time-Reversal Symmetry Breaking in Re-Based Superconductors. <i>Physical Review Letters</i> , 2018, 121, 257002.	2.9	67
5	Time-reversal symmetry breaking in the noncentrosymmetric superconductor ReMn_6P_6 : Further evidence for unconventional behavior in the ReMn_6P_6 family of	1.1	62
6	Investigations of the superconducting states of noncentrosymmetric LaPdSi and LaPtSi	1.1	60
7	Positive exchange-bias and giant vertical hysteretic shift in $\text{La}_{0.3}\text{Sr}_{0.7}\text{FeO}_3/\text{SrRuO}_3$ bilayers. <i>Scientific Reports</i> , 2014, 4, 4138.	1.6	58
8	Observation of tunable exchange bias in $\text{Sr}_2\text{YbRuO}_6$. <i>Applied Physics Letters</i> , 2010, 97, .	1.5	56
9	Superconducting and normal-state properties of the noncentrosymmetric superconductor ReMn_3P_3	1.1	54
10	Time-reversal symmetry breaking in the noncentrosymmetric superconductor ReTi_6P_6 . <i>Physical Review B</i> , 2018, 97, .	1.1	50
11	Neutron scattering and muon spin relaxation measurements of the noncentrosymmetric antiferromagnet CeCoGe_3 .	1.1	49
12	Anomalous magnetic properties of SrMn_2P_4 . <i>Physical Review B</i> , 2008, 78, .	1.1	44
13	Superconducting properties of the noncentrosymmetric superconductor ReMn_6P_6	1.6	40
14	Superconducting and normal-state properties of the noncentrosymmetric superconductor ReMn_6P_6	1.6	40
15	Superconductivity in a new hexagonal high-entropy alloy. <i>Physical Review Materials</i> , 2019, 3, .	0.9	39
16	Superconductivity in equimolar Nb-Re-Hf-Zr-Ti high entropy alloy. <i>Journal of Alloys and Compounds</i> , 2018, 769, 1059-1063.	2.8	37
17	Time-reversal-symmetry breaking and unconventional pairing in the noncentrosymmetric superconductor LaRh_7P_7	1.1	31
18	Observation of magnetization reversal and negative magnetization in $\text{Sr}_2\text{YbRuO}_6$. <i>Journal of Physics Condensed Matter</i> , 2008, 20, 235209.	0.7	30

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19	Strain relaxation in nanopatterned strained silicon round pillars. Applied Physics Letters, 2007, 90, 021902.	1.5	27
20	Probing the superconducting ground state of the noncentrosymmetric superconductors CaTiSi_3 (CaTiSi_3) muon-spin relaxation and rotation. Physical Review B, 2014, 90, .	1.5	27
21	Evidence of double-gap superconductivity in noncentrosymmetric Nb_2O_7 crystals. Physical Review B, 2015, 91, .	1.5	27
22	Enhancement of the superconducting transition temperature by Re doping in Weyl semimetal MoTe_2 . Physical Review Materials, 2018, 2, http://www.w3.org/1998/Math/MathML	0.9	26
23	Resolved susceptibility function of HkTaSe_2 by charge doping: A Raman study. Physical Review B, 2020, 102, .	1.1	25
24	Tailoring the phase transition and electron-phonon coupling in TaTe_3 by charge doping: A Raman study. Physical Review B, 2020, 102, .	1.1	25
25	Superconducting properties and ^{135}Sb NMR study of the noncentrosymmetric superconductor $\text{Nb}_{0.5}\text{Os}_{0.5}$. Journal of Physics Condensed Matter, 2018, 30, 075601.	0.7	22
26	Type-I superconductivity in the noncentrosymmetric superconductor BeAu. Physical Review B, 2019, 99, .	1.1	20
27	Generation of strain-induced pseudo-magnetic field in a doped type-II Weyl semimetal. Physical Review B, 2019, 100, .	1.1	19
28	Time-reversal symmetry breaking and multigap superconductivity in the noncentrosymmetric superconductor LaNi_7 (LaNi_7) and Ni_3 (Ni_3). Physical Review B, 2021, 103, .	1.1	19
29	Superconducting properties of the noncentrosymmetric superconductor LaPtGe. Physical Review B, 2018, 98, .	1.1	18
30	Electronic, magnetic and spectroscopic properties of doped MnWO_4 (MnWO_4) multiferroic: an experimental and DFT study. Journal of Physics Condensed Matter, 2017, 29, 075901.	1.1	18
31	Fully gapped superconductivity in single crystals of noncentrosymmetric Re_6 (Re_6) with broken time-reversal symmetry. Physical Review B, 2018, 97, .	1.1	18
32	Resonant Soft-X-Ray Emission as a Bulk Probe of Correlated Electron Behavior in Metallic $\text{CaSr}_2\text{CuO}_4$ ($\text{CaSr}_2\text{CuO}_4$). Physical Review Letters, 2013, 111, 047402.	2.9	15
33	Rydberg excitons in synthetic cuprous oxide Cu_2O (Cu_2O). Physical Review Materials, 2021, 5, .	1.1	15
34	Signature of a Griffiths phase in layered canted antiferromagnet Sr_2IrO_4 . Journal of Magnetism and Magnetic Materials, 2018, 468, 230-234.	1.0	14
35	Novel polymeric flocculants based on polyacrylamide grafted dextran in kaolin suspension. Journal of Applied Polymer Science, 2010, 118, 3539-3544.	1.3	13
36	Coexistence of type-I and type-II superconductivity signatures in ZrB_{12} probed by muon spin rotation measurements. Physical Review B, 2020, 102, .	1.1	13

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37	Unconventional superconducting properties of noncentrosymmetric Re ₅ Te ₅ . Physical Review B, 2020, 101, .	1.1	13
38	Unconventional Hall effect and its variation with Co-doping in van der Waals Fe ₃ GeTe ₂ . Scientific Reports, 2021, 11, 14121. Muon spin rotation and neutron scattering investigations of the	1.6	13
39	Investigations of the superconducting ground state of $B\text{Sr}_2\text{Mn}_2\text{O}_{10}$ with spin rotation and neutron scattering	1.1	13
40	Investigations of the superconducting ground state of $\text{Zr}_2\text{Ru}_2\text{O}_{10}$ with spin rotation and neutron scattering: Introducing a new noncentrosymmetric superconductor. Physical Review Materials, 2019, 3, .	1.1	13
41	Room temperature magnetoresistance and exchange bias in $\text{SrCo}_{0.85}\text{Fe}_{0.15}\text{O}_{2.62}$. Applied Physics Letters, 2017, 111, .	1.5	12
42	Exchange bias-like magnetic properties in. Solid State Communications, 2010, 150, 804-808.	0.9	11
43	Crystal growth of the non-centrosymmetric superconductor Nb _{0.18} Re _{0.82} . Journal of Crystal Growth, 2012, 361, 129-131.	0.7	11
44	Enhanced electron correlations at the $\text{Sr}_2\text{Mn}_2\text{O}_{10}$ site ordered double perovskite Physical Review B, 2015, 91, .	1.1	11
45	Effects of rare-earth size on the electronic structure of $\text{La}_{1-x}\text{Lu}_x\text{VO}_3$. Journal of Physics Condensed Matter, 2015, 27, 105503.	0.7	11
46	Superconducting and normal state properties of the noncentrosymmetric superconductor NbO_2 investigated by muon spin relaxation and rotation. Physical Review B, 2019, 99, .	1.1	11
47	Superconducting properties of the non-centrosymmetric superconductors TaXSi (X = Re, Ru). Superconductor Science and Technology, 2021, 34, 055003.	1.8	11
48	Emergent superconductivity by Re doping in type-II Weyl semimetal NiTe_2 . Journal of Physics Condensed Matter, 2021, 33, 135602.	0.7	11
49	Superconducting properties of the noncentrosymmetric superconductor TaOs. Superconductor Science and Technology, 2017, 30, 125003.	1.8	10
50	Crystal growth and properties of the non-centrosymmetric superconductor, Ru ₇ B ₃ . Journal of Crystal Growth, 2014, 395, 22-25.	0.7	9
51	Superconducting ground state of the topological superconducting candidates Ti ₃ X (X=Ir,Sb). Physical Review B, 2021, 103, .	1.1	9
52	Probing the superconducting ground state of the rare-earth ternary boride superconductors RRu_2B_3	1.1	9
53	Point contact Andreev reflection studies of a non-centro symmetric superconductor Re ₆ Zr. Scientific Reports, 2019, 9, 2498.	1.6	8
54	Superconductivity in doped Weyl semimetal $\text{Mo}_{0.9}\text{Ir}_{0.1}\text{Te}_2$ with broken inversion symmetry. Superconductor Science and Technology, 2022, 35, 025011.	1.8	8

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55	Dual role of an ac driving force and the underlying two distinct order-disorder transitions in the vortex phase diagram of $\text{Ca}_3\text{Ir}_4\text{Sn}_{13}$. <i>Physica C: Superconductivity and Its Applications</i> , 2014, 506, 69-75.	0.6	7
56	Moderate magnetic field induced large exchange bias effect in ferrimagnetic $\text{Sr}_3\text{YCo}_4\text{O}_{10.5}$ material. <i>Journal Physics D: Applied Physics</i> , 2018, 51, 065006.	1.3	7
57	Probing nodeless superconductivity in LaMgSi ($T_c = 1.0784314$ K). <i>Overlock</i> 10 Tf 50 657 Td.		
58	Boron based new high entropy alloy superconductor $\text{Mo}_{0.11}\text{W}_{0.11}\text{V}_{0.11}\text{Re}_{0.34}\text{B}_{0.33}$. <i>Superconductor Science and Technology</i> , 2022, 35, 074002.	1.8	7
59	Band Edge Carrier-Induced Sign Reversal of an Ultrafast Nonlinear Optical Response in Few-Layer ReS_2 Nanoflakes. <i>ACS Applied Nano Materials</i> , 2022, 5, 5479-5486.	2.4	7
60	Superconducting and normal-state properties of the high-entropy alloy Nb-Re-Hf-Zr-Ti investigated by muon spin relaxation and rotation. <i>Physical Review B</i> , 2022, 105, .	1.1	7
61	Fully gapped superconductivity in centrosymmetric and noncentrosymmetric Re-B compounds probed with $\text{SR}^{1/4}$. <i>Physical Review B</i> , 2021, 103, .	1.1	6
62	Unveiling of Bragg glass to vortex glass transition by an ac driving force in a single crystal of $\text{Yb}_3\text{Rh}_4\text{Sn}_{13}$. <i>Superconductor Science and Technology</i> , 2015, 28, 085013.	1.8	5
63	Structure and magnetic properties of electrodeposited CoPt/Pt multilayer nanowires. <i>Chemical Physics Letters</i> , 2017, 684, 378-382.	1.2	5
64	Superconducting ground state of the nonsymmorphic superconducting compound $\text{Zr}_2\text{Ni}_2\text{Sn}$. <i>Physical Review B</i> , 2021, 104, .		
65	Time-reversal symmetry breaking in frustrated superconductor $\text{Re}_2\text{Ni}_2\text{Sn}$. <i>Physical Review B</i> , 2022, 105, .		
66	Superconductivity in noncentrosymmetric NbReSi investigated by muon spin rotation and relaxation. <i>Physical Review B</i> , 2022, 105, .	1.1	5
67	Evidence of surface superconductivity and multi-quanta vortex states in a weakly-pinned single crystal of $\text{Ca}_3\text{Ir}_4\text{Sn}_{13}$. <i>Physica C: Superconductivity and Its Applications</i> , 2015, 509, 42-48.	0.6	4
68	Observation of exchange bias effect in $\text{La}_2\text{Ni}_2\text{O}_6$. <i>Journal of Alloys and Compounds</i> , 2017, 705, 849-852.	2.8	4
69	Bulk crystal growth and surface preparation of NiSb, MnSb, and NiMnSb. <i>Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics</i> , 2016, 34, .	0.6	3
70	Angular dependent study of spatial order-disorder transitions in the vortex matter of superconducting $\text{Yb}_3\text{Rh}_4\text{Sn}_{13}$. <i>AIP Conference Proceedings</i> , 2016, .	0.3	3
71	Structure, microstructure and magnetic properties of pulse electrodeposited CoFe-Cu granular thin films. <i>Applied Physics A: Materials Science and Processing</i> , 2019, 125, 1.	1.1	3
72	Multiple magnetization reversal and field induced orbital moment switching in intermetallic SmMnSi compound. <i>Journal of Applied Physics</i> , 2020, 128, 073909.	1.1	3

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73	Type-I superconductivity in single-crystal Pb2Pd. Physical Review B, 2021, 103, .	1.1	3
74	Probing the superconducting ground state of noncentrosymmetric high-entropy alloys using muon-spin rotation and relaxation. Physical Review B, 2021, 104, .	1.1	3
75	Work function of van der Waals topological semimetals: Experiment and theory. Applied Physics Letters, 2022, 120, .	1.5	3
76	Is CeCoSi3 a superconductor?. Journal of Physics: Conference Series, 2012, 391, 012068.	0.3	2
77	Inverse relation of exchange-bias and coercivity in epitaxial bilayer of double ruthenate perovskites. Materials Research Express, 2018, 5, 036105.	0.8	2
78	Enhancement of zonal flow damping due to resonant magnetic perturbations in the background of an equilibrium $E \times B$ sheared flow. Physics of Plasmas, 2018, 25, .	0.7	2
79	Magnetization reversal, giant exchange bias effect and magnetoresistance in oxygen vacancy ordered Sr4Fe3CoO11. Journal Physics D: Applied Physics, 2019, 52, 475001.	1.3	2
80	Giant room temperature exchange bias effect in ϵ -type cobaltate SrCo1-xVxO3 (x = 0.05, 0.1). Journal of Magnetism and Magnetic Materials, 2019, 478, 247-252.	1.0	2
81	Nodeless s-wave superconductivity in the α -Mn structure type noncentrosymmetric superconductor TaOs: a μ SR study. Journal of Physics Condensed Matter, 2020, 32, 015602.	0.7	2
82	Field induced hysteretic structural phase switching and possible CDW in Re-doped MoTe2. Journal of Physics Condensed Matter, 2021, 33, 255401.	0.7	2
83	Suppression of multiple magnetic ordering induced by Nb and Ru substitution in SrCoO3- δ systems. Journal of Alloys and Compounds, 2021, 868, 159261.	2.8	2
84	Spectroscopic evidence of mixed angular momentum symmetry in non-centrosymmetric Ru7B8S3. Scientific Reports, 2021, 11, 21030.	1.6	2
85	Modification of unconventional Hall effect with doping at the nonmagnetic site in a two-dimensional van der Waals ferromagnet. Physical Review Materials, 2022, 6, .	0.9	2
86	Spectroscopic evidence of multigap superconductivity in noncentrosymmetric AuBe. Physical Review B, 2022, 105, .	1.1	2
87	Superconducting and structural properties of the noncentrosymmetric $\text{Re}_{1-x}\text{Mn}_x\text{Fe}_2$ superconductor under high pressure. Physical Review B, 2022, 105, .		
88	Elucidation of peak effect phenomenon in a single crystal of superconducting Ca3Ir4Sn13. AIP Conference Proceedings, 2015, , .	0.3	1
89	Exchange bias properties in Sr2LnRuO6 (Ln = Dy, Ho and Er). Materials Research Express, 2017, 4, 026103.		
90	Unravelling Ultrafast Excited State Absorption in Few Layer ReS2. , 2020, , .		1

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91	Microscopic investigation of the superconducting properties of the strongly coupled superconductor IrGe via $\langle \text{mml:math} \text{xmlns:mml="http://www.w3.org/1998/Math/MathML"} \rangle \langle \text{mml:mi} \hat{1} \rangle \langle \text{mml:mi} \text{SR} \rangle \langle \text{mml:math} \rangle$. Physical Review B, 2022, 105, .	1.1	1
92	Superconductivity in Bi based Bi ₂ PdPt. Materials Advances, 2022, 3, 5375-5382.	2.6	1
93	Spin Compensation In YbSr ₂ RuO ₆ . AIP Conference Proceedings, 2008, , .	0.3	0
94	Exchange bias-like properties in Sr ₂ YRuO ₆ . Journal of Physics: Conference Series, 2010, 200, 012188.	0.3	0
95	Evolution of correlated electron behavior from the surface to the bulk in Sr _x Ca _{1-x} VO ₃ . Materials Research Society Symposia Proceedings, 2015, 1730, 1.	0.1	0
96	Paramagnetic response and novel metastability effects in a single crystal of superconducting Ca ₃ Ir ₄ Sn ₁₃ . AIP Conference Proceedings, 2016, , .	0.3	0
97	Giant Rydberg Excitons in Synthetic and Artificial Cuprous Oxide. , 2018, , .		0
98	Vortex phase diagram study in the superconductor Ca ₃ Ir ₄ Sn ₁₃ . Materials Research Express, 2018, 5, 106002.	0.8	0
99	Exchange bias effect in CoAl ₂ O ₄ . AIP Conference Proceedings, 2018, , .	0.3	0
100	Temperature-Dependent Magnetic Properties of Electrodeposited CoPtP Alloy Nanowires. Journal of Low Temperature Physics, 2018, 193, 1-11.	0.6	0
101	Crystal structure and magnetic behaviour of vanadium doped strontium cobaltate. AIP Conference Proceedings, 2019, , .	0.3	0
102	Optical Switching of Ultrafast Nonlinear Response in Few Layer ReS ₂ . , 2021, , .		0