Ravi Prakash Singh

List of Publications by Year
in descending order

102	1,898	279487 23	288905 40
papers	citations	h-index	g-index

102	102	102	2191
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Superconductivity in doped Weyl semimetal Mo_{0.9}Ir_{0.1}Te₂ with broken inversion symmetry. Superconductor Science and Technology, 2022, 35, 025011.	1.8	8
2	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
3	Work function of van der Waals topological semimetals: Experiment and theory. Applied Physics Letters, 2022, 120, .	1.5	3
4	Microscopic investigation of the superconducting properties of the strongly coupled superconductor IrGe via <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mi>Î¼</mml:mi><mml:mi>SR</mml:mi></mml:math>. Physical Review B, 2022, 105, .	1.1	1
5	Time-reversal symmetry breaking in frustrated superconductor <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mrow><mml:mi>Re</mml:mi></mml:mrow><mml:mn>2</mml:mn> Physical Review B, 2022, 105, .	1.1	5
6	Boron based new high entropy alloy superconductor Mo_{0.11}W_{0.11}V_{0.11}Re_{0.34}B_{0.33}. Superconductor Science and Technology, 2022, 35, 074002.	1.8	7
7	Superconductivity in noncentrosymmetric NbReSi investigated by muon spin rotation and relaxation. Physical Review B, 2022, 105, .	1.1	5
8	Spectroscopic evidence of multigap superconductivity in noncentrosymmetric AuBe. Physical Review B, 2022, 105, .	1.1	2
9	Band Edge Carrier-Induced Sign Reversal of an Ultrafast Nonlinear Optical Response in Few-Layer ReS₂ Nanoflakes. ACS Applied Nano Materials, 2022, 5, 5479-5486.	2.4	7
10	Superconducting and normal-state properties of the high-entropy alloy Nb-Re-Hf-Zr-Ti investigated by muon spin relaxation and rotation. Physical Review B, 2022, 105, .	1.1	7
11	Superconductivity in Bi based Bi₂PdPt. Materials Advances, 2022, 3, 5375-5382.	2.6	1
12	Superconducting and structural properties of the noncentrosymmetric <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>Re</mml:mi><mml:mn>6</mml:mn> superconductor under high pressure. Physical Review B, 2022, 105, .	1.1	2
13	Superconducting ground state of the topological superconducting candidates Ti3X (X=Ir,Sb). Physical Review B, 2021, 103, .	1.1	9
14	Superconducting properties of the non-centrosymmetric superconductors TaXSi (X = Re, Ru). Superconductor Science and Technology, 2021, 34, 055003.	1.8	11
15	Fully gapped superconductivity in centrosymmetric and noncentrosymmetric Re-B compounds probed with <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mi>Î¼</mml:mi><mml:mi mathvariant="normal">SR</mml:mi></mml:math>. Physical Review B, 2021, 103, .	1.1	6
16	Field induced hysteretic structural phase switching and possible CDW in Re-doped MoTe2. Journal of Physics Condensed Matter, 2021, 33, 255401.	0.7	2
17	Time-reversal symmetry breaking and multigap superconductivity in the noncentrosymmetric superconductor <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi mathvariant="normal">La</mml:mi><mml:mn>7</mml:mn></mml:msub><mml:msub><mml:mi mathvariant="normal">Ni</mml:mi><mml:mn>3</mml:mn></mml:msub></mml:math>. Physical Review B, 2021, 103, .	1.1	19
18	Type-I superconductivity in single-crystal Pb2Pd. Physical Review B, 2021, 103, .	1.1	3

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19	Suppression of multiple magnetic ordering induced by Nb and Ru substitution in SrCoO3-Î´ systems. Journal of Alloys and Compounds, 2021, 868, 159261.	2.8	2
20	Unconventional Hall effect and its variation with Co-doping in van der Waals Fe3GeTe2. Scientific Reports, 2021, 11, 14121.	1.6	13
21	Rydberg excitons in synthetic cuprous oxide <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi>Cu</mml:mi><mml:mn>2</mml:mn></mml:msub><mml:msub><mml:mi mathvariant="normal">O</mml:mi></mml:math>. Physical Review Materials, 2021, 5, .	0.9	15
22	Superconducting ground state of the nonsymmorphic superconducting compound <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>Zr</mml:mi><mml:mn>2</mml:mn></mml:r Physical Review B, 2021, 104, .	1.1	5
23	Probing the superconducting ground state of noncentrosymmetric high-entropy alloys using muon-spin rotation and relaxation. Physical Review B, 2021, 104, .	1.1	3
24	Optical Switching of Ultrafast Nonlinear Response in Few Layer ReS2. , 2021, , .		0
25	Emergent superconductivity by Re doping in type -II Weyl semimetal NiTe₂. Journal of Physics Condensed Matter, 2021, 33, 135602.	0.7	11
26	Spectroscopic evidence of mixed angular momentum symmetry in non-centrosymmetric Ru$$_7$$B$$_3$$. Scientific Reports, 2021, 11, 21030.	1.6	2
27	Tailoring the phase transition and electron-phonon coupling in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mn>1</mml:mn><mml:msup><mml:mi>T</mml:mi> by charge doping: A Raman study. Physical Review B, 2020, 102, .	1.1	23
28	Coexistence of type-I and type-II superconductivity signatures in ZrB12 probed by muon spin rotation measurements. Physical Review B, 2020, 102, .	1.1	13
29	Time-reversal-symmetry breaking and unconventional pairing in the noncentrosymmetric superconductor <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi mathvariant="normal">La</mml:mi><mml:mn>7</mml:mn></mml:msub><mml:msub><mml:mi mathvariant="normal">Rh</mml:mi><mml:mn>3</mml:mn></mml:msub></mml:math>. Physical Review B, 2020, 102, .	1.1	31
30	Multiple magnetization reversal and field induced orbital moment switching in intermetallic SmMnSi compound. Journal of Applied Physics, 2020, 128, 073909.	1.1	3
31	Probing nodeless superconductivity in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mi>La</mml:mi><mml:mi>M</mml:mi><mml:mi>Si</mml:mi></mml:ma (<mml:math) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 257 Td (xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mi:	1.1	7
32	Nodeless s-wave superconductivity in the $alpha$ -Mn structure type noncentrosymmetric superconductor TaOs: a mu SR study. Journal of Physics Condensed Matter, 2020, 32, 015602.	0.7	2
33	Unconventional superconducting properties of noncentrosymmetric Re5.5Ta. Physical Review B, 2020, 101, .	1.1	13
34	Muon spin rotation and neutron scattering investigations of the <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>B</mml:mi></mml:mrow></mml:math> -site ordered double perovskite <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi mathvariant="normal">S</mml:mi><mml:msub><mml:mi mathvariant="normal">r</mml:mi><mml:mn>2</mml:mn></mml:msub><mml:mi>DyRu</mml:mi><mml:msub><mml:mi	1.1	13
35	Unravelling Ultrafast Excited State Absorption in Few Layer ReS2. , 2020, , .		1
36	Structure, microstructure and magnetic properties of pulse electrodeposited CoFeâ€“Cu granular thin films. Applied Physics A: Materials Science and Processing, 2019, 125, 1.	1.1	3

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37	Magnetization reversal, giant exchange bias effect and magnetoresistance in oxygen vacancy ordered Sr4Fe3CoO11. Journal Physics D: Applied Physics, 2019, 52, 475001.	1.3	2
38	Generation of strain-induced pseudo-magnetic field in a doped type-II Weyl semimetal. Physical Review B, 2019, 100, .	1.1	19
39	Giant room temperature exchange bias effect in â€œ314-typeâ€•cobaltate SrCo1â^'xVxO3â^'Î´ (xâ€¯=â€¯0.05, 0.1). Journal of Magnetism and Magnetic Materials, 2019, 478, 247-252.	1.0	2
40	Superconducting and normal state properties of the noncentrosymmetric superconductor <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi>NbOs</mml:mi><mml:mn>2</mml:mn></mml:msub></m investigated by muon spin relaxation and rotation. Physical Review B, 2019, 99, .	1.1	11
41	Crystal structure and magnetic behaviour of vanadium doped strontium cobaltate. AIP Conference Proceedings, 2019, , .	0.3	0
42	Point contact Andreev reflection studies of a non-centro symmetric superconductor Re6Zr. Scientific Reports, 2019, 9, 2498.	1.6	8
43	Type-I superconductivity in the noncentrosymmetric superconductor BeAu. Physical Review B, 2019, 99, .	1.1	20
44	Superconductivity in a new hexagonal high-entropy alloy. Physical Review Materials, 2019, 3, .	0.9	39
45	Investigations of the superconducting ground state of <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>Zr</mml:mi><mml:mn>3</mml:mn></mml:msub><mml:mi> : Introducing a new noncentrosymmetric superconductor. Physical Review Materials, 2019, 3, .	0.9	13
46	Inverse relation of exchange-bias and coercivity in epitaxial bilayer of double ruthenate perovskites. Materials Research Express, 2018, 5, 036105.	0.8	2
47	Superconducting properties andÎ¼SR study of the noncentrosymmetric superconductor Nb_{0.5}Os_{0.5}. Journal of Physics Condensed Matter, 2018, 30, 075601.	0.7	22
48	Moderate magnetic field induced large exchange bias effect in ferrimagnetic 314â€”Sr3YCo4O10.5material. Journal Physics D: Applied Physics, 2018, 51, 065006.	1.3	7
49	Probing the superconducting ground state of the rare-earth ternary boride superconductors RRuB2 () Tj ETQq1 1 0.784314 rgBT /Ove	1.1	8
50	Time-reversal symmetry breaking in the noncentrosymmetric superconductor <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi mathvariant="normal">Re</mml:mi><mml:mn>6</mml:mn></mml:msub><mml:mi>Ti</mml:mi></mml:math>. Physical Review B, 2018, 97, .	1.1	50
51	Giant Rydberg Excitons in Synthetic and Artificial Cuprous Oxide. , 2018, , .		0
52	Time-Reversal Symmetry Breaking in Re-Based Superconductors. Physical Review Letters, 2018, 121, 257002.	2.9	67
53	Superconducting properties of the noncentrosymmetric superconductor LaPtGe. Physical Review B, 2018, 98, .	1.1	18
54	Vortex phase diagram study in the superconductor Ca3Ir4Sn13. Materials Research Express, 2018, 5, 106002.	0.8	0

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55	Enhancement of zonal flow damping due to resonant magnetic perturbations in the background of an equilibrium E Ã— B sheared flow. Physics of Plasmas, 2018, 25, .	0.7	2
56	Superconducting and normal-state properties of the noncentrosymmetric superconductor <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>Re</mml:mi><mml:mn>3</mml:mn></mml:r Physical Review B, 2018, 98, .	1.1	54
57	Exchange bias effect in CoAl2O4. AIP Conference Proceedings, 2018, , .	0.3	0
58	Superconductivity in equimolar Nb-Re-Hf-Zr-Ti high entropy alloy. Journal of Alloys and Compounds, 2018, 769, 1059-1063.	2.8	37
59	Signature of a Griffiths phase in layered canted antiferromagnet Sr2IrO4. Journal of Magnetism and Magnetic Materials, 2018, 468, 230-234.	1.0	14
60	Fully gapped superconductivity in single crystals of noncentrosymmetric <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>Re</mml:mi><mml:mn>6</mml:mn></mml:r with broken time-reversal symmetry. Physical Review B, 2018, 97, .	1.1	66
61	Temperature-Dependent Magnetic Properties of Electrodeposited CoPtP Alloy Nanowires. Journal of Low Temperature Physics, 2018, 193, 1-11.	0.6	0
62	Enhancement of the superconducting transition temperature by Re doping in Weyl semimetal <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi mathvariant="normal">MoTe</mml:mi><mml:mn>2</mml:mn></mml:msub></mml:math>. Physical Review Materials, 2018, 2, .	0.9	26
63	Electronic, magnetic and spectroscopic properties of doped Mn_(1â^'x)A_xWO₄(Aâ€‰â€‰=â€‰â€‰Co, Cu, Ni and Fe) multiferroic: an experimental and DFT study. Journal of Physics Condensed Matter, 2017, 29, 075901.	1.7	12
64	Observation of exchange bias effect in La2NiIrO6. Journal of Alloys and Compounds, 2017, 705, 849-852.	2.8	4
65	Time-reversal symmetry breaking in the noncentrosymmetric superconductor <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>Re</mml:mi><mml:mn>6</mml:mn></mml:r : Further evidence for unconventional behavior in the <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mi>Î±</mml:mi></mml:math> -Mn family of materials. Physical Review B, 2017, 96, .	1.1	62
66	Superconducting properties of the noncentrosymmetric superconductor TaOs. Superconductor Science and Technology, 2017, 30, 125003.	1.8	10
67	Superconducting and normal-state properties of the noncentrosymmetric superconductor<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>Re</mml:mi><mml:mn>6</mml:mn></mml:r Physical Review B, 2017, 96, .	1.1	40
68	Room temperature magnetoresistance and exchange bias in â€œ314-typeâ€•oxygen-vacancy ordered SrCo0.85Fe0.15O2.62. Applied Physics Letters, 2017, 111, .	1.5	12
69	Exchange bias properties in Sr2LnRuO6(Lnâ€‰â€‰=â€‰â€‰Dy, Ho and Er). Materials Research Express, 2017, 4, 126103.	1.1	1
70	Structure and magnetic properties of electrodeposited CoPtP/Pt multilayer nanowires. Chemical Physics Letters, 2017, 684, 378-382.	1.2	5
71	Bulk crystal growth and surface preparation of NiSb, MnSb, and NiMnSb. Journal of Vacuum Science and Technology B:Nanotechnology and Microelectronics, 2016, 34, .	0.6	3
72	Superconducting properties of the noncentrosymmetric superconductor<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>Re</mml:mi><mml:mn>6</mml:mn></mml:r Physical Review B, 2016, 94, .	1.1	42

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73	Angular dependent study of spatial order-disorder transitions in the vortex matter of superconducting Yb3Rh4Sn13. AIP Conference Proceedings, 2016, , .	0.3	3
74	Paramagnetic response and novel metastability effects in a single crystal of superconducting Ca3Ir4Sn13. AIP Conference Proceedings, 2016, , .	0.3	0
75	Evolution of correlated electron behavior from the surface to the bulk in SrxCa1-xVO3. Materials Research Society Symposia Proceedings, 2015, 1730, 1.	0.1	0
76	Evidence of double-gap superconductivity in noncentrosymmetric<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>Nb</mml:mi><mml:mrow><mml:mn>0.18</ crystals. Physical Review B, 2015, 91, .	1.1	26
77	Enhanced electron correlations at the<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>Sr</mml:mi><mml:mi>x</mml:mi></mml:msub></mml: Physical Review B, 2015, 91, .	1.1	11
78	Unconventional Superconductivity in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mi>La</mml:mi></mml:mrow><mml:mrow><mml:mn>7</mml:mn></mm by Muon Spin Relaxation: Introducing a New Family of Noncentrosymmetric Superconductor That Breaks Time-Reversal Symmetry. Physical Review Letters, 2015, 115, 267001.	2.9	100
79	Elucidation of peak effect phenomenon in a single crystal of superconducting Ca3Ir4Sn13. AIP Conference Proceedings, 2015, , .	0.3	1
80	Evidence of surface superconductivity and multi-quanta vortex states in a weakly-pinned single crystal of Ca3Ir4Sn13. Physica C: Superconductivity and Its Applications, 2015, 509, 42-48.	0.6	4
81	Unveiling of Bragg glass to vortex glass transition by an ac driving force in a single crystal of Yb3Rh4Sn13. Superconductor Science and Technology, 2015, 28, 085013.	1.8	5
82	Effects of rare-earth size on the electronic structure of La_{1â^'x}Lu_xVO₃. Journal of Physics Condensed Matter, 2015, 27, 105503.	0.7	11
83	Investigations of the superconducting states of noncentrosymmetric LaPdSi<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mrow /><mml:mn>3</mml:mn></mml:msub></mml:math>and LaPtSi<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mrow	1.1	60
84	Detection of Time-Reversal Symmetry Breaking in the Noncentrosymmetric Superconductor<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mi>Re</mml:mi></mml:mrow><mml:mrow><mml:mn>6</mml:mn></mm Muon-Spin Spectroscopy. Physical Review Letters, 2014, 112, 107002.	2.9	142
85	Crystal growth and properties of the non-centrosymmetric superconductor, Ru7B3. Journal of Crystal Growth, 2014, 395, 22-25.	0.7	9
86	Dual role of an ac driving force and the underlying two distinct orderâ€“disorder transitions in the vortex phase diagram of Ca 3 Ir 4 Sn 13. Physica C: Superconductivity and Its Applications, 2014, 506, 69-75.	0.6	7
87	Probing the superconducting ground state of the noncentrosymmetric superconductors<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mi>Ca</mml:mi><mml:mi>T</mml:mi><mml:msub><mml:mrow><mml:mi mathvariant="normal">Si</mml:mi></mml:mrow><mml:mn>3</mml:mn></mml:msub></mml:math>(<mml:math muon-spin relaxation and rotation. Physical Review B, 2014, 90, .	1.1	20
88	Positive exchange-bias and giant vertical hysteretic shift in La0.3Sr0.7FeO3/SrRuO3 bilayers. Scientific Reports, 2014, 4, 4138.	1.6	58
89	Resonant Soft-X-Ray Emission as a Bulk Probe of Correlated Electron Behavior in Metallic<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mi>Sr</mml:mi><mml:mi>x</mml:mi></mml:msub><mml:msub><mml:mi>Ca</mml:mi><mml:mi Physical Review Letters, 2013, 111, 047402.	2.9	15
90	Neutron scattering and muon spin relaxation measurements of the noncentrosymmetric antiferromagnet<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mi mathvariant="bold">CeCoGe</mml:mi><mml:mn mathvariant="bold">3</mml:mn></mml:msub></mml:math>. Physical Review B, 2013, 88, .	1.1	49

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91	display="inline"><mml:mi>k</mml:mi></mml:math>-resolved susceptibility function of 2<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>H</mml:mi></mml:math>-TaSe<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>from angle-resolved photoemission. Physical Review	1.1	25
92	Is CeCoSi3a superconductor?. Journal of Physics: Conference Series, 2012, 391, 012068.	0.3	2
93	Crystal growth of the non-centrosymmetric superconductor Nb0.18Re0.82. Journal of Crystal Growth, 2012, 361, 129-131.	0.7	11
94	Controlling Bulk Conductivity in Topological Insulators: Key Role of Antiâ€Site Defects. Advanced Materials, 2012, 24, 2154-2158.	11.1	258
95	Exchange bias-like properties in Sr₂YRuO₆. Journal of Physics: Conference Series, 2010, 200, 012188.	0.3	0
96	Novel polymeric flocculants based on polyacrylamide grafted dextran in kaolin suspension. Journal of Applied Polymer Science, 2010, 118, 3539-3544.	1.3	13
97	Exchange bias-like magnetic properties in. Solid State Communications, 2010, 150, 804-808.	0.9	11
98	Observation of tunable exchange bias in Sr2YbRuO6. Applied Physics Letters, 2010, 97, .	1.5	56
99	Observation of magnetization reversal and negative magnetization in Sr₂YbRuO₆. Journal of Physics Condensed Matter, 2008, 20, 235209.	0.7	30
100	Spin Compensation In YbSr[sub 2]RuO[sub 6]. AIP Conference Proceedings, 2008, , .	0.3	0
101	Anomalous magnetic properties of<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mtext>Sr</mml:mtext></mml:mrow><mml:mn>2</mml:mn></mml:msub> Physical Review B, 2008, 78, .	1.1	44
102	Strain relaxation in nanopatterned strained silicon round pillars. Applied Physics Letters, 2007, 90, 021902.	1.5	27