

# Rajveer Jha

## List of Publications by Year in descending order

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95  
papers

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331670  
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377865  
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95  
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95  
docs citations

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times ranked

1394  
citing authors

#	ARTICLE	IF	CITATIONS
1	Synthesis and Superconductivity of New BiS <sub>2</sub> Based Superconductor Pr <sub>0.5</sub> F <sub>0.5</sub> BiS <sub>2</sub> . Journal of Superconductivity and Novel Magnetism, 2013, 26, 499-502.	1.8	190
2	Appearance of superconductivity in layered LaO <sub>0.5</sub> F <sub>0.5</sub> BiS <sub>2</sub> . Solid State Communications, 2013, 157, 21-23.	1.9	109
3	Superconductivity at 5 K in NdO <sub>0.5</sub> F <sub>0.5</sub> BiS <sub>2</sub> . Journal of Applied Physics, 2013, 113, .	2.5	88
4	Room temperature magnetic entropy change and magnetoresistance in La <sub>0.70</sub> (Ca <sub>0.30</sub> <sup>x</sup> S <sub>x</sub> )MnO <sub>3</sub> :Ag 10% (x=0.0 <sup>x</sup> 0.10). Journal of Magnetism and Magnetic Materials, 2012, 324, 2849-2853.	2.3	45
5	<math>\text{MoTe}_2</math> An uncompensated semimetal with extremely large magnetoresistance. Physical Review B, 2017, 95, .		
6	Impact of Hydrostatic Pressure on Superconductivity of Sr <sub>0.5</sub> La <sub>0.5</sub> F <sub>0.5</sub> BiS <sub>2</sub> . Journal of the Physical Society of Japan, 2014, 83, 063707.	1.6	43
7	Appearance of bulk superconductivity under hydrostatic pressure in Sr <sub>0.5</sub> RE <sub>0.5</sub> FBiS <sub>2</sub> (RE=Eu, Ce, Nd, Pr) T <sub>c</sub> 1.7 K	2.5	46
8	Intrinsic Phase Diagram of Superconductivity in the BiCh <sub>2</sub> -Based System Without In-Plane Disorder. Journal of the Physical Society of Japan, 2017, 86, 074701.	1.6	35
9	Optical evidence of the type-II Weyl semimetals and WTe <sub>2</sub> of new BiS <sub>2</sub> based Bi <sub>4</sub> O <sub>4</sub> S <sub>3</sub> and NdO <sub>0.5</sub> F <sub>0.5</sub> BiS <sub>2</sub> layered superconductors. Physical Review B, 2019, 99, .	3.2	34
10	Hydrostatic pressure effect on T <sub>c</sub> of new BiS <sub>2</sub> based Bi <sub>4</sub> O <sub>4</sub> S <sub>3</sub> and NdO <sub>0.5</sub> F <sub>0.5</sub> BiS <sub>2</sub> layered superconductors. Physica Status Solidi - Rapid Research Letters, 2013, 7, 510-513.	2.4	32
11	An efficient way of increasing the total entropy of mixing in high-entropy-alloy compounds: a case of NaCl-type (Ag,In,Pb,Bi)Te <sub>1-x</sub> Se <sub>x</sub> (x = 0.0, 0.25, 0.5) superconductors. Dalton Transactions, 2020, 49, 9118-9122.	3.3	30
12	The effect of synthesis temperature on the superconducting properties of n-SiC added bulk MgB <sub>2</sub> superconductor. Superconductor Science and Technology, 2011, 24, 045013.	3.5	29
13	AC Susceptibility Study of Superconducting YBa <sub>2</sub> Cu <sub>3</sub> O <sub>7</sub> :Ag <sub>x</sub> Bulk Composites (x=0.0 <sup>x</sup> 0.20): The Role of Intra and Intergranular Coupling. Journal of Superconductivity and Novel Magnetism, 2013, 26, 2347-2352.	1.8	27
14	Superconducting and magneto-transport properties of BiS <sub>2</sub> based superconductor Pr <sub>0.1-x</sub> F <sub>x</sub> BiS <sub>2</sub> (x=0.0 <sup>x</sup> 0.0) T <sub>c</sub> 0.7 K	2.5	0
15	Bulk Superconductivity Induced by In-Plane Chemical Pressure Effect in Eu <sub>0.5</sub> La <sub>0.5</sub> F <sub>0.5</sub> BiS <sub>2</sub> . Journal of the Physical Society of Japan, 2016, 85, 124708.	1.6	27
16	Superconducting properties of high-entropy-alloy tellurides M-Te (M: Ag, In, Cd, Sn, Sb, Pb, Bi) with a NaCl-type structure. Applied Physics Express, 2020, 13, 033001.	2.4	26
17	Impact of Particle Size on Room Temperature Ferrimagnetism of SrFe <sub>12</sub> O <sub>19</sub> . Journal of Superconductivity and Novel Magnetism, 2010, 23, 423-427.	1.8	25
18	PdTe: a 4.5 K type-II BCS superconductor. Superconductor Science and Technology, 2015, 28, 055008.	3.5	23

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19	Enhanced flux pinning in YBCO multilayer films with BCO nanodots and segmented BZO nanorods. Scientific Reports, 2017, 7, 14682.	3.3	23
20	Robust superconductivity with large upper critical field in Nb <sub>2</sub> PdS <sub>5</sub> . Journal of Applied Physics, 2014, 115, 213903.	2.5	22
21	Effect of hydrostatic pressures on the superconductivity of new BiS <sub>2</sub> based REO <sub>0.5</sub> F <sub>0.5</sub> BiS <sub>2</sub> (RE=La, <sub>s</sub> ) T <sub>j</sub> ETQq1 4.8 7.84314 rgBT /Ov		
22	Structural and Magnetic Properties of Flux-Free Large FeTe Single Crystal. Journal of Superconductivity and Novel Magnetism, 2015, 28, 2893-2897.	1.8	22
23	Unusual Dirac Fermions on the Surface of a Noncentrosymmetric $\text{Bi}_{1-x}\text{Pd}_x$ Superconductor. Physical Review Letters, 2016, 117, 177001.	7.8	21
24	Flux free growth of large FeSe <sub>1/2</sub> Te <sub>1/2</sub> superconducting single crystals by an easy high temperature melt and slow cooling method. AIP Advances, 2015, 5, .	1.3	20
25	Vacuum Encapsulated Synthesis of 11.5 K NbC Superconductor. Journal of Superconductivity and Novel Magnetism, 2012, 25, 1421-1425.	1.8	19
26	Superconductivity in Layered CeO <sub>0.5</sub> F <sub>0.5</sub> BiS <sub>2</sub> . Journal of Superconductivity and Novel Magnetism, 2014, 27, 1-4.	1.8	19
27	Optimization of the $\text{BaCeO}_3$ Concentration in YBCO Films Prepared by Pulsed Laser Deposition. IEEE Transactions on Applied Superconductivity, 2011, 21, 2762-2766.	1.7	17
28	Magnetization and magneto-resistance in Y(Ba <sub>1-x</sub> Sr <sub>x</sub> ) <sub>2</sub> Cu <sub>3</sub> O <sub>7</sub> . Journal of Superconductivity and Novel Magnetism, 2012, 25, 1421-1425.	1.7	17
29	Tailoring phase slip events through magnetic doping in superconductor-ferromagnet composite films. Scientific Reports, 2015, 5, 13459.	3.3	17
30	Pressure enhanced superconductivity at 10 K in La doped EuBiS <sub>2</sub> F. Superconductor Science and Technology, 2015, 28, 115010.	3.5	17
31	Superconductivity in Layered Oxychalcogenide La <sub>2</sub> O <sub>2</sub> Bi <sub>3</sub> AgS <sub>6</sub> . Journal of the Physical Society of Japan, 2018, 87, 083704.	1.6	17
32	High field magneto-transport and magnetization study of Y <sub>1-x</sub> CaxBa <sub>2</sub> Cu <sub>3</sub> (x=0.00-0.25). Journal of Alloys and Compounds, 2012, 543, 135-141.	5.5	16
33	Role of MgO impurity on the superconducting properties of MgB <sub>2</sub> . Physica C: Superconductivity and Its Applications, 2014, 505, 104-108.	1.2	16
34	Effect of Se doping in recently discovered layered Bi <sub>4</sub> O <sub>4</sub> S <sub>3</sub> superconductor. Physica C: Superconductivity and Its Applications, 2014, 498, 45-49.	1.2	15
35	Detection of Hole Pockets in the Candidate Type-II Weyl Semimetal $\text{Mo}_{1-x}\text{Te}_x$ from Shubnikov-de Haas Quantum Oscillations. Physical Review Letters, 2020, 124, 076402.	1.5	15
36	Significant enhancement of superconductivity under Hydrostatic pressure in CeO <sub>0.5</sub> F <sub>0.5</sub> BiS <sub>2</sub> superconductor. Solid State Communications, 2014, 194, 6-9.	1.9	13

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37	Superconducting properties of BiS <sub>2</sub> -based superconductor NdO <sub>1-x</sub> F <sub>x</sub> BiS <sub>2</sub> (x= 0 to 0.9). Materials Research Express, 2014, 1, 016002.	1.6	12
38	X-ray Photoelectron Spectroscopy, Magnetotransport and Magnetisation Study of Nb <sub>2</sub> PdS <sub>5</sub> Superconductor. Journal of Superconductivity and Novel Magnetism, 2018, 31, 943-949.	1.8	12
39	Angular and field dependent flux pinning in artificially doped YBCO films on IBAD-MgO based template. Physica C: Superconductivity and Its Applications, 2018, 555, 15-23.	1.2	12
40	High-Pressure Synthesis and Superconducting Properties of NaCl-Type In <sub>1-x</sub> Pb <sub>x</sub> Te (x = 0~0.8). Condensed Matter, 2020, 5, 14.	1.8	12
41	Unconventional isotope effect on transition temperature in BiS <sub>2</sub> -based superconductor Bi <sub>4</sub> O <sub>4</sub> S <sub>3</sub> . Applied Physics Express, 2020, 13, 093001.	2.4	12
42	Weak ferromagnetism in a noncentrosymmetric BiPd 4 K superconductor. Superconductor Science and Technology, 2016, 29, 025008.	3.5	11
43	Hydrostatic pressure effect on the superconducting properties of BaBi <sub>3</sub> and SrBi <sub>3</sub> single crystals. Superconductor Science and Technology, 2017, 30, 025015.	3.5	11
44	Enhanced superconductivity by Na doping in SnAs-based layered compound Na <sub>1+x</sub> Sn <sub>2-x</sub> As <sub>2</sub> . Japanese Journal of Applied Physics, 2019, 58, 083001.	1.5	11
45	The Angular Dependence of the Critical Current of $\text{BaCeO}_3$ Doped $\text{YBa}_2\text{Cu}_3\text{O}_{6+x}$ Thin Films. IEEE Transactions on Applied Superconductivity, 2015, 25, 1-5.	1.7	10
46	Specific Heat of Robust Nb <sub>2</sub> PdS <sub>5</sub> Superconductor. Journal of Superconductivity and Novel Magnetism, 2015, 28, 1427-1432.	1.8	10
47	Bulk superconductivity in a four-layer-type Bi-based compound La <sub>2</sub> O <sub>2</sub> Bi <sub>3</sub> Ag <sub>0.6</sub> Sn <sub>0.4</sub> S <sub>5.7</sub> Se <sub>0.3</sub> . Scientific Reports, 2019, 9, 13346.	3.3	10
48	Revealing an elusive metastable wurtzite CuFeS <sub>2</sub> and the phase switching between wurtzite and chalcopyrite for thermoelectric thin films. Acta Materialia, 2022, 235, 118090.	7.9	10
49	Magnetotransport studies of FeSe under hydrostatic pressure. AIP Advances, 2014, 4, .	1.3	9
50	Superconductivity at 4.4 K in PdTe <sub>2</sub> Chains of a Ta-Based Compound. Journal of Superconductivity and Novel Magnetism, 2015, 28, 1195-1198.	1.8	9
51	Dirty limit scattering behind the decreased anisotropy of doped YBa <sub>2</sub> Cu <sub>3</sub> O <sub>7-x</sub> thin films. Journal of Physics Condensed Matter, 2016, 28, 175702.	1.8	9
52	Possibility for conventional superconductivity in Sr 0.1 Bi 2 Se 3 from high-pressure transport studies. Europhysics Letters, 2017, 118, 47008.	2.0	9
53	Anisotropy in the electronic transport properties of Weyl semimetal WTe <sub>2</sub> single crystals. AIP Advances, 2018, 8, 101332.	1.3	9
54	High field (14 T) magneto transport of Sm/PrFeAsO. Journal of Applied Physics, 2012, 111, 07E323.	2.5	8

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55	Hydrostatic Pressure Studies on Parent Phase SrBiS <sub>2</sub> of BiS <sub>2</sub> -Based Superconducting Family. <i>Journal of the Physical Society of Japan</i> , 2014, 83, 105001.	1.6	8
56	Superconductivity at 4 K in Pd-Deficient Layered Ta <sub>2</sub> Pd <sub>x</sub> S <sub>6</sub> . <i>Journal of Superconductivity and Novel Magnetism</i> , 2014, 27, 2181-2183.	1.8	8
57	Anomalous Impact of Hydrostatic Pressure on Superconductivity of Polycrystalline LaO <sub>0.5</sub> F <sub>0.5</sub> BiSe <sub>2</sub> . <i>Journal of Superconductivity and Novel Magnetism</i> , 2015, 28, 2229-2233.	1.8	8
58	Improved superconducting properties of La <sub>3</sub> Co <sub>4</sub> Sn <sub>13</sub> with indium substitution. <i>Journal of Alloys and Compounds</i> , 2016, 665, 333-338.	5.5	8
59	Superconducting gap structure in the electron doped BiS <sub>2</sub> -based superconductor. <i>Journal of Physics Condensed Matter</i> , 2017, 29, 265602.	1.8	8
60	Temperature-independent band structure of $\text{WTe}_2$ as observed from angle-resolved photoemission spectroscopy. <i>Physical Review B</i> , 2017, 96,		
61	Impact of Gd Doping on Morphology and Superconductivity of NbN Sputtered Thin Films. <i>Journal of Superconductivity and Novel Magnetism</i> , 2013, 26, 3069-3074.	1.8	7
62	Impact of Ni doping on critical parameters of PdTe superconductor. <i>Superconductor Science and Technology</i> , 2016, 29, 075008.	3.5	7
63	Deposition of YBCO Thin Films in View of Microwave Applications. <i>IEEE Transactions on Applied Superconductivity</i> , 2017, 27, 1-5.	1.7	7
64	Revisiting Heat Capacity of Bulk Polycrystalline YBa <sub>2</sub> Cu <sub>3</sub> O <sub>7</sub> . <i>Journal of Superconductivity and Novel Magnetism</i> , 2014, 27, 287-291.	1.8	6
65	Comparison of microstructure and electronic properties of TiO <sub>2</sub> thin films grown by different techniques. <i>Surface Engineering</i> , 2011, 27, 350-354.	2.2	5
66	Fabrication of DC sputtered NbN thick film with high upper critical field of above 400 kOe. , 2012, , .		5
67	Effect of Boron substitution on the superconductivity of non-oxide perovskite MgCNi <sub>3</sub> . <i>Solid State Communications</i> , 2012, 152, 1678-1682.	1.9	5
68	Deviation from the Kohler's rule and Shubnikov-de Haas oscillations in type-II Weyl semimetal WTe <sub>2</sub> : High magnetic field study up to 56 T. <i>AIP Advances</i> , 2018, 8, 101330.	1.3	5
69	Superconductivity in La <sub>2</sub> O <sub>2</sub> M <sub>4</sub> S <sub>6</sub> -Type Bi-based Compounds: A Review on Element Substitution Effects. <i>Condensed Matter</i> , 2020, 5, 27.	1.8	5
70	Superconductivity in the vicinity of ferromagnetism in oxygen free perovskite MgCNi <sub>3</sub> : An experimental and density functional theory study. <i>Journal of Applied Physics</i> , 2012, 111, 033907.	2.5	4
71	Superconductivity at 25 K under Hydrostatic Pressure for FeTe <sub>0.5</sub> Se <sub>0.5</sub> Superconductor. <i>Journal of Superconductivity and Novel Magnetism</i> , 2014, 27, 1599-1602.	1.8	4
72	Anomalous magnetotransport properties of high-quality single crystals of Weyl semimetal WTe <sub>2</sub> : Sign change of Hall resistivity. <i>Physica B: Condensed Matter</i> , 2018, 536, 68-71.	2.7	4

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73	Improvement of superconducting properties by chemical pressure effect in Eu-doped La <sub>2</sub> -EuO <sub>2</sub> Bi <sub>3</sub> Ag <sub>0.6</sub> Sn <sub>0.4</sub> S <sub>6</sub> . <i>Physica C: Superconductivity and Its Applications</i> , 2020, 576, 1353731.	1.2	4
74	Evolution of two bulk-superconducting phases in Sr <sub>0.5</sub> RE <sub>0.5</sub> FBiS <sub>2</sub> (RE: La, Ce, Pr, Nd, Sm) by external hydrostatic pressure effect. <i>Scientific Reports</i> , 2020, 10, 12880.	3.3	4
75	Effect of pressure on superconductivity in the indium-doped topological crystalline insulator SnTe. <i>Journal of Physics Condensed Matter</i> , 2015, 27, 242201.	1.8	3
76	Structural and Transport Studies of Under-Doped FeTe <sub>1-x</sub> Se <sub>x</sub> (x = 0.0, 0.01, 0.03, 0.05) Single Crystals. <i>Journal of Superconductivity and Novel Magnetism</i> , 2016, 29, 543-545.	1.8	3
77	Superconductivity in Se-doped La <sub>2</sub> O <sub>2</sub> Bi <sub>2</sub> Pb <sub>2</sub> S <sub>6-x</sub> Sex with a Bi <sub>2</sub> Pb <sub>2</sub> Ch <sub>4</sub> -type thick conducting layer. <i>Europhysics Letters</i> , 2020, 129, 67001.	2.0	3
78	Bulk Superconductivity Induced by Se Substitution in Self-Doped BiCh <sub>2</sub> -Based Compound CeOBiS <sub>2</sub> â˜‘ <sub>x</sub> Se <sub>x</sub> . <i>Journal of the Physical Society of Japan</i> , 2020, 89, 064702.	1.6	3
79	High-pressure effects on superconducting properties and crystal structure of Bi-based layered superconductor La <sub>2</sub> O <sub>2</sub> Bi <sub>3</sub> Ag <sub>0.6</sub> Sn <sub>0.4</sub> S <sub>6</sub> . <i>Journal of Physics Condensed Matter</i> , 2021, 33, 225702.	1.8	3
80	The effect of BaCeO <sub>3</sub> dopant concentration on magnetically defined B <sub>2</sub> iTT and B <sub>2</sub> i <sub>2</sub> in YBa <sub>2</sub> Cu <sub>3</sub> O <sub>6+x</sub> thin films deposited on SrTiO <sub>3</sub> substrates. <i>Journal of Physics: Conference Series</i> , 2014, 507, 012020.	0.4	2
81	Control of sputtering parameters for deposition of NbN thick films. <i>Novel Superconducting Materials</i> , 2015, 1, .	0.8	2
82	A Structural Optimization of Ferrite/YBCO Bilayers. <i>IEEE Transactions on Applied Superconductivity</i> , 2017, 27, 1-5.	1.7	2
83	Orbital-dependent band renormalization in $\text{CeNi}_0.8\text{Bi}_2$ : New Entrant in Superconductivity Kitchen?. <i>Physical Review B</i> , 2018, 98, .	3.2	2
84	Improving the Flux Pinning With Artificial BCO Nanodots and Correlated Dislocations in YBCO Films Grown on IBAD-MgO Based Template. <i>IEEE Transactions on Applied Superconductivity</i> , 2019, 29, 1-5.	1.7	2
85	Synthesis and Superconductivity of CeNi <sub>0.8</sub> Bi <sub>2</sub> : New Entrant in Superconductivity Kitchen?. <i>Journal of Superconductivity and Novel Magnetism</i> , 2012, 25, 723-724.	1.8	1
86	Study of transport and magnetic properties in new Bi <sub>2</sub> based layered La <sub>0.5</sub> F <sub>0.5</sub> Bi <sub>2</sub> superconductor. , 2013, , .		1
87	Electronic structure of rare-earth doped SrFBiS <sub>2</sub> superconductors from photoemission spectroscopic studies. <i>Physica C: Superconductivity and Its Applications</i> , 2016, 525-526, 89-93.	1.2	1
88	Effect of Hydrostatic Pressure on BiS <sub>2</sub> -Based Layered Superconductors: A Review. <i>Novel Superconducting Materials</i> , 2016, 2, .	0.8	1
89	Surface Electronic States and Inclining Surfaces in MoTe <sub>2</sub> Probed by Photoemission Spectromicroscopy. <i>Journal of the Physical Society of Japan</i> , 2021, 90, 084704.	1.6	1
90	Superconductivity and ferromagnetism in the non-oxide perovskite MgCNi <sub>3</sub> . , 2012, , .		0

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91	Bulk superconductivity at 5K in NdO <sub>0.5</sub> F <sub>0.5</sub> BiS <sub>2</sub> . , 2013, , . Magnetically Defined &lt;math>\text{B}_{\text{irr}}</math> &lt;math>\text{B}_{\text{c2}}</math> and &lt;math>\text{B}_{\text{CeO}}</math> in &lt;math>\text{BaCeO}_3</math>-Doped &lt;math>\text{YBa}_2\text{Cu}_3\text{O}_{6+x}</math> Thin Film. IEEE Transactions on Applied Superconductivity,	0	0
92		1.7	0
93	Violation of Kohler's rule in Ta <sub>2</sub> PdTe <sub>6</sub> and absence of same in Nb <sub>2</sub> PdS <sub>5</sub> : A high field magneto transport study. AIP Conference Proceedings, 2016, , . <sup>20</sup>	0.4	0
94	Pressure effects on topological crystalline insulator SnTe and derived superconductor Sn0.5In0.5Te. AIP Conference Proceedings, 2016, , .	0.4	0
95	Effect of Indium doping on the superconductivity of layered oxychalcogenide La <sub>2</sub> O <sub>2</sub> Bi <sub>3</sub> Ag <sub>1-x</sub> In <sub>x</sub> S <sub>6</sub> . Journal of Physics: Conference Series, 2019, 1293, 012001.	0.4	0