

Jianping Sun

List of Publications by Year in descending order

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papers

1,479
citations

471509

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all docs

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docs citations

59
times ranked

1838
citing authors

#	ARTICLE	IF	CITATIONS
1	Dome Superconducting Dome and Triple Enhancement of T_c in the Kagome Superconductor CsV_3Sb_5 . Physical Review Letters, 2021, 126, 247001.	7.8	240
2	Dome-shaped magnetic order competing with high-temperature superconductivity at high pressures in FeSe. Nature Communications, 2016, 7, 12146.	12.8	210
3	Pressure Induced Superconductivity on the border of Magnetic Order in MnP. Physical Review Letters, 2015, 114, 117001.	7.8	153
4	Anisotropic Superconducting Properties of Kagome Metal CsV_3Sb_5 . Chinese Physics Letters, 2021, 38, 057403.	3.3	91
5	High- T_c Superconductivity in FeSe at High Pressure: Dominant Hole Carriers and Enhanced Spin Fluctuations. Physical Review Letters, 2017, 118, 147004.	7.8	64
6	Superconductivity of Lanthanum Superhydride Investigated Using the Standard Four-Probe Configuration under High Pressures*. Chinese Physics Letters, 2020, 37, 107401.	3.3	61
7	Reemergence of high- T_c superconductivity in the $(Li_{1-x}Fe_x)OHFe_{1-y}Se$ under high pressure. Nature Communications, 2018, 9, 380.	12.8	60
8	Bipolar Conduction as the Possible Origin of the Electronic Transition in Pentatellurides: Metallic vs Semiconducting Behavior. Physical Review X, 2018, 8, .	8.9	55
9	Competition between charge-density-wave and superconductivity in the kagome metal RbV_3Sb_5 . Physical Review Research, 2021, 3, .	3.6	50
10	Pressure-induced phase transitions and superconductivity in a black phosphorus single crystal. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 9935-9940.	7.1	47
11	High- T_c superconductivity up to 55 K under high pressure in a heavily electron doped $Li_{0.36}(NH_3)_yFe_2Se_2$ single crystal. Physical Review B, 2018, 97, .	3.2	44
12	Pressure-induced phase transitions and superconductivity in a quasi-1-dimensional topological crystalline insulator $\pm Bi_4Br_4$. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 17696-17700.	7.1	36
13	Heavy fermion behavior in the quasi-one-dimensional Kondo lattice $CeCo_2Ga_8$. Npj Quantum Materials, 2017, 2, .	5.2	27
14	Possible superconductivity at ~ 470 K in tin hydride SnH_x under high pressure. Materials Today Physics, 2022, 22, 100596.	6.0	27
15	Pressure-Induced Superconductivity up to 9 K in the Quasi-One-Dimensional KMn_6O_{23} . Physical Review Letters, 2022, 128, 187001.	7.8	23
16	Evolution of Magnetic Double Helix and Quantum Criticality near a Dome of Superconductivity in CrAs. Physical Review X, 2018, 8, .	8.9	20
17	Ionic-Liquid-Gating Induced Protonation and Superconductivity in FeSe, $FeSe_{0.93}S_{0.07}$, ZrNCl, $1T-TaS_2$ and Bi_2Se_3 . Chinese Physics Letters, 2019, 36, 077401.	3.3	20
18	Metal-to-metal transition and heavy-electron state in Nd_4O_{10} . Physical Review B, 2020, 101, .	3.2	16

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19	Pressure-induced enhancement of superconductivity and quantum criticality in the 12442-type hybrid-structure superconductor $KCa_2Fe_4As_4F_2$. <i>Physical Review B</i> , 2019, 99, . Evidence for pressure-induced node-pair annihilation in $Cd_{1-x}Fe_xTe$. <i>Physical Review B</i> , 2021, 103, .	3.2	15
20	Pressure-induced enhancement of superconductivity in $Cd_{1-x}Fe_xTe$. <i>Physical Review B</i> , 2021, 103, .	3.2	14
21	Physi Cubic anvil cell apparatus for high-pressure and low-temperature physical property measurements. <i>Chinese Physics B</i> , 2018, 27, 077403.	1.4	12
22	Pressure effect on the anomalous Hall effect of ferromagnetic Weyl semimetal $Co_3Sn_2S_2$. <i>Physical Review Materials</i> , 2020, 4, .	2.4	12
23	Interplay between Charge-Density-Wave, Superconductivity, and Ferromagnetism in $Cu_{1-x}Cr_xTe_{2-4x}$ Chalcogenides. <i>Journal of Physical Chemistry Letters</i> , 2022, 13, 2442-2451.	4.6	12
24	A low-T c superconducting modification of Th_4H_{15} synthesized under high pressure. <i>Superconductor Science and Technology</i> , 2021, 34, 034006.	3.5	11
25	Effects of disorder and hydrostatic pressure on charge density wave and superconductivity in $HgCr_{1-x}Mn_x$. <i>Physical Review B</i> , 2021, 103, .	3.2	11
26	Pressured-induced superconducting phase with large upper critical field and concomitant enhancement of antiferromagnetic transition in $EuTe_2$. <i>Nature Communications</i> , 2022, 13, .	12.8	11
27	Superconducting phase diagrams of S-doped $Hg_{1-x}Se_x$ under hydrostatic pressure. <i>Physical Review B</i> , 2020, 102, .	3.2	10
28	Hydrostatic pressure effects on the static magnetism in $Eu(Fe_{0.925}Co_{0.075})_2As_2$. <i>Scientific Reports</i> , 2017, 7, 3532.	3.3	9
29	Magnetic-Competition-induced Colossal Magnetoresistance in $HgCr_{1-x}Mn_x$ under High Pressure. <i>Physical Review Letters</i> , 2019, 123, 047201.	7.8	9
30	Pressure-Induced Metallization and Structural Phase Transition in the Quasi-One-Dimensional $TlFeSe_2$. <i>Chinese Physics Letters</i> , 2020, 37, 047102.	3.3	9
31	Effect of hydrostatic pressure on the superconducting properties of quasi-1D superconductor $K_2Cr_3As_3$. <i>Journal of Physics Condensed Matter</i> , 2017, 29, 455603. Competition of superconductivity with the structural transition in Mn_3O_7 . <i>Physical Review Materials</i> , 2022, 6, .	1.8	8
32	Pressure-induced enhancement of thermoelectric power factor in pristine and hole-doped $SnSe$ crystals. <i>RSC Advances</i> , 2019, 9, 26831-26837.	3.2	7
33	Anomalous charge density wave state evolution and dome-like superconductivity in $Cu_{1-x}Te_{4x}Se_x$ chalcogenides. <i>Superconductor Science and Technology</i> , 2021, 34, 115003.	3.6	7
34	Pressure-driven superconducting dome in the vicinity of CDW in the pyrite-type superconductor Cu_2S_2 . <i>Physical Review Materials</i> , 2022, 6, . Collapsed tetragonal phase as a strongly covalent and fully nonmagnetic state: Persistent magnetism with interlayer As-As bond formation in Rh-doped CaO_8S .	2.4	7
35	Pressure-driven superconducting dome in the vicinity of CDW in the pyrite-type superconductor Cu_2S_2 . <i>Physical Review Materials</i> , 2022, 6, . Collapsed tetragonal phase as a strongly covalent and fully nonmagnetic state: Persistent magnetism with interlayer As-As bond formation in Rh-doped CaO_8S .	3.2	6
36	Pressure-driven superconducting dome in the vicinity of CDW in the pyrite-type superconductor Cu_2S_2 . <i>Physical Review Materials</i> , 2022, 6, . Collapsed tetragonal phase as a strongly covalent and fully nonmagnetic state: Persistent magnetism with interlayer As-As bond formation in Rh-doped CaO_8S .	3.2	6

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37	Pressure-induced second high-T _c superconducting phase in the organic-ion-intercalated (CTA) _{0.3} FeSe single crystal. <i>Europhysics Letters</i> , 2020, 130, 67004.	2.0	6
38	A density-wave-like transition in the polycrystalline V ₃ Sb ₂ sample with bilayer kagome lattice. <i>Chinese Physics B</i> , 2022, 31, 017106.	1.4	6
39	Effect of chemical and hydrostatic pressure on the cubic pyrochlore Cd ₂ Ru ₂ O ₇ . <i>Physical Review B</i> , 2018, 98, .	3.2	5
40	Asymmetric ferromagnetic criticality in pyrochlore ferromagnet Lu ₂ V ₂ O ₇ . <i>Science Bulletin</i> , 2019, 64, 1222-1227.	9.0	5
41	Coupled magnetic and structural phase transitions in the antiferromagnetic polar metal PbO_6 under pressure. <i>Physical Review B</i> , 2020, 102, .	3.2	5
42	Superconducting dome associated with the suppression and re-emergence of charge density wave states upon sulfur substitution in Cu _{1-x} Te ₄ chalcogenides. <i>Journal of Physics Condensed Matter</i> , 2022, 34, 205602.	1.8	4
43	Pressure effect on spin-driven multiferroicity in a Y-type hexaferrite. <i>Journal of Materials Chemistry C</i> , 2019, 7, 4173-4177.	5.5	3
44	Insight into long-period pattern by depth sectioning using aberration-corrected scanning transmission electron microscope. <i>Ultramicroscopy</i> , 2020, 209, 112885.	1.9	3
45	Giant pressure-enhancement of multiferroicity in CuBr_2 . <i>Physical Review Research</i> , 2020, 2, .	1.6	3
46	Superconducting phase diagram and the evolution of electronic structure across charge density wave in underdoped TiAs under hydrostatic pressure. <i>Physical Review B</i> , 2021, 104, .	3.2	3
47	Effect of pressure on the self-hole-doped superconductor RbGd ₂ Fe ₄ As ₄ O ₂ . <i>Journal of Physics Condensed Matter</i> , 2019, 31, 044001.	1.8	2
48	Pressure effect on the magnetoresistivity of topological semimetal RhSn. <i>Journal of Physics Condensed Matter</i> , 2020, 32, 355601.	1.8	2
49	Physical properties and pressure-induced superconductivity in the single-crystalline band insulator SnO. <i>Physical Review B</i> , 2020, 101, .	3.2	2
50	Effect of high pressure on intercalated FeSe high-T _c superconductors. <i>Wuli Xuebao/Acta Physica Sinica</i> , 2018, 67, 207404.	0.5	2
51	High-pressure phase of CrS_2 : A new quasi-one-dimensional itinerant magnet with competing interactions. <i>Physical Review Materials</i> , 2019, 3, .	2.4	2
52	Pressure effect in the antiperovskite phosphide superconductor Sr_2P . <i>Physical Review B</i> , 2022, 105, .	1.2	2
53	Recent progress on the high-pressure studies of FeSe single crystal. <i>Chinese Science Bulletin</i> , 2017, 62, 3925-3934.	0.7	1
54	Pressure-Induced Charge-Order Melting and Reentrant Charge Carrier Localization in the Mixed-Valent $\text{Pb}_3\text{Rh}_7\text{O}_{15}$. <i>Chinese Physics Letters</i> , 2017, 34, 087201.	3.3	0

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55	Pressure effects on the FeSe-based superconductors. <i>Scientia Sinica: Physica, Mechanica Et Astronomica</i> , 2021, 51, 047403.	0.4	0
56	Critical behavior and effect of Sr substitution in double perovskite $\text{Ca}_2\text{CrSbO}_6$ *. <i>Chinese Physics B</i> , 2021, 30, 037501.	1.4	0
57	Effect of Pb doping on metallic state of cubic pyrochlore $\text{Cd}_2\text{Ru}_2\text{O}_7$. <i>Wuli Xuebao/Acta Physica Sinica</i> , 2018, 67, 127402.	0.5	0