

Fei Han

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

63

papers

1,682

citations

20

h-index

40

g-index

76

ext. papers

1,969

ext. citations

7

avg, IF

4.39

L-index

#	Paper	IF	Citations
63	Unconventional Hysteretic Transition in a Charge Density Wave.. <i>Physical Review Letters</i> , 2022 , 128, 036401	40.1	1
62	Acid-in-clay Electrolyte for Wide-temperature-range and Long-cycle proton Batteries.. <i>Advanced Materials</i> , 2022 , e2202063	24	4
61	Ultrasensitive Molecular Detection by Imaging of Centimeter-Scale Metasurfaces with a Deterministic Gradient Geometry. <i>Advanced Materials</i> , 2021 , 33, e2100270	24	3
60	Thermal degradation behavior of self-assembled monolayer surfactant on silicon substrate. <i>Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics</i> , 2020 , 38, 032602	1.3	8
59	Topological Singularity Induced Chiral Kohn Anomaly in a Weyl Semimetal. <i>Physical Review Letters</i> , 2020 , 124, 236401	7.4	10
58	Anomalous phonon-mode dependence in polarized Raman spectroscopy of the topological Weyl semimetal TaP. <i>Physical Review B</i> , 2020 , 101,	3.3	3
57	Large nonreciprocal absorption and emission of radiation in type-I Weyl semimetals with time reversal symmetry breaking. <i>Physical Review B</i> , 2020 , 101,	3.3	32
56	Anisotropic Fano resonance in the Weyl semimetal candidate LaAlSi. <i>Physical Review B</i> , 2020 , 102,	3.3	6
55	Quantized thermoelectric Hall effect induces giant power factor in a topological semimetal. <i>Nature Communications</i> , 2020 , 11, 6167	17.4	17
54	Thicker carbon-nanotube/manganese-oxide hybridized nanostructures as electrodes for the creation of fiber-shaped high-energy-density supercapacitors. <i>Carbon</i> , 2019 , 154, 169-177	10.4	20
53	Orbital-flop Induced Magnetoresistance Anisotropy in Rare Earth Monopnictide CeSb. <i>Nature Communications</i> , 2019 , 10, 2875	17.4	8
52	Enormous electron-electron scattering in the filled-cage cubic compound Ba ₁₀ Ti ₂₄ Bi ₃₉ . <i>Physical Review Materials</i> , 2019 , 3,	3.2	1
51	Magnetization-governed magnetoresistance anisotropy in the topological semimetal CeBi. <i>Physical Review B</i> , 2019 , 100,	3.3	3
50	A Hidden Dimension to Explore New Thermoelectrics. <i>Joule</i> , 2018 , 2, 16-18	27.8	1
49	AgSe to KAgSe: Suppressing Order-Disorder Transitions via Reduced Dimensionality. <i>Journal of the American Chemical Society</i> , 2018 , 140, 9193-9202	16.4	7
48	Doping effects of Cr on the physical properties of BaFe _{1.9} Ni _{0.1} CrxAs ₂ . <i>Physical Review B</i> , 2018 , 98,	3.3	3
47	Chain Breakage in the Supercooled Liquid - Liquid Transition and Re-entry of the Transition in Sulfur. <i>Scientific Reports</i> , 2018 , 8, 4558	4.9	9

46	Facile synthesis of silk-cocoon S-rich cobalt polysulfide as an efficient catalyst for the hydrogen evolution reaction. <i>Energy and Environmental Science</i> , 2018 , 11, 2467-2475	35.4	59
45	Emergent superconductivity in an iron-based honeycomb lattice initiated by pressure-driven spin-crossover. <i>Nature Communications</i> , 2018 , 9, 1914	17.4	59
44	Charge Density Wave in the New Polymorphs of RERuGe (RE = Pr, Sm, Dy). <i>Journal of the American Chemical Society</i> , 2017 , 139, 4130-4143	16.4	19
43	Semiconducting BaSnSb and Metallic BaSnSb ($x = 0.4, y = 0.6$) Zintl Phases. <i>Inorganic Chemistry</i> , 2017 , 56, 14251-14259	5.1	2
42	Template-free formation of carbon nanotube-supported cobalt sulfide@carbon hollow nanoparticles for stable and fast sodium ion storage. <i>Journal of Power Sources</i> , 2017 , 339, 41-50	8.9	60
41	Pressure-Driven Cooperative Spin-Crossover, Large-Volume Collapse, and Semiconductor-to-Metal Transition in Manganese(II) Honeycomb Lattices. <i>Journal of the American Chemical Society</i> , 2016 , 138, 15751-15757	16.4	50
40	La(1-x)Bi(1+x)S ₃ (x = 0.08): An n-Type Semiconductor. <i>Inorganic Chemistry</i> , 2016 , 55, 3547-52	5.1	6
39	Synthesis, Structure, and Complex Magnetism of M _{1r} 2In ₈ (M = Eu, Sr). <i>Inorganic Chemistry</i> , 2016 , 55, 3128-35	7	
38	Mixed-Valent NaCu ₄ Se ₃ : A Two-Dimensional Metal. <i>Inorganic Chemistry</i> , 2016 , 55, 4884-90	5.1	12
37	TlHgInS ₃ : An Indirect-Band-Gap Semiconductor with X-ray Photoconductivity Response. <i>Chemistry of Materials</i> , 2015 , 27, 5417-5424	9.6	11
36	(CaO)(FeSe): A Layered Wide-Gap Oxychalcogenide Semiconductor. <i>Chemistry of Materials</i> , 2015 , 27, 5695-5701	9.6	10
35	Structural and Magnetic Phase Transitions near Optimal Superconductivity in BaFe ₂ (As(1-x)Px) ₂ . <i>Physical Review Letters</i> , 2015 , 114, 157002	7.4	42
34	Tuning the Magnetic Properties of New Layered Iron Chalcogenides (BaF) ₂ Fe ₂ Q ₃ (Q = S, Se) by Changing the Defect Concentration on the Iron Sublattice. <i>Chemistry of Materials</i> , 2015 , 27, 3280-3290	9.6	23
33	Synthesis, Structure, and Rigid Unit Mode-like Anisotropic Thermal Expansion of Ba _{1r} 2In ₉ . <i>Inorganic Chemistry</i> , 2015 , 54, 8794-9	5.1	7
32	Antiferromagnetic Kondo lattice in the layered compound CePd _{1-x} Bi ₂ and comparison to the superconductor LaPd _{1-x} Bi ₂ . <i>Physical Review B</i> , 2015 , 92,	3.3	10
31	New Insulating Antiferromagnetic Quaternary Iridates MLa ₁₀ Ir ₄ O ₂₄ (M = Sr, Ba). <i>Scientific Reports</i> , 2015 , 5, 11705	4.9	1
30	Flux Crystal Growth of the Ternary Polygermanide LaPtGe ₂ , a p-Type Metal. <i>European Journal of Inorganic Chemistry</i> , 2015 , 2015, 2164-2172	2.3	5
29	Crystal Growth, Structures, and Properties of the Complex Borides, LaOs ₂ Al ₂ B and La ₂ Os ₂ Al ₂ B ₂ . <i>Inorganic Chemistry</i> , 2015 , 54, 8049-57	5.1	5

28	Superconductivity in the intermetallic pnictide compound $\text{Ca}_{11}\text{Bi}_{10}\text{As}_8$. <i>Physical Review B</i> , 2014 , 89,	3.3	12
27	Magnetism and superconductivity in $\text{Sr}_2\text{VFeAsO}_3$ revealed by ^{75}As - and ^{51}V -NMR under elevated pressures. <i>Physical Review B</i> , 2014 , 89,	3.3	10
26	NaCu_6Se_4 : a layered compound with mixed valency and metallic properties. <i>Inorganic Chemistry</i> , 2014 , 53, 12191-8	5.1	17
25	Hole doping by pressure on the 1111 pnictides CaFeAsF and SrFeAsF . <i>Journal of Physics Condensed Matter</i> , 2014 , 26, 155702	1.8	6
24	Doping effect of Cu and Ni impurities on the Fe-based superconductor $\text{Ba}_{0.6}\text{K}_{0.4}\text{Fe}_2\text{As}_2$. <i>Europhysics Letters</i> , 2013 , 104, 37007	1.6	12
23	$\text{NaBa}_2\text{Cu}_3\text{S}_5$: a doped p-type degenerate semiconductor. <i>Inorganic Chemistry</i> , 2013 , 52, 7210-7	5.1	12
22	Superconductivity and strong intrinsic defects in $\text{LaPd}_{1-x}\text{Bi}_x$. <i>Physical Review B</i> , 2013 , 88,	3.3	25
21	$\text{BaFe}_2\text{Se}_2\text{O}$ as an iron-based Mott insulator with antiferromagnetic order. <i>Physical Review B</i> , 2012 , 86,	3.3	21
20	Metastable superconducting state in quenched $\text{K}_x\text{Fe}_{2-y}\text{Se}_2$. <i>Philosophical Magazine</i> , 2012 , 92, 2553-2562	6.2	34
19	Transport properties and asymmetric scattering in $\text{Ba}_{1-x}\text{K}_x\text{Fe}_2\text{As}_2$ single crystals. <i>Physical Review B</i> , 2011 , 84,	3.3	67
18	Absence of superconductivity in LiCu_2P_2 . <i>Journal of the American Chemical Society</i> , 2011 , 133, 1751-3	16.4	8
17	Transport properties and anisotropy of $\text{Rb}_{1-x}\text{Fe}_x\text{Se}_2$ single crystals. <i>Physical Review B</i> , 2011 , 83,	3.3	94
16	Static magnetic order of $\text{Sr}_4\text{A}_2\text{O}_6\text{Fe}_2\text{As}_2$ (A = Sc and V) revealed by Mössbauer and muon spin relaxation spectroscopies. <i>Physical Review B</i> , 2011 , 84,	3.3	16
15	Anomalous properties in the normal and superconducting states of LaRu_3Si_2 . <i>Physical Review B</i> , 2011 , 84,	3.3	10
14	Direct observation of the influence of the FeAs_4 tetrahedron on superconductivity and antiferromagnetic correlations in $\text{Sr}_2\text{VO}_3\text{FeAs}$. <i>Europhysics Letters</i> , 2011 , 96, 57002	1.6	9
13	Superconductivity induced by doping platinum in BaFe_2As_2 . <i>Physical Review B</i> , 2010 , 81,	3.3	24
12	Superconductivity at 15.6 K in calcium-doped $\text{Tb}_{1-x}\text{Ca}_x\text{FeAsO}$: The structure requirement for achieving superconductivity in the hole-doped 1111 phase. <i>Europhysics Letters</i> , 2010 , 89, 27002	1.6	8
11	Structural and transport properties of $\text{Sr}_2\text{VO}_3\text{FeAs}$ superconductors with different oxygen deficiencies. <i>Science China: Physics, Mechanics and Astronomy</i> , 2010 , 53, 1202-1206	3.6	18

10	Physical properties of the new superconducting system Sr ₂ VO ₃ FeAs (21311). <i>Physica C: Superconductivity and Its Applications</i> , 2010 , 470, S263-S266	1.3	2
9	Superconductivity and phase diagrams of the 4d- and 5d-metal-doped iron arsenides SrFe ₂ MxAs ₂ (M=Rh,Ir,Pd). <i>Physical Review B</i> , 2009 , 80,	3.3	102
8	Synthesis, structural, and transport properties of the hole-doped superconductor Pr _{1-x} SrxFeAsO. <i>Physical Review B</i> , 2009 , 79,	3.3	31
7	High-T _c superconductivity induced by doping rare-earth elements into CaFeAsF. <i>Europhysics Letters</i> , 2009 , 85, 67003	1.6	73
6	Superconductivity in fluoride-arsenide Sr _{1-x} La _x FeAsF compounds. <i>Europhysics Letters</i> , 2009 , 85, 17011.6	1.6	53
5	Parent phase and superconductors in the fluorine derivative family. <i>Physica C: Superconductivity and Its Applications</i> , 2009 , 469, 381-384	1.3	15
4	Superconductivity in Ti-doped iron-arsenide compound Sr ₄ Cr _{0.8} Ti _{1.2} O ₆ Fe ₂ As ₂ 2009 , 52, 1876-1878		7
3	Sr ₃ Sc ₂ Fe ₂ As ₂ O ₅ as a possible parent compound for FeAs-based superconductors. <i>Physical Review B</i> , 2009 , 79,	3.3	124
2	Transition of stoichiometric Sr ₂ VO ₃ FeAs to a superconducting state at 37.2 K. <i>Physical Review B</i> , 2009 , 79,	3.3	267
1	SrFeAsF as a parent compound for iron pnictide superconductors. <i>Physical Review B</i> , 2008 , 78,	3.3	79