

Fei Han

List of Publications by Year in descending order

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65
papers

2,216
citations

293460

24
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263392

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g-index

76
all docs

76
docs citations

76
times ranked

3044
citing authors

#	ARTICLE	IF	CITATIONS
1	Unconventional Hysteretic Transition in a Charge Density Wave. <i>Physical Review Letters</i> , 2022, 128, 036401.	2.9	14
2	Acid-Induced Clay Electrolyte for Wide-Temperature-Range and Long-Cycle Proton Batteries. <i>Advanced Materials</i> , 2022, 34, e2202063.	11.1	16
3	Ultrasensitive Molecular Detection by Imaging of Centimeter-Scale Metasurfaces with a Deterministic Gradient Geometry. <i>Advanced Materials</i> , 2021, 33, e2100270.	11.1	15
4	Extended Kohler's Rule of Magnetoresistance. <i>Physical Review X</i> , 2021, 11, .	2.8	16
5	Quantized thermoelectric Hall effect induces giant power factor in a topological semimetal. <i>Nature Communications</i> , 2020, 11, 6167.	5.8	43
6	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, .	0.6	12
7	Topological Singularity Induced Chiral Kohn Anomaly in a Weyl Semimetal. <i>Physical Review Letters</i> , 2020, 124, 236401.	2.9	27
8	Anomalous phonon-mode dependence in polarized Raman spectroscopy of the topological Weyl semimetal TaP. <i>Physical Review B</i> , 2020, 101, .	1.1	8
9	Large nonreciprocal absorption and emission of radiation in type-I Weyl semimetals with time reversal symmetry breaking. <i>Physical Review B</i> , 2020, 101, .	1.1	84
10	Anisotropic Fano resonance in the Weyl semimetal candidate LaAlSi. <i>Physical Review B</i> , 2020, 102, .	1.1	16
11	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.	5.4	32
12	Orbital-flop Induced Magnetoresistance Anisotropy in Rare Earth Monopnictide CeSb. <i>Nature Communications</i> , 2019, 10, 2875.	5.8	17
13	Kinoform lenses for high photon energies. <i>AIP Conference Proceedings</i> , 2019, , .	0.3	0
14	Magnetization-governed magnetoresistance anisotropy in the topological semimetal CeBi. <i>Physical Review B</i> , 2019, 100, .	1.1	10
15	Extrinsic spin-orbit electron scattering in the filled-cage cubic compound $B_{10}T_2$	0.9	3
16	A Hidden Dimension to Explore New Thermoelectrics. <i>Joule</i> , 2018, 2, 16-18.	11.7	4
17	Emergent superconductivity in an iron-based honeycomb lattice initiated by pressure-driven spin-crossover. <i>Nature Communications</i> , 2018, 9, 1914.	5.8	119
18	Ag_2Se to KAg_3Se_2 : Suppressing Order-Disorder Transitions via Reduced Dimensionality. <i>Journal of the American Chemical Society</i> , 2018, 140, 9193-9202.	6.6	14

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19	Doping effects of Cr on the physical properties of $\text{BaFe}_{1-x}\text{Co}_x\text{As}_2$. Physical Review B, 2018, 98, .		
20	Chain Breakage in the Supercooled Liquid - Liquid Transition and Re-entry of the λ -transition in Sulfur. Scientific Reports, 2018, 8, 4558.	1.6	19
21	Facile synthesis of silk-cocoon S-rich cobalt polysulfide as an efficient catalyst for the hydrogen evolution reaction. Energy and Environmental Science, 2018, 11, 2467-2475.	15.6	91
22	Charge Density Wave in the New Polymorphs of $\text{RE}_2\text{Ru}_3\text{Ge}_5$ ($\text{RE} = \text{Pr}, \text{Sm}, \text{Dy}$). Journal of the American Chemical Society, 2017, 139, 4130-4143.	6.6	33
23	Semiconducting $\text{Ba}_3\text{Sn}_3\text{Sb}_4$ and Metallic $\text{Ba}_7\text{Sn}_{11}\text{Sb}_{15}$ ($x = 0.4, y = 0.6$) Zintl Phases. Inorganic Chemistry, 2017, 56, 14251-14259.	1.9	3
24	Template-free formation of carbon nanotube-supported cobalt sulfide@carbon hollow nanoparticles for stable and fast sodium ion storage. Journal of Power Sources, 2017, 339, 41-50.	4.0	69
25	Mixed-Valent NaCu_4Se_3 : A Two-Dimensional Metal. Inorganic Chemistry, 2016, 55, 4884-4890.	1.9	17
26	Pressure-Driven Cooperative Spin-Crossover, Large-Volume Collapse, and Semiconductor-to-Metal Transition in Manganese(II) Honeycomb Lattices. Journal of the American Chemical Society, 2016, 138, 15751-15757.	6.6	91
27	LaBiS_3 ($x \approx 0.08$): An n-Type Semiconductor. Inorganic Chemistry, 2016, 55, 3547-3552.	1.9	7
28	Synthesis, Structure, and Complex Magnetism of MIn_2In_8 ($M = \text{Eu}, \text{Sr}$). Inorganic Chemistry, 2016, 55, 3128-3135.	1.9	14
29	Antiferromagnetic Kondo lattice in the layered compound CePdBi and comparison to the superconductor $\text{Bi}_2\text{Sr}_2\text{CuO}_8$. Physical Review B, 2015, 92, 041111.	1.1	12
30	New Insulating Antiferromagnetic Quaternary Iridates $\text{MLa}_{10}\text{Ir}_4\text{O}_{24}$ ($M = \text{Sr}, \text{Ba}$). Scientific Reports, 2015, 5, 11705.	1.6	2
31	Flux Crystal Growth of the Ternary Polygermanide LaPtGe_2 , a p-Type Metal. European Journal of Inorganic Chemistry, 2015, 2015, 2164-2172.	1.0	10
32	Crystal Growth, Structures, and Properties of the Complex Borides, $\text{LaOs}_2\text{Al}_2\text{B}$ and $\text{LaOs}_2\text{Al}_2\text{B}$. Inorganic Chemistry, 2015, 54, 8049-8057.	1.9	7
33	TlHgInS_3 : An Indirect-Band-Gap Semiconductor with X-ray Photoconductivity Response. Chemistry of Materials, 2015, 27, 5417-5424.	3.2	17
34	$(\text{CaO})(\text{FeSe})$: A Layered Wide-Gap Oxychalcogenide Semiconductor. Chemistry of Materials, 2015, 27, 5695-5701.	3.2	12
35	Structural and Magnetic Phase Transitions near Optimal Superconductivity in $\text{BaFe}_{1-x}\text{Co}_x\text{As}_2$.		

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37	Synthesis, Structure, and Rigid Unit Mode-like Anisotropic Thermal Expansion of Ba ₂ In ₉ . Inorganic Chemistry, 2015, 54, 8794-8799.	1.9	8
38	Magnetism and superconductivity in Sr ₂ VFeAsO ₃ revealed by ⁷⁵ As- and ⁵¹ V-NMR under elevated pressures. Physical Review B, 2014, 89, .	1.1	13
39	NaCu ₆ Se ₄ : A Layered Compound with Mixed Valency and Metallic Properties. Inorganic Chemistry, 2014, 53, 12191-12198.	1.9	21
40	Hole doping by pressure on the 1111 pnictides CaFeAsF and SrFeAsF. Journal of Physics Condensed Matter, 2014, 26, 155702.	0.7	6
41	Superconductivity in the intermetallic pnictide compound $\text{Ca}_{11}\text{Pn}_2\text{As}_{10}\text{O}_{20}$. Physical Review B, 2014, 89, .	1.1	16
42	Doping effect of Cu and Ni impurities on the Fe-based superconductor Ba _{0.6} K _{0.4} Fe ₂ As ₂ . Europhysics Letters, 2013, 104, 37007.	0.7	13
43	NaBa ₂ Cu ₃ S ₅ : A Doped p-Type Degenerate Semiconductor. Inorganic Chemistry, 2013, 52, 7210-7217.	1.9	16
44	Superconductivity and strong intrinsic defects in LaPd ₁ Bi ₁ . Physical Review B, 2013, 88, .	1.1	25
45	Se ₂ O as an iron-based Mott insulator with antiferromagnetic order. Physical Review B, 2012, 86, .	1.1	25
46	Metastable superconducting state in quenched K _x Fe ₂ Se ₂ . Philosophical Magazine, 2012, 92, 2553-2562.	0.7	34
47	Properties and asymmetric scattering in BaK _x Fe ₂ . Physical Review B, 2011, 84, .	1.1	69
48	Absence of Superconductivity in LiCu ₂ P ₂ . Journal of the American Chemical Society, 2011, 133, 1751-1753.	6.6	10
49	Transport properties and anisotropy of Rb _{1-x} K _x Fe ₂ . Physical Review B, 2011, 84, .	1.1	17
50	Static magnetic order of Sr ₄ Fe ₂ A ₂ . Physical Review B, 2011, 84, .	1.1	17
51	Anomalous properties in the normal and superconducting states of La ₃ Fe ₃ Si ₃ . Physical Review B, 2011, 84, .	1.1	25
52	Direct observation of the influence of the FeAs ₄ tetrahedron on superconductivity and antiferromagnetic correlations in Sr ₂ VO ₃ FeAs. Europhysics Letters, 2011, 96, 57002.	0.7	10
53	Structural and transport properties of Sr ₂ VO _{3-δ} FeAs superconductors with different oxygen deficiencies. Science China: Physics, Mechanics and Astronomy, 2010, 53, 1202-1206.	2.0	19
54	Physical properties of the new superconducting system Sr ₂ VO _{3-δ} FeAs (21311). Physica C: Superconductivity and Its Applications, 2010, 470, S263-S266.	0.6	2

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55	Superconductivity induced by doping platinum in $\text{BaFe}_{2-x}\text{Pt}_x\text{As}_2$. Physical Review B, 2010, 81, .	1.1	27
56	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. Europhysics Letters, 2010, 89, 27002.	0.7	8
57	Activity and phase diagrams of the $\text{Ca}_{1-x}\text{Fe}_x\text{AsO}$ and $\text{Ca}_{1-x}\text{Fe}_x\text{AsO}$ -metal-doped $\text{Ca}_{1-x}\text{Fe}_x\text{AsO}$. Physical Review B, 2010, 81, .	1.1	110
58	Synthesis, structural, and transport properties of the hole-doped superconductor $\text{Pr}_{1-x}\text{Fe}_x\text{AsO}$. Physical Review B, 2009, 79, .	1.1	37
59	High-T _c superconductivity induced by doping rare-earth elements into CaFeAsF . Europhysics Letters, 2009, 85, 67003.	0.7	81
60	Superconductivity in fluoride-arsenide $\text{Sr}_{1-x}\text{La}_x\text{FeAsF}$ compounds. Europhysics Letters, 2009, 85, 17011.	0.7	56
61	Parent phase and superconductors in the fluorine derivative family. Physica C: Superconductivity and Its Applications, 2009, 469, 381-384.	0.6	17
62	Superconductivity in Ti-doped iron-arsenide compound $\text{Sr}_4\text{Cr}_{0.8}\text{Ti}_{1.2}\text{O}_6\text{Fe}_2\text{As}_2$. Science in China Series G: Physics, Mechanics and Astronomy, 2009, 52, 1876-1878.	0.2	7
63	$\text{Sr}_3\text{Sc}_2\text{Fe}_2\text{As}_2\text{O}_5$ as a possible parent compound for FeAs-based superconductors. Physical Review B, 2009, 79, .	1.1	128
64	Transition of stoichiometric Sr_2FeAs_2 to a superconducting state at 37.2 K. Physical Review B, 2009, 79, .	1.1	28
65	SrFeAsF as a parent compound for iron pnictide superconductors. Physical Review B, 2008, 78, .	1.1	81