

Han Hsu

List of Publications by Citations

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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.

29
papers

935
citations

16
h-index

30
g-index

30
ext. papers

1,031
ext. citations

4.1
avg, IF

4.3
L-index

#	Paper	IF	Citations
29	Spin-state crossover and hyperfine interactions of ferric iron in MgSiO ₃ perovskite. <i>Physical Review Letters</i> , 2011 , 106, 118501	7.4	121
28	Spin states and hyperfine interactions of iron in (Mg,Fe)SiO ₃ perovskite under pressure. <i>Earth and Planetary Science Letters</i> , 2010 , 294, 19-26	5.3	91
27	First-principles study for low-spin LaCoO ₃ with a structurally consistent Hubbard U. <i>Physical Review B</i> , 2009 , 79,	3.3	90
26	Selection rule for the optical absorption of graphene nanoribbons. <i>Physical Review B</i> , 2007 , 76,	3.3	79
25	Magnetic and noncentrosymmetric Weyl fermion semimetals in the RAlGe family of compounds (R=rareearth). <i>Physical Review B</i> , 2018 , 97,	3.3	74
24	Ferromagnetic insulating state in tensile-strained LaCoO ₃ thin films from LDA + U calculations. <i>Physical Review B</i> , 2012 , 85,	3.3	61
23	Floquet-Bloch states, quasienergy bands, and high-order harmonic generation for single-walled carbon nanotubes under intense laser fields. <i>Physical Review B</i> , 2006 , 74,	3.3	52
22	Thermoelasticity of Fe ²⁺ -bearing bridgmanite. <i>Geophysical Research Letters</i> , 2015 , 42, 1741-1749	4.9	47
21	Spin crossover of iron in aluminous MgSiO ₃ perovskite and post-perovskite. <i>Earth and Planetary Science Letters</i> , 2012 , 359-360, 34-39	5.3	47
20	Cobalt spin states and hyperfine interactions in LaCoO ₃ investigated by LDA+U calculations. <i>Physical Review B</i> , 2010 , 82,	3.3	40
19	Spin states and hyperfine interactions of iron incorporated in MgSiO ₃ post-perovskite. <i>Earth and Planetary Science Letters</i> , 2012 , 331-332, 1-7	5.3	34
18	Spin-State Crossover of Iron in Lower-Mantle Minerals: Results of DFT+U Investigations. <i>Reviews in Mineralogy and Geochemistry</i> , 2010 , 71, 169-199	7.1	30
17	First-principles study of intermediate-spin ferrous iron in the Earth's lower mantle. <i>Physical Review B</i> , 2014 , 90,	3.3	26
16	Effect of site degeneracies on the spin crossovers in (Mg, Fe)SiO ₃ perovskite. <i>Physics of the Earth and Planetary Interiors</i> , 2010 , 180, 209-214	2.3	26
15	The Hubbard U correction for iron-bearing minerals: A discussion based on (Mg,Fe)SiO ₃ perovskite. <i>Physics of the Earth and Planetary Interiors</i> , 2011 , 185, 13-19	2.3	21
14	Spin crossover and hyperfine interactions of iron in (Mg,Fe)CO ₃ ferromagnesite. <i>Physical Review B</i> , 2016 , 94,	3.3	17
13	First-principles studies of spin-state crossovers of iron in perovskite. <i>European Journal of Mineralogy</i> , 2012 , 24, 851-862	2.2	14

12	Modeling conduction in electron waveguides with finite-range impurities. <i>Physical Review B</i> , 2005 , 71,	3.3	13
11	First-principles study of iron spin crossover in the new hexagonal aluminous phase. <i>Physical Review B</i> , 2017 , 95,	3.3	11
10	Optical signatures of low spin Fe ³⁺ in NAL at high pressure. <i>Journal of Geophysical Research: Solid Earth</i> , 2017 , 122, 3565-3573	3.6	11
9	Modeling graphene layers and single-walled carbon nanotubes with regularized δ -function potentials. <i>Physical Review B</i> , 2005 , 72,	3.3	9
8	Largely Enhanced Ferromagnetism in Bare CuO Nanoparticles by a Small Size Effect. <i>ACS Omega</i> , 2020 , 5, 3849-3856	3.9	6
7	Simultaneous metal-half-metal and spin transition in SrCoO ₃ under compression. <i>Physical Review Materials</i> , 2018 , 2,	3.2	6
6	Strongly reduced band gap in NiMn ₂ O ₄ due to cation exchange. <i>Journal of Magnetism and Magnetic Materials</i> , 2014 , 358-359, 149-152	2.8	4
5	Anomalous thermal properties and spin crossover of ferromagnesite (Mg,Fe)CO ₃ . <i>Physical Review B</i> , 2021 , 103,	3.3	2
4	Direct Interplay between Superconductivity and Ferromagnetism in Fe _{1+y} (Te _{0.5} Se _{0.5}). <i>Journal of the Physical Society of Japan</i> , 2014 , 83, 074709	1.5	1
3	Development of a ferromagnetic component in the superconducting state of Fe-excess Fe _{1.12} Te _(1-x) Se _x by electronic charge redistribution. <i>Scientific Reports</i> , 2015 , 5, 10951	4.9	1
2	Thermal Conductivity and Compressional Velocity of Methane at High Pressure: Insights Into Thermal Transport Properties of Icy Planet Interiors. <i>Journal of Geophysical Research E: Planets</i> , 2022 , 127,	4.1	1
1	Structural transition and re-emergence of iron's total electron spin in (Mg,Fe)O at ultrahigh pressure.. <i>Nature Communications</i> , 2022 , 13, 2780	17.4	