

# Han Hsu

## 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.

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	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> , <b>2022</b> , 127,	4.1	1
28	Structural transition and re-emergence of iron's total electron spin in (Mg,Fe)O at ultrahigh pressure.. <i>Nature Communications</i> , <b>2022</b> , 13, 2780	17.4	
27	Anomalous thermal properties and spin crossover of ferromagnesite (Mg,Fe)CO <sub>3</sub> . <i>Physical Review B</i> , <b>2021</b> , 103,	3.3	2
26	Largely Enhanced Ferromagnetism in Bare CuO Nanoparticles by a Small Size Effect. <i>ACS Omega</i> , <b>2020</b> , 5, 3849-3856	3.9	6
25	Magnetic and noncentrosymmetric Weyl fermion semimetals in the RAlGe family of compounds (R=rareearth). <i>Physical Review B</i> , <b>2018</b> , 97,	3.3	74
24	Simultaneous metal-to-half-metal and spin transition in SrCoO <sub>3</sub> under compression. <i>Physical Review Materials</i> , <b>2018</b> , 2,	3.2	6
23	First-principles study of iron spin crossover in the new hexagonal aluminous phase. <i>Physical Review B</i> , <b>2017</b> , 95,	3.3	11
22	Optical signatures of low spin Fe <sup>3+</sup> in NAL at high pressure. <i>Journal of Geophysical Research: Solid Earth</i> , <b>2017</b> , 122, 3565-3573	3.6	11
21	Spin crossover and hyperfine interactions of iron in (Mg,Fe)CO <sub>3</sub> ferromagnesite. <i>Physical Review B</i> , <b>2016</b> , 94,	3.3	17
20	Development of a ferromagnetic component in the superconducting state of Fe-excess Fe <sub>1.12</sub> Te <sub>(1-x)</sub> Se <sub>x</sub> by electronic charge redistribution. <i>Scientific Reports</i> , <b>2015</b> , 5, 10951	4.9	1
19	Thermoelasticity of Fe <sup>2+</sup> -bearing bridgmanite. <i>Geophysical Research Letters</i> , <b>2015</b> , 42, 1741-1749	4.9	47
18	Direct Interplay between Superconductivity and Ferromagnetism in Fe <sub>1+y</sub> (Te <sub>0.5</sub> Se <sub>0.5</sub> ). <i>Journal of the Physical Society of Japan</i> , <b>2014</b> , 83, 074709	1.5	1
17	First-principles study of intermediate-spin ferrous iron in the Earth's lower mantle. <i>Physical Review B</i> , <b>2014</b> , 90,	3.3	26
16	Strongly reduced band gap in NiMn <sub>2</sub> O <sub>4</sub> due to cation exchange. <i>Journal of Magnetism and Magnetic Materials</i> , <b>2014</b> , 358-359, 149-152	2.8	4
15	Spin states and hyperfine interactions of iron incorporated in MgSiO <sub>3</sub> post-perovskite. <i>Earth and Planetary Science Letters</i> , <b>2012</b> , 331-332, 1-7	5.3	34
14	Spin crossover of iron in aluminous MgSiO <sub>3</sub> perovskite and post-perovskite. <i>Earth and Planetary Science Letters</i> , <b>2012</b> , 359-360, 34-39	5.3	47
13	First-principles studies of spin-state crossovers of iron in perovskite. <i>European Journal of Mineralogy</i> , <b>2012</b> , 24, 851-862	2.2	14

12	Ferromagnetic insulating state in tensile-strained LaCoO <sub>3</sub> thin films from LDA + U calculations. <i>Physical Review B</i> , <b>2012</b> , 85,	3-3	61
11	The Hubbard U correction for iron-bearing minerals: A discussion based on (Mg,Fe)SiO <sub>3</sub> perovskite. <i>Physics of the Earth and Planetary Interiors</i> , <b>2011</b> , 185, 13-19	2-3	21
10	Spin-state crossover and hyperfine interactions of ferric iron in MgSiO <sub>3</sub> perovskite. <i>Physical Review Letters</i> , <b>2011</b> , 106, 118501	7-4	121
9	Spin-State Crossover of Iron in Lower-Mantle Minerals: Results of DFT+U Investigations. <i>Reviews in Mineralogy and Geochemistry</i> , <b>2010</b> , 71, 169-199	7-1	30
8	Spin states and hyperfine interactions of iron in (Mg,Fe)SiO <sub>3</sub> perovskite under pressure. <i>Earth and Planetary Science Letters</i> , <b>2010</b> , 294, 19-26	5-3	91
7	Effect of site degeneracies on the spin crossovers in (Mg, Fe)SiO <sub>3</sub> perovskite. <i>Physics of the Earth and Planetary Interiors</i> , <b>2010</b> , 180, 209-214	2-3	26
6	Cobalt spin states and hyperfine interactions in LaCoO <sub>3</sub> investigated by LDA+U calculations. <i>Physical Review B</i> , <b>2010</b> , 82,	3-3	40
5	First-principles study for low-spin LaCoO <sub>3</sub> with a structurally consistent Hubbard U. <i>Physical Review B</i> , <b>2009</b> , 79,	3-3	90
4	Selection rule for the optical absorption of graphene nanoribbons. <i>Physical Review B</i> , <b>2007</b> , 76,	3-3	79
3	Floquet-Bloch states, quasienergy bands, and high-order harmonic generation for single-walled carbon nanotubes under intense laser fields. <i>Physical Review B</i> , <b>2006</b> , 74,	3-3	52
2	Modeling conduction in electron waveguides with finite-range impurities. <i>Physical Review B</i> , <b>2005</b> , 71,	3-3	13
1	Modeling graphene layers and single-walled carbon nanotubes with regularized $\delta$ -function potentials. <i>Physical Review B</i> , <b>2005</b> , 72,	3-3	9