

# Fazel Tafti

## List of Publications by Year in descending order

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papers

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516710

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32  
docs citations

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times ranked

1195  
citing authors

#	ARTICLE	IF	CITATIONS
1	Metastable Kitaev Magnets. <i>Molecules</i> , 2022, 27, 871.	3.8	6
2	First demonstration of tuning between the Kitaev and Ising limits in a honeycomb lattice. <i>Science Advances</i> , 2022, 8, eabl5671.	10.3	6
3	Pressure dependent magnetic properties on bulk CrBr <sub>3</sub> single crystals. <i>Journal of Alloys and Compounds</i> , 2022, 911, 165034.	5.5	5
4	Anisotropy of the magnetic and transport properties of $\text{EuZnAs}_2$ . <i>Physical Review B</i> , 2022, 105, .	3.2	9
5	Colossal Magnetoresistance without Mixed Valence in a Layered Phosphide Crystal. <i>Advanced Materials</i> , 2021, 33, e2005755.	21.0	29
6	Picoscale Magnetoelasticity Governs Heterogeneous Magnetic Domains in a Noncentrosymmetric Ferromagnetic Weyl Semimetal. <i>Advanced Quantum Technologies</i> , 2021, 4, 2000101.	3.9	14
7	Noncollinear ferromagnetic Weyl semimetal with anisotropic anomalous Hall effect. <i>Physical Review B</i> , 2021, 103, .	3.2	42
8	Effect of structural disorder on the Kitaev magnet $\text{Ag}_3\text{VO}_6$ . <i>Physical Review B</i> , 2021, 103, .	3.2	25
9	2D correlations in the van der Waals ferromagnet CrBr <sub>3</sub> using high frequency electron spin resonance spectroscopy. <i>Journal of Applied Physics</i> , 2021, 129, 233902.	2.5	7
10	NMR investigation on the honeycomb iridate Ag <sub>3</sub> Lir <sub>2</sub> O <sub>6</sub> . <i>Physical Review B</i> , 2021, 103, .	3.2	17
11	Antiferromagnetic Order and Spin-Canting Transition in the Corrugated Square Net Compound Cu <sub>3</sub> (TeO <sub>4</sub> )(SO <sub>4</sub> ) <sub>2</sub> ·H <sub>2</sub> O. <i>Inorganic Chemistry</i> , 2021, 60, 10565-10571.	4.0	3
12	Complex pressure-temperature structural phase diagram of the honeycomb iridate Cu <sub>2</sub> IrO <sub>3</sub> . <i>Physical Review B</i> , 2021, 104, .	3.2	12
13	Weyl-mediated helical magnetism in NdAlSi. <i>Nature Materials</i> , 2021, 20, 1650-1656.	27.5	48
14	Enhanced hybridization in the electronic ground state of the intercalated honeycomb iridate Ag <sub>3</sub> Lir <sub>2</sub> O <sub>6</sub> . <i>Physical Review B</i> , 2021, 104, .	3.2	11
15	Evidence of a coupled electron-phonon liquid in NbGe <sub>2</sub> . <i>Nature Communications</i> , 2021, 12, 5292.	12.8	8
16	ac Susceptometry of 2D van der Waals Magnets Enabled by the Coherent Control of Quantum Sensors. <i>PRX Quantum</i> , 2021, 2, .	9.2	5
17	Mapping domain-wall topology in the magnetic Weyl semimetal CeAlSi. <i>Physical Review B</i> , 2021, 104, .	3.2	17
18	Pressure-induced magnetism in the iron-based superconductors $\text{AFeAs}_2$ ( $\text{A} = \text{Ca, Sr}$ ). <i>Physical Review B</i> , 2021, 103, .	3.2	17

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19	Accessing new magnetic regimes by tuning the ligand spin-orbit coupling in van der Waals magnets. <i>Science Advances</i> , 2020, 6, eabb9379.	10.3	42
20	Transition from intrinsic to extrinsic anomalous Hall effect in the ferromagnetic Weyl semimetal $\text{PrAlGe}_2$ . <i>APL Materials</i> , 2020, 8, .	5.1	41
21	Transient grating measurements at ultralow probe power. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2020, 37, 433.	2.1	4
22	Tuning the magnetic and structural properties of a three-metal boride alloy: $\text{Mn}_{0.95}\text{Fe}_{1.05}\text{Co}$ . <i>Journal of Alloys and Compounds</i> , 2019, 805, 909-914.	5.5	4
23	Coexistence of static and dynamic magnetism in the Kitaev spin liquid material $\text{Cu}_2\text{Mn}_2\text{S}_6$ . <i>Physical Review B</i> , 2019, 100, .	8.9	27
24	Spin Excitations of a Proximate Kitaev Quantum Spin Liquid Realized in $\text{Cu}_2\text{Mn}_2\text{S}_6$ . <i>Physical Review X</i> , 2019, 9, .	8.9	27
25	Thermodynamic Evidence of Proximity to a Kitaev Spin Liquid in $\text{Ag}_2\text{O}_6$ . <i>Physical Review Letters</i> , 2019, 123, 237202.	7.3	10
26	Au Dendrite Electrocatalysts for $\text{CO}_2$ Electrolysis. <i>Journal of Physical Chemistry C</i> , 2018, 122, 10006-10016.	3.1	30
27	Controlling Magnetic and Optical Properties of the van der Waals Crystal $\text{CrCl}_3$ via Mixed Halide Chemistry. <i>Advanced Materials</i> , 2018, 30, e1801325.	21.0	100
28	Crystal Chemistry and Phonon Heat Capacity in Quaternary Honeycomb Delafossites: $\text{Cu}[\text{Li}_{1/3}\text{Sn}_{2/3}]\text{O}_2$ and $\text{Cu}[\text{Na}_{1/3}\text{Sn}_{2/3}]\text{O}_2$ . <i>Inorganic Chemistry</i> , 2018, 57, 12709-12717.	4.0	13
29	Effect of hydrothermal conditions on superconductivity and magnetism in $[\text{Li}_{1-x}\text{Fe}_x\text{OH}]\text{FeS}$ . <i>Materials Chemistry and Physics</i> , 2018, 217, 451-456.	4.0	2
30	Interplay of magnetism and transport in HoBi. <i>Physical Review B</i> , 2018, 98, .	3.2	19
31	$\text{Cu}_2\text{IrO}_3$ : A New Magnetically Frustrated Honeycomb Iridate. <i>Journal of the American Chemical Society</i> , 2017, 139, 15371-15376.	13.7	83
32	Extreme magnetoresistance in the topologically trivial lanthanum monopnictide LaAs. <i>Physical Review B</i> , 2017, 96, .	3.2	41