

Tomoya Higo

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/8764572/publications.pdf>

Version: 2024-02-01

27
papers

2,107
citations

623574

14
h-index

552653

26
g-index

28
all docs

28
docs citations

28
times ranked

2387
citing authors

#	ARTICLE	IF	CITATIONS
1	Anomalous Hall effect in nanoscale structures of the antiferromagnetic Weyl semimetal Mn_3Sn at room temperature. Applied Physics Letters, 2022, 121, 013103.	1.5	4
2	Domain structure and domain wall dynamics in topological chiral antiferromagnets from the viewpoint of magnetic octupole. Applied Physics Letters, 2021, 118, .	1.5	6
3	Omnidirectional Control of Large Electrical Output in a Topological Antiferromagnet. Advanced Functional Materials, 2021, 31, 2008971.	7.8	26
4	Low Gilbert damping in epitaxial thin films of the nodal-line semimetal $D_{Fe_3Ga_5O_5}$. Physical Review B, 2021, 103, .	1.1	5
5	Large Hall Signal due to Electrical Switching of an Antiferromagnetic Weyl Semimetal State. Small Science, 2021, 1, 2000025.	5.8	16
6	Giant Effective Damping of Octupole Oscillation in an Antiferromagnetic Weyl Semimetal. Small Science, 2021, 1, 2000062.	5.8	20
7	Spin-orbit torque switching of the antiferromagnetic state in polycrystalline Mn_3Sn/Cu /heavy metal heterostructures. AIP Advances, 2021, 11, .	0.6	10
8	Fabrication of polycrystalline Weyl antiferromagnetic Mn_3Sn thin films on various seed layers. Physical Review Materials, 2021, 5, .	0.9	8
9	Observation of spontaneous x-ray magnetic circular dichroism in a chiral antiferromagnet. Physical Review B, 2021, 104, .	1.1	8
10	Giant field-like torque by the out-of-plane magnetic spin Hall effect in a topological antiferromagnet. Nature Communications, 2021, 12, 6491.	5.8	41
11	Impact of the Lattice on Magnetic Properties and Possible Spin Nematicity in the S_1 Triangular Antiferromagnet $NiGa_2S_4$. Physical Review Letters, 2020, 125, 197201.	2.9	9
12	Magnetic and transport properties of amorphous, B2 and L21 Co_2MnGa thin films. AIP Advances, 2020, 10, 085020.	0.6	16
13	Magneto-optical Kerr effect in a non-collinear antiferromagnet Mn_3Ge . Applied Physics Letters, 2020, 116, .	1.5	31
14	Effect of sample size on anomalous Nernst effect in chiral antiferromagnetic Mn_3Sn devices. Applied Physics Letters, 2020, 116, .	1.5	15
15	Room-temperature terahertz anomalous Hall effect in Weyl antiferromagnet Mn_3Sn thin films. Nature Communications, 2020, 11, 909.	5.8	70
16	Iron-based binary ferromagnets for transverse thermoelectric conversion. Nature, 2020, 581, 53-57.	13.7	162
17	Electrical manipulation of a topological antiferromagnetic state. Nature, 2020, 580, 608-613.	13.7	212
18	Room-Temperature Large Terahertz Anomalous Hall Effect in Weyl Antiferromagnet Mn_3Sn Thin Film. , 2020, , .		0

#	ARTICLE	IF	CITATIONS
19	Terahertz conductivity of the magnetic Weyl semimetal Mn ₃ Sn films. Applied Physics Letters, 2019, 115, .	1.5	26
20	Large magneto-optical Kerr effect and imaging of magnetic octupole domains in an antiferromagnetic metal. Nature Photonics, 2018, 12, 73-78.	15.6	260
21	Anomalous Hall effect in thin films of the Weyl antiferromagnet Mn ₃ Sn. Applied Physics Letters, 2018, 113, . Frustrated magnetism in the Heisenberg pyrochlore antiferromagnets A_{Yb}	1.5	97
22			