

# 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	Large anomalous Hall effect in a non-collinear antiferromagnet at room temperature. Nature, 2015, 527, 212-215.	13.7	1,009
2	Large magneto-optical Kerr effect and imaging of magnetic octupole domains in an antiferromagnetic metal. Nature Photonics, 2018, 12, 73-78.	15.6	260
3	Electrical manipulation of a topological antiferromagnetic state. Nature, 2020, 580, 608-613.	13.7	212
4	Iron-based binary ferromagnets for transverse thermoelectric conversion. Nature, 2020, 581, 53-57.	13.7	162
5	Anomalous Hall effect in thin films of the Weyl antiferromagnet Mn <sub>3</sub> Sn. Applied Physics Letters, 2018, 113, .	1.5	97
6	Room-temperature terahertz anomalous Hall effect in Weyl antiferromagnet Mn <sub>3</sub> Sn thin films. Nature Communications, 2020, 11, 909.	5.8	70
7	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
8	Magneto-optical Kerr effect in a non-collinear antiferromagnet Mn <sub>3</sub> Ge. Applied Physics Letters, 2020, 116, .	1.5	31
9	Terahertz conductivity of the magnetic Weyl semimetal Mn <sub>3</sub> Sn films. Applied Physics Letters, 2019, 115, .	1.5	26
10	Omnidirectional Control of Large Electrical Output in a Topological Antiferromagnet. Advanced Functional Materials, 2021, 31, 2008971.	7.8	26
11	Giant Effective Damping of Octupole Oscillation in an Antiferromagnetic Weyl Semimetal. Small Science, 2021, 1, 2000062. Frustrated magnetism in the Heisenberg pyrochlore antiferromagnets <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>A</mml:mi><mml:msub><mml:mi>Yb</mml:mi><mml:mi>	5.8	20
12			

#	ARTICLE	IF	CITATIONS
19	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
20	Magnetization Anomaly due to the Non-Coplanar Spin Structure in $NiS_2$ . Journal of the Physical Society of Japan, 2015, 84, 053702.	0.7	8
21	Fabrication of polycrystalline Weyl antiferromagnetic $Mn_3Sn$ thin films on various seed layers. Physical Review Materials, 2021, 5, .	0.3	0
22	Observation of spontaneous x-ray magnetic circular dichroism in a chiral antiferromagnet. Physical Review B, 2021, 104, .	1.1	8
23	Domain structure and domain wall dynamics in topological chiral antiferromagnets from the viewpoint of magnetic octupole. Applied Physics Letters, 2021, 118, .	1.5	6
24	Low Gilbert damping in epitaxial thin films of the nodal-line semimetal $D_3Fe_3Ga$ . Physical Review B, 2021, 103, .	1.1	5
25	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
26	Magnetic properties of the quasi-two-dimensional antiferromagnet $Ni_2Al_2S_4$ .	1.1	3
27	Room-Temperature Large Terahertz Anomalous Hall Effect in Weyl Antiferromagnet $Mn_3Sn$ Thin Film. , 2020, , .		0