

Naoya Kanazawa

List of Publications by Year in descending order

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70
papers

9,269
citations

101496

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73
docs citations

73
times ranked

4856
citing authors

#	ARTICLE	IF	CITATIONS
1	Detection of Topological Spin Textures via Nonlinear Magnetic Responses. <i>Nano Letters</i> , 2022, 22, 14-21.	4.5	3
2	Topological Phase Transitions and Critical Phenomena Associated with Unwinding of Spin Crystals by High Magnetic Fields. <i>Journal of the Physical Society of Japan</i> , 2022, 91, .	0.7	3
3	Magnetic Skyrmion Materials. <i>Chemical Reviews</i> , 2021, 121, 2857-2897.	23.0	292
4	Signature of anisotropic exchange interaction revealed by vector-field control of the helical order in a FeGe thin plate. <i>Physical Review Research</i> , 2021, 3, .	1.3	9
5	Giant anomalous Hall effect from spin-chirality scattering in a chiral magnet. <i>Nature Communications</i> , 2021, 12, 317.	5.8	40
6	Enhanced electrical magnetochiral effect by spin-hedgehog lattice structural transition. <i>Physical Review B</i> , 2021, 103, .	1.1	2
7	Emergent electromagnetic induction beyond room temperature. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	3.3	30
8	Magneto-optical spectroscopy on Weyl nodes for anomalous and topological Hall effects in chiral MnGe. <i>Nature Communications</i> , 2021, 12, 5974.	5.8	13
9	Dislocation-Driven Relaxation Processes at the Conical to Helical Phase Transition in FeGe. <i>ACS Nano</i> , 2021, , .	7.3	0
10	Emergence of spin-orbit coupled ferromagnetic surface state derived from Zak phase in a nonmagnetic insulator FeSi. <i>Science Advances</i> , 2021, 7, eabj0498.	4.7	10
11	Giant magneto-optical responses in magnetic Weyl semimetal Co ₃ Sn ₂ S ₂ . <i>Nature Communications</i> , 2020, 11, 4619.	5.8	92
12	Bloch Lines Constituting Antiskyrmions Captured via Differential Phase Contrast. <i>Advanced Materials</i> , 2020, 32, e2004206.	11.1	21
13	Metastable solitonic states in the strained itinerant helimagnet FeGe. <i>Physical Review B</i> , 2020, 102, .	1.1	7
14	Combining the helical phase of chiral magnets with electric currents. <i>Physical Review B</i> , 2020, 102, .	1.1	14
15	Real-Space Observation of Topological Defects in Extended Skyrmion-Strings. <i>Nano Letters</i> , 2020, 20, 7313-7320.	4.5	26
16	Direct Observation of the Statics and Dynamics of Emergent Magnetic Monopoles in a Chiral Magnet. <i>Physical Review Letters</i> , 2020, 125, 137202.	2.9	34
17	Topological Kagome Magnet Co ₃ Sn ₂ S ₂ Thin Flakes with High Electron Mobility and Large Anomalous Hall Effect. <i>Nano Letters</i> , 2020, 20, 7476-7481.	4.5	54
18	Quantitative Measurement of Topological Spin Textures via Differential Phase Contrast. <i>Microscopy and Microanalysis</i> , 2020, 26, 614-616.	0.2	0

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19	Motion tracking of 80-nm-size skyrmions upon directional current injections. <i>Science Advances</i> , 2020, 6, eaaz9744.	4.7	37
20	Engineering skyrmions and emergent monopoles in topological spin crystals. <i>Applied Physics Letters</i> , 2020, 116, .	1.5	41
21	Topological Magnetic Phase in the Candidate Weyl Semimetal CeAlGe. <i>Physical Review Letters</i> , 2020, 124, 017202.	2.9	99
22	Emergent topological spin structures in the centrosymmetric cubic perovskite SrFeO_3 . <i>Physical Review B</i> , 2020, 101, .	6.2	62
23	Determination of crystallographic chirality of MnSi thin film grown on Si (111) substrate. <i>Physical Review Materials</i> , 2020, 4, .	0.9	9
24	Monoclinic semimetal IrSi synthesized under high pressure above 25 GPa: Crystal structure, electronic, and magnetic properties. <i>Physical Review Materials</i> , 2020, 4, .	0.9	1
25	Topological Magnetic Phase Transitions Revealed by Neutron Scattering Experiment From Skyrmion Lattice to Emergent Monopole Lattice $\frac{1}{4}$. <i>Hamon</i> , 2020, 30, 144-148.	0.0	0
26	Topological transitions among skyrmion- and hedgehog-lattice states in cubic chiral magnets. <i>Nature Communications</i> , 2019, 10, 1059.	5.8	112
27	Topological domain walls in helimagnets. <i>Nature Physics</i> , 2018, 14, 465-468.	6.5	47
28	Large magneto-thermopower in MnGe with topological spin texture. <i>Nature Communications</i> , 2018, 9, 408.	5.8	36
29	Current-Driven Motion of Domain Boundaries between Skyrmion Lattice and Helical Magnetic Structure. <i>Nano Letters</i> , 2018, 18, 929-933.	4.5	15
30	Aggregation and collapse dynamics of skyrmions in a non-equilibrium state. <i>Nature Physics</i> , 2018, 14, 832-836.	6.5	54
31	Coherent Resonant Soft X-ray Scattering Study of Magnetic Textures in FeGe. <i>Quantum Beam Science</i> , 2018, 2, 3.	0.6	19
32	Current-induced dynamics of skyrmion strings. <i>Science Advances</i> , 2018, 4, eaat1115.	4.7	49
33	Temperature and Magnetic Field Dependence of the Internal and Lattice Structures of Skyrmions by Off-Axis Electron Holography. <i>Physical Review Letters</i> , 2017, 118, 087202.	2.9	49
34	Noncentrosymmetric Magnets Hosting Magnetic Skyrmions. <i>Advanced Materials</i> , 2017, 29, 1603227.	11.1	158
35	Ferromagnetic Materials: Noncentrosymmetric Magnets Hosting Magnetic Skyrmions (<i>Adv. Mater.</i>) $\frac{1}{11.1}$ $\frac{1}{1}$ $\frac{0.784314}{1}$ $\frac{rgBT}{Overlo$	11.1	1
36	Mapping the magnetization fine structure of a lattice of Bloch-type skyrmions in an FeGe thin film. <i>Applied Physics Letters</i> , 2017, 111, 192410.	1.5	26

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37	Spin-wave spectroscopy of the Dzyaloshinskii-Moriya interaction in room-temperature chiral magnets hosting skyrmions. <i>Physical Review B</i> , 2017, 95, .	1.1	48
38	Topological spin-hedgehog crystals of a chiral magnet as engineered with magnetic anisotropy. <i>Physical Review B</i> , 2017, 96, .	1.1	25
39	Electrical magnetochiral effect induced by chiral spin fluctuations. <i>Nature Communications</i> , 2017, 8, 866.	5.8	76
40	Direct observation of anisotropic magnetic field response of the spin helix in FeGe thin films. <i>Physical Review B</i> , 2016, 94, .	1.1	24
41	Local dynamics of topological magnetic defects in the itinerant helimagnet FeGe. <i>Nature Communications</i> , 2016, 7, 12430.	5.8	53
42	Critical phenomena of emergent magnetic monopoles in a chiral magnet. <i>Nature Communications</i> , 2016, 7, 11622.	5.8	97
43	Variation of spin-orbit coupling and related properties in skyrmionic system $\text{Mn}_{1-x}\text{Fe}_x\text{Ge}$. <i>New Journal of Physics</i> , 2016, 18, 045006.	1.2	20
44	Interplay between topological and thermodynamic stability in a metastable magnetic skyrmion lattice. <i>Nature Physics</i> , 2016, 12, 62-66.	6.5	164
45	Dynamical process of skyrmion-helical magnetic transformation of the chiral-lattice magnet FeGe probed by small-angle resonant soft x-ray scattering. <i>Physical Review B</i> , 2015, 92, .	1.1	33
46	Large anisotropic deformation of skyrmions in strained crystal. <i>Nature Nanotechnology</i> , 2015, 10, 589-592.	15.6	188
47	Formation of In-plane Skyrmions in Epitaxial MnSi Thin Films as Revealed by Planar Hall Effect. <i>Journal of the Physical Society of Japan</i> , 2015, 84, 104708.	0.7	40
48	Discretized topological Hall effect emerging from skyrmions in constricted geometry. <i>Physical Review B</i> , 2015, 91, .	1.1	84
49	Real-Space Observation of Short-Period Cubic Lattice of Skyrmions in MnGe. <i>Nano Letters</i> , 2015, 15, 5438-5442.	4.5	160
50	3D Skyrmion-Lattice and Topological Hall Effect in MnGe. <i>Springer Theses</i> , 2015, , 45-60.	0.0	0
51	Skyrmion Formation in Epitaxial FeGe Thin Films. <i>Springer Theses</i> , 2015, , 61-73.	0.0	0
52	Magnetic and Transport Properties in B20-type Germanides. <i>Springer Theses</i> , 2015, , 29-44.	0.0	0
53	3D Dirac Electrons and Large Thermoelectric Properties in CoGe. <i>Springer Theses</i> , 2015, , 75-84.	0.0	0
54	Li et al. Reply. <i>Physical Review Letters</i> , 2014, 112, 059702.	2.9	7

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55	Thermally driven ratchet motion of a skyrmion microcrystal and topological magnon Hall effect. Nature Materials, 2014, 13, 241-246.	13.3	268
56	Stability of two-dimensional skyrmions in thin films of Mn _{1-x} Fe _x investigated by the topological Hall effect. Physical Review B, 2014, 89, .	1.1	73
57	Observation of the magnetic flux and three-dimensional structure of skyrmion lattices by electron holography. Nature Nanotechnology, 2014, 9, 337-342.	15.6	160
58	Miniature Hall sensor integrated on a magnetic thin film for detecting domain wall motion. Journal of Applied Physics, 2013, 114, 053909.	1.1	4
59	Crystal chirality and skyrmion helicity in MnSi and (Fe, Co)Si as determined by transmission electron microscopy. Physical Review B, 2013, 88, .	1.1	38
60	Topological Nernst effect in a three-dimensional skyrmion-lattice phase. Physical Review B, 2013, 88, .	1.1	82
61	Towards control of the size and helicity of skyrmions in helimagnetic alloys by spin-orbit coupling. Nature Nanotechnology, 2013, 8, 723-728.	15.6	264
62	Robust Formation of Skyrmions and Topological Hall Effect Anomaly in Epitaxial Thin Films of MnSi. Physical Review Letters, 2013, 110, 117202.	2.9	269
63	Band-filling dependence of thermoelectric properties in B20-type CoGe. Applied Physics Letters, 2012, 100, .	1.5	16
64	Possible skyrmion-lattice ground state in the chiral-lattice magnet MnGe as seen via small-angle neutron scattering. Physical Review B, 2012, 86, .	1.1	127
65	Real-Space Observation of Skyrmion Lattice in Helimagnet MnSi Thin Samples. Nano Letters, 2012, 12, 1673-1677.	4.5	284
66	Skyrmion flow near room temperature in an ultralow current density. Nature Communications, 2012, 3, 988.	5.8	709
67	Large Topological Hall Effect in a Short-Period Helimagnet MnGe. Physical Review Letters, 2011, 106, 156603.	2.9	485
68	Near room-temperature formation of a skyrmion crystal in thin-films of the helimagnet FeGe. Nature Materials, 2011, 10, 106-109.	13.3	1,374
69	Observation of Skyrmion Lattice by Lorentz Transmission Electron Microscopy. Nihon Kessho Gakkaishi, 2011, 53, 274-279.	0.0	0
70	Real-space observation of a two-dimensional skyrmion crystal. Nature, 2010, 465, 901-904.	13.7	2,626