

Daisuke Morikawa

List of Publications by Year in descending order

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papers

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citations

257450

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docs citations

43
times ranked

3075
citing authors

#	ARTICLE	IF	CITATIONS
1	A new class of chiral materials hosting magnetic skyrmions beyond room temperature. Nature Communications, 2015, 6, 7638.	12.8	411
2	Valley-dependent spin polarization in bulk MoS2 with broken inversion symmetry. Nature Nanotechnology, 2014, 9, 611-617.	31.5	374
3	Towards control of the size and helicity of skyrmions in helimagnetic alloys by spin-orbit coupling. Nature Nanotechnology, 2013, 8, 723-728.	31.5	264
4	Disordered skyrmion phase stabilized by magnetic frustration in a chiral magnet. Science Advances, 2018, 4, eaar7043.	10.3	83
5	Electrical magnetochiral effect induced by chiral spin fluctuations. Nature Communications, 2017, 8, 866.	12.8	76
6	Variation of skyrmion forms and their stability in MnSi thin plates. Physical Review B, 2015, 91, .	3.2	69
7	Skyrmion formation in a bulk chiral magnet at zero magnetic field and above room temperature. Physical Review Materials, 2017, 1, .	2.4	63
8	Aggregation and collapse dynamics of skyrmions in a non-equilibrium state. Nature Physics, 2018, 14, 832-836.	16.7	54
9	Current-induced Nucleation and Annihilation of Magnetic Skyrmions at Room Temperature in a Chiral Magnet. Advanced Materials, 2017, 29, 1606178.	21.0	53
10	Current-induced dynamics of skyrmion strings. Science Advances, 2018, 4, eaat1115.	10.3	49
11	Spin-wave spectroscopy of the Dzyaloshinskii-Moriya interaction in room-temperature chiral magnets hosting skyrmions. Physical Review B, 2017, 95, .	3.2	48
12	Deformation of Topologically-Protected Supercooled Skyrmions in a Thin Plate of Chiral Magnet $\text{Co}_8\text{Zn}_8\text{Mn}_4$. Nano Letters, 2017, 17, 1637-1641.	9.1	42
13	Ferroelectric-like metallic state in electron doped BaTiO_3 . Scientific Reports, 2015, 5, 13207.	3.3	41
14	Direct observation of orbital ordering in the spinel oxide FeCr_2 using convergent-beam electron diffraction. Physical Review B, 2010, 81, .	3.2	40
15	Crystal chirality and skyrmion helicity in MnSi and (Fe, Co)Si as determined by transmission electron microscopy. Physical Review B, 2013, 88, .	3.2	38
16	Visualization of ferroaxial domains in an order-disorder type ferroaxial crystal. Nature Communications, 2020, 11, 4582.	12.8	38
17	Motion tracking of 80-nm-size skyrmions upon directional current injections. Science Advances, 2020, 6, eaaz9744.	10.3	37
18	Emergence of Topological Hall Effect in Half-Metallic Manganite Thin Films by Tuning Perpendicular Magnetic Anisotropy. Journal of the Physical Society of Japan, 2018, 87, 074704.	1.6	34

#	ARTICLE	IF	CITATIONS
19	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, .	3.2	33
20	Lorentz transmission electron microscopy on nanometric magnetic bubbles and skyrmions in bilayered manganites $\text{La}_{1.2}\text{Sr}_{1.8}(\text{Mn}_{1-x}\text{Ru}_x)\text{O}_7$ with controlled magnetic anisotropy. <i>Applied Physics Letters</i> , 2015, 107, .	3.3	30
21	Element-specific soft x-ray spectroscopy, scattering, and imaging studies of the skyrmion-hosting compound $\text{Co}_2\text{Mn}_8\text{O}_{29}$. <i>Physical Review B</i> , 2014, 89, .	3.2	29
22	Evolution of magnetic and structural transitions and enhancement of magnetocaloric effect in $\text{Fe}_2\text{V}_2\text{O}_4$. <i>Physical Review B</i> , 2014, 89, .	3.2	28
23	Topological spin-hedgehog crystals of a chiral magnet as engineered with magnetic anisotropy. <i>Physical Review B</i> , 2017, 96, .	3.2	25
24	Emergence and magnetic-field variation of chiral-soliton lattice and skyrmion lattice in the strained helimagnet Cu_2OSeO_3 . <i>Physical Review B</i> , 2017, 96, .	3.2	24
25	Coherent Resonant Soft X-ray Scattering Study of Magnetic Textures in FeGe. <i>Quantum Beam Science</i> , 2018, 2, 3.	1.2	19
26	Charge and Orbital Order Patterns in an A-Site Ordered Perovskite-Type Manganite $\text{SmBaMn}_2\text{O}_6$ Determined by Convergent-Beam Electron Diffraction. <i>Journal of the Physical Society of Japan</i> , 2012, 81, 093602.	1.6	18
27	Zigzag magnetic order in the Kitaev spin-liquid candidate material RuBr_3 with a honeycomb lattice. <i>Physical Review B</i> , 2022, 105, .	3.2	17
28	Frustration-driven magnetic fluctuations as the origin of the low-temperature skyrmion phase in $\text{Co}_7\text{Zn}_7\text{Mn}_6$. <i>Npj Quantum Materials</i> , 2021, 6, .	5.2	16
29	Analysis of the Dislocation and Polarity in an AlN Layer Grown Using Ga-Al Flux. <i>Applied Physics Express</i> , 2012, 5, 101001.	2.4	15
30	Directional electric-field induced transformation from skyrmion lattice to distinct helices in multiferroic $\text{Cu}_2\text{Mn}_2\text{O}_7$. <i>Physical Review B</i> , 2017, 95, .	3.2	14
31	Structural and Li-ion diffusion properties of lithium tantalum phosphate LiTa_2PO_8 . <i>Solid State Ionics</i> , 2020, 351, 115314.	2.7	13
32	Determination of crystallographic chirality of MnSi thin film grown on Si (111) substrate. <i>Physical Review Materials</i> , 2020, 4, .	2.4	9
33	Metamagnetic transitions and magnetoelectric responses in the chiral polar helimagnet Ni_2O_6 . <i>Physical Review B</i> , 2020, 102, .	3.2	6
34	Local crystal symmetry and structure at CaTiO_3 twin boundaries. <i>Applied Physics Letters</i> , 2021, 118, .	3.3	6
35	Structural-transition-driven antiferromagnetic to spin-glass transition in $\text{CdMgTb}_{1/1}$ approximants. <i>Journal of Physics Condensed Matter</i> , 2020, 32, 485801.	1.8	6
36	Electric-field response of polar nanodomains in BaTiO_3 . <i>Applied Physics Letters</i> , 2021, 119, .	3.3	5

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37	Evaluation of accuracy in the determination of crystal structure factors using large-angle convergent-beam electron diffraction patterns. <i>Microscopy (Oxford, England)</i> , 2021, 70, 178-185.	1.5	4
38	Evaluation of TEM specimen quality prepared by focused ion beam using symmetry breaking index of convergent-beam electron diffraction. <i>Microscopy (Oxford, England)</i> , 2021, 70, 394-397.	1.5	2
39	Electron diffraction study of crystal structures of O_7 . <i>Physical Review Materials</i> , 2019, 3, .	2.4	0
40	Space group determination and first-principles structure optimization of the $\text{NdBaMn}_2\text{O}_6$ perovskite-type manganite. <i>Physical Review B</i> , 2022, 105, .	3.2	1
41	Recent Development of Structure Analysis Using Convergent-Beam Electron Diffraction. <i>Nihon Kessho Gakkaishi</i> , 2021, 63, 135-142.	0.0	0
42	Improvement of precision in refinements of structure factors using convergent-beam electron diffraction patterns taken at Bragg-excited conditions. <i>Acta Crystallographica Section A: Foundations and Advances</i> , 2021, 77, 289-295.	0.1	0
43	Coexisting Z-type charge and bond order in metallic NaRu_2O_4 . <i>Communications Materials</i> , 2022, 3, .	6.9	0