

Shinichiro Seki

List of Publications by Year in descending order

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74
papers

7,281
citations

87888

38
h-index

91884

69
g-index

75
all docs

75
docs citations

75
times ranked

6553
citing authors

#	ARTICLE	IF	CITATIONS
1	Direct visualization of the three-dimensional shape of skyrmion strings in a noncentrosymmetric magnet. <i>Nature Materials</i> , 2022, 21, 181-187.	27.5	37
2	Tunable gigahertz dynamics of low-temperature skyrmion lattice in a chiral magnet. <i>Journal of Physics Condensed Matter</i> , 2022, 34, 095801.	1.8	4
3	Zoology of Multiple Q Spin Textures in a Centrosymmetric Tetragonal Magnet with Itinerant Electrons. <i>Advanced Science</i> , 2022, 9, e21105452.	11.2	42
4	Square and rhombic lattices of magnetic skyrmions in a centrosymmetric binary compound. <i>Nature Communications</i> , 2022, 13, 1472.	12.8	65
5	Nonreciprocity of spin waves in the conical helix state. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	7.1	7
6	Real-space observations of 60-nm skyrmion dynamics in an insulating magnet under low heat flow. <i>Nature Communications</i> , 2021, 12, 5079.	12.8	27
7	Topological defect-mediated skyrmion annihilation in three dimensions. <i>Communications Physics</i> , 2021, 4, .	5.3	16
8	Coupling microwave photons to topological spin textures in $\text{CuMn}_2\text{P}_2\text{O}_{14}$. <i>Physical Review B</i> , 2021, 104, .		
9	Mechanism of Magnetic Skyrmion Formation in Cubic Systems with 4f Electrons. <i>JPSJ News and Comments</i> , 2021, 18, 10.	0.1	0
10	Hybridized magnon modes in the quenched skyrmion crystal. <i>Physical Review B</i> , 2021, 104, .	3.2	7
11	Enhanced gyrotropic birefringence and natural optical activity on electromagnon resonance in a helimagnet. <i>Nature Communications</i> , 2021, 12, 6674.	12.8	6
12	Bloch Lines Constituting Antiskyrmions Captured via Differential Phase Contrast. <i>Advanced Materials</i> , 2020, 32, e2004206.	21.0	21
13	Particle-size dependent structural transformation of skyrmion lattice. <i>Nature Communications</i> , 2020, 11, 5685.	12.8	15
14	Imaging the coupling between itinerant electrons and localised moments in the centrosymmetric skyrmion magnet GdRu_2Si_2 . <i>Nature Communications</i> , 2020, 11, 5925.	12.8	75
15	Structural analysis of high-pressure phase for skyrmion-hosting multiferroic $\text{CuMn}_2\text{P}_2\text{O}_{14}$. <i>Physical Review B</i> , 2020, 102, .		
16	Nanometric square skyrmion lattice in a centrosymmetric tetragonal magnet. <i>Nature Nanotechnology</i> , 2020, 15, 444-449.	31.5	192
17	Creation of magnetic skyrmions by surface acoustic waves. <i>Nature Nanotechnology</i> , 2020, 15, 361-366.	31.5	62
18	Propagation dynamics of spin excitations along skyrmion strings. <i>Nature Communications</i> , 2020, 11, 256.	12.8	81

#	ARTICLE	IF	CITATIONS
19	Controlled transformation of skyrmions and antiskyrmions in a non-centrosymmetric magnet. Nature Nanotechnology, 2020, 15, 181-186.	31.5	110
20	Emergent topological spin structures in the centrosymmetric cubic perovskite SrFeO_3 . Physical Review B, 2020, 101, .	3.2	16
21	Increased lifetime of metastable skyrmions by controlled doping. Physical Review B, 2019, 100, .	3.2	32
22	Phonon Magnetochiral Effect. Physical Review Letters, 2019, 122, 145901.	7.8	61
23	Magnon-photon coupling in the noncollinear magnetic insulator Cu_2OSeO_3 . Physical Review Letters, 2019, 122, 057202.	3.2	16
24	Microwave Directional Dichroism Resonant with Spin Excitations in the Polar Ferromagnet GaV_4S_8 . Physical Review Letters, 2019, 122, 057202.	7.8	11
25	Low-Field Bi-Skyrmion Formation in a Noncentrosymmetric Chimney Ladder Ferromagnet. Physical Review Letters, 2018, 120, 037203.	7.8	25
26	Multiple- q noncollinear magnetism in an itinerant hexagonal magnet. Science Advances, 2018, 4, eaau3402.	10.3	47
27	Noncentrosymmetric Magnets Hosting Magnetic Skyrmions. Advanced Materials, 2017, 29, 1603227.	21.0	158
28	Nonlinear Ultrafast Spin Scattering in the Skyrmion Phase of Cu_2OSeO_3 . Physical Review Letters, 2017, 119, 107204.	7.8	18
29	Emergence and magnetic-field variation of chiral-soliton lattice and skyrmion lattice in the strained helimagnet Cu_2OSeO_3 . Physical Review B, 2017, 96, .	3.2	24
30	Thermal stability and irreversibility of skyrmion-lattice phases in Cu_2OSeO_3 . Physical Review B, 2017, 95, .	3.2	26
31	Directional electric-field induced transformation from skyrmion lattice to distinct helices in multiferroic Cu_2OSeO_3 . Physical Review B, 2017, 95, .	3.2	14
32	Spin-wave spectroscopy of the Dzyaloshinskii-Moriya interaction in room-temperature chiral magnets hosting skyrmions. Physical Review B, 2017, 95, .	3.2	48
33	Stabilization of magnetic skyrmions by uniaxial tensile strain. Physical Review B, 2017, 96, .	3.2	28
34	Impact of minute-time-scale kinetics on the stabilization of the skyrmion-lattice in Cu_2OSeO_3 . Journal of Physics: Conference Series, 2017, 828, 012004.	0.4	3
35	Thermal generation of spin current in a multiferroic helimagnet. APL Materials, 2016, 4, 032502.	5.1	11
36	Magnetochiral nonreciprocity of volume spin wave propagation in chiral-lattice ferromagnets. Physical Review B, 2016, 93, .	3.2	109

#	ARTICLE	IF	CITATIONS
55	Magnetolectric resonances and predicted microwave diode effect of the skyrmion crystal in a multiferroic chiral-lattice magnet. Physical Review B, 2013, 87, .	3.2	70
56	Optimal T_c for Electron-Doped Cuprate Realized under High Pressure. Journal of the Physical Society of Japan, 2013, 82, 063705.	1.6	6
57	Formation and rotation of skyrmion crystal in the chiral-lattice insulator Cu_2OSeO_3 . Physical Review B, 2012, 85, .	3.2	163
58	Substitution Effect on the Magnetic State of Delafossite CuCrO_2 Having a Spin-3/2 Antiferromagnetic Triangular Sublattice. Journal of Physics: Conference Series, 2012, 400, 032072.	0.4	1
59	Observation of Skyrmions in a Multiferroic Material. Science, 2012, 336, 198-201.	12.6	1,125
60	Magnetolectric nature of skyrmions in a chiral magnetic insulator Cu_2OSeO_3 . Physical Review B, 2012, 86, .	3.2	162
61	Observation of Magnetic Excitations of Skyrmion Crystal in a Helimagnetic Insulator Cu_2OSeO_3 . Physical Review Letters, 2012, 109, 037603.	7.8	278
62	Magnetolectric Response in S=1/2 Chain Helimagnets. Springer Theses, 2012, , 85-104.	0.1	0
63	Magnetic-Field Induced Competition of Two Multiferroic Orders in a Triangular-Lattice Helimagnet Mn_2Mn_2 . Physical Review Letters, 2011, 106, 167206.	7.8	62
64	Effect of Spin Dilution on the Magnetic State of Delafossite CuCrO_2 with an $S=3/2$ Antiferromagnetic Triangular Sublattice. Journal of the Physical Society of Japan, 2011, 80, 014711.	1.6	24
65	Multiferroics with Spiral Spin Orders. Advanced Materials, 2010, 22, 1554-1565.	21.0	564
66	Electronic structure, magnetic, and dielectric properties of the edge-sharing copper oxide chain compound NaCu_2O_7 . Physical Review B, 2010, 81, .	3.2	23
67	Electromagnons in the Spin Collinear State of a Triangular Lattice Antiferromagnet. Physical Review Letters, 2010, 105, 097207.	7.8	49
68	Cupric chloride CuCl_2 an $S=1$ bevelled="false"> CuCl_2 chain Magnetic Digital Flop of Ferroelectric Domain with Fixed Spin Chirality in a Triangular Lattice Helimagnet. Physical Review Letters, 2009, 103, 237601.	3.2	69
69	Correlation between Spin Helicity and an Electric Polarization Vector in Quantum-Spin Chain Magnet LiCu_2O . Physical Review Letters, 2008, 100, 127201.	7.8	36
70	Correlation between Spin Helicity and an Electric Polarization Vector in Quantum-Spin Chain Magnet LiCu_2O . Physical Review Letters, 2008, 100, 127201.	7.8	185
71	A_2CrO_2 ($\text{A} = \text{La, Pr, Nd, Sm}$)	7.8	306
72	Effect of Quenched Disorder on Charge Ordering Structure in $\text{RE}_{1.67}\text{AE}_{0.33}\text{NiO}_4$ (RE = La, Pr, Nd, Sm; AE) $\text{Tj ETQq}_0\text{O}_0\text{O}_0\text{rgBT}_2$ /Overlock	1.6	0

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73	Impurity-doping-induced ferroelectricity in the frustrated antiferromagnet CuFeO ₂ . Physical Review B, 2007, 75, .	3.2	162
74	Photoconductive Coaxial Nanotubes of Molecularly Connected Electron Donor and Acceptor Layers. Science, 2006, 314, 1761-1764.	12.6	642