

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	Observation of Skyrmions in a Multiferroic Material. <i>Science</i> , 2012, 336, 198-201.	12.6	1,125
2	Multiferroics of spin origin. <i>Reports on Progress in Physics</i> , 2014, 77, 076501.	20.1	694
3	Photoconductive Coaxial Nanotubes of Molecularly Connected Electron Donor and Acceptor Layers. <i>Science</i> , 2006, 314, 1761-1764.	12.6	642
4	Multiferroics with Spiral Spin Orders. <i>Advanced Materials</i> , 2010, 22, 1554-1565.	21.0	564
5	Spin-Driven Ferroelectricity in Triangular Lattice Antiferromagnets $A\text{CrO}_2$	7.8	306
6	Observation of Magnetic Excitations of Skyrmion Crystal in a Helimagnetic Insulator Cu_2OSeO_4 <i>Physical Review Letters</i> , 2012, 109, 037603.	7.8	278
7	Thermally driven ratchet motion of a skyrmion microcrystal and topological magnon Hall effect. <i>Nature Materials</i> , 2014, 13, 241-246.	27.5	268
8	Thermal Generation of Spin Current in an Antiferromagnet. <i>Physical Review Letters</i> , 2015, 115, 266601.	7.8	223
9	Nanometric square skyrmion lattice in a centrosymmetric tetragonal magnet. <i>Nature Nanotechnology</i> , 2020, 15, 444-449.	31.5	192
10	Correlation between Spin Helicity and an Electric Polarization Vector in Quantum-Spin Chain Magnet LiCu_2O	7.8	185
11	Formation of a skyrmion crystal in the chiral-lattice insulator Cu_2OSeO_4	3.2	163
12	Microwave magnetoelectric effect via skyrmion resonance modes in a helimagnetic multiferroic. <i>Nature Communications</i> , 2013, 4, 2391.	12.8	163
13	Impurity-doping-induced ferroelectricity in the frustrated antiferromagnet CuFeO_2	3.2	162
14	Magnetoelectric nature of skyrmions in a chiral magnetic insulator Cu_2OSeO_4	3.2	162
15	Noncentrosymmetric Magnets Hosting Magnetic Skyrmions. <i>Advanced Materials</i> , 2017, 29, 1603227.	21.0	158
16	Controlled transformation of skyrmions and antiskyrmions in a non-centrosymmetric magnet. <i>Nature Nanotechnology</i> , 2020, 15, 181-186.	31.5	110
17	Magnetochiral nonreciprocity of volume spin wave propagation in chiral-lattice ferromagnets. <i>Physical Review B</i> , 2016, 93, .	3.2	109
18	Propagation dynamics of spin excitations along skyrmion strings. <i>Nature Communications</i> , 2020, 11, 256.	12.8	81

#	ARTICLE	IF	CITATIONS
19	Imaging the coupling between itinerant electrons and localised moments in the centrosymmetric skyrmion magnet GdRu2Si2. Nature Communications, 2020, 11, 5925.	12.8	75
20	Transition to and from the skyrmion lattice phase by electric fields in a magnetoelectric compound. Nature Communications, 2016, 7, 12669.	12.8	74
21	Coupled Skyrmion Sublattices in Cu2OSeO3. Physical Review Letters, 2014, 112, 167202.	7.8	71
22	Superconductivity in Cu \times IrTe \times driven by interlayer hybridization. Physical Review B, 2013, 87, .	3.2	70
23	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
24	Cupric chloride \times 2 \times driven by domain rearrangement and spin structural change in triangular lattice helimagnets Ni \times chain and Col \times 2 \times . Physical Review B, 2013, 87, .	3.2	69
25	Induced by domain rearrangement and spin structural change in triangular lattice helimagnets Ni \times chain and Col \times 2 \times . Physical Review B, 2013, 87, .	3.2	66
26	Square and rhombic lattices of magnetic skyrmions in a centrosymmetric binary compound. Nature Communications, 2022, 13, 1472.	12.8	65
27	Dynamical magnetoelectric phenomena of multiferroic skyrmions. Journal of Physics Condensed Matter, 2015, 27, 503001.	1.8	64
28	Magnetic-Field Induced Competition of Two Multiferroic Orders in a Triangular-Lattice Helimagnet Mn \times 2 \times . Physical Review Letters, 2011, 106, 167206.	7.8	62
29	Creation of magnetic skyrmions by surface acoustic waves. Nature Nanotechnology, 2020, 15, 361-366.	31.5	62
30	Emergent topological spin structures in the centrosymmetric cubic perovskite SrFeO \times 3 \times . Physical Review B, 2020, 101, .	3.2	62
31	Phonon Magnetochiral Effect. Physical Review Letters, 2019, 122, 145901.	7.8	61
32	Microwave Magnetochiral Dichroism in the Chiral-Lattice Magnet Cu \times 2 \times OSeO \times . Physical Review Letters, 2015, 114, 197202.	7.8	60
33	Ultrafast optical excitation of magnetic skyrmions. Scientific Reports, 2015, 5, 9552.	3.3	60
34	Magnetochiral dichroism resonant with electromagnons in a helimagnet. Nature Communications, 2014, 5, 4583.	12.8	50
35	Electromagnons in the Spin Collinear State of a Triangular Lattice Antiferromagnet. Physical Review Letters, 2010, 105, 097207.	7.8	49
36	Spin-wave spectroscopy of the Dzyaloshinskii-Moriya interaction in room-temperature chiral magnets hosting skyrmions. Physical Review B, 2017, 95, .	3.2	48

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37	Multiple- <i>q</i> noncollinear magnetism in an itinerant hexagonal magnet. <i>Science Advances</i> , 2018, 4, eaau3402.	10.3	47
38	Zoology of Multiple- <i>Q</i> Spin Textures in a Centrosymmetric Tetragonal Magnet with Itinerant Electrons. <i>Advanced Science</i> , 2022, 9, e2105452.	11.2	42
39	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
40	Magnetic Digital Flop of Ferroelectric Domain with Fixed Spin Chirality in a Triangular Lattice Helimagnet. <i>Physical Review Letters</i> , 2009, 103, 237601.	7.8	36
41	Increased lifetime of metastable skyrmions by controlled doping. <i>Physical Review B</i> , 2019, 100, .	3.2	32
42	Stabilization of magnetic skyrmions by uniaxial tensile strain. <i>Physical Review B</i> , 2017, 96, .	3.2	28
43	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
44	Thermal stability and irreversibility of skyrmion-lattice phases in Cu ₂ OSeO ₃ . <i>Physical Review B</i> , 2017, 95, .	3.2	26
45	Low-Field Bi-Skyrmion Formation in a Noncentrosymmetric Chimney Ladder Ferromagnet. <i>Physical Review Letters</i> , 2018, 120, 037203.	7.8	25
46	Effect of Spin Dilution on the Magnetic State of Delafossite CuCrO ₂ with an <i>S</i> = 3/2 Antiferromagnetic Triangular Sublattice. <i>Journal of the Physical Society of Japan</i> , 2011, 80, 014711.	1.6	24
47	Emergence and magnetic-field variation of chiral-soliton lattice and skyrmion lattice in the strained helimagnet Cu ₂ OSeO ₃ . <i>Physical Review B</i> , 2017, 96, .	3.2	24
48	Electronic structure, magnetic, and dielectric properties of the edge-sharing copper oxide chain compound NaCu_2O_3 . <i>Physical Review B</i> , 2010, 81, 080401.	3.2	23
49	Magnetic Reversal of Electric Polarization with Fixed Chirality of Magnetic Structure in a Chiral-Lattice Helimagnet $\text{MnSb}_6\text{O}_{18}$. <i>Physical Review Letters</i> , 2016, 117, 047201.	7.8	21
50	Bloch Lines Constituting Antiskyrmions Captured via Differential Phase Contrast. <i>Advanced Materials</i> , 2020, 32, e2004206.	21.0	21
51	Magnon-photon coupling in the noncollinear magnetic insulator Cu_2OSeO_3 . <i>Physical Review B</i> , 2019, 99, .	3.2	16
52	Topological defect-mediated skyrmion annihilation in three dimensions. <i>Communications Physics</i> , 2021, 4, .	5.3	16
53	Particle-size dependent structural transformation of skyrmion lattice. <i>Nature Communications</i> , 2020, 11, 5685.	12.8	15
54	Directional electric-field induced transformation from skyrmion lattice to distinct helices in multiferroic Cu_2OSeO_3 . <i>Physical Review B</i> , 2017, 95, .	3.2	14

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73	Structural analysis of high-pressure phase for skyrmion-hosting multiferroic CuMn_2Pn Physical Review B, 2020, 102, .	2.0	0
74	Mechanism of Magnetic Skyrmion Formation in Cubic Systems with 4f Electrons. JPSJ News and Comments, 2021, 18, 10.	0.1	0