

Sae Hwan Chun

List of Publications by Year in descending order

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46
papers

1,533
citations

394421

19
h-index

302126

39
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47
all docs

47
docs citations

47
times ranked

2183
citing authors

#	ARTICLE	IF	CITATIONS
1	Direct evidence for dominant bond-directional interactions in a honeycomb lattice iridate Na ₂ IrO ₃ . Nature Physics, 2015, 11, 462-466.	16.7	321
2	Electric Field Control of Nonvolatile Four-State Magnetization at Room Temperature. Physical Review Letters, 2012, 108, 177201.	7.8	156
3	Realization of Giant Magnetoelectricity in Helimagnets. Physical Review Letters, 2010, 104, 037204.	7.8	144
4	Experimental observation of the liquid-liquid transition in bulk supercooled water under pressure. Science, 2020, 370, 978-982.	12.6	143
5	Electrical control of large magnetization reversal in a helimagnet. Nature Communications, 2014, 5, 4208.	12.8	77
6	Field-induced incommensurate-to-commensurate phase transition in the magnetoelectric hexaferrite Ba ₀ Y ₂ Fe ₁₂ O ₂₂ . New Journal of Physics, 2009, 11, 073030.	3.2	47
7	Mapping the emergence of molecular vibrations mediating bond formation. Nature, 2020, 582, 520-524.	27.8	55
8	Low-magnetic-field control of dielectric constant at room temperature realized in Ba _{0.5} Sr _{1.5} Zn ₂ Fe ₁₂ O ₂₂ . New Journal of Physics, 2009, 11, 073030.	2.9	50
9	Field-induced multiferricity of the Co ₂ Y-type hexaferrite Ba _{0.3} Sr _{0.3} Y ₂ Fe ₁₂ O ₂₂ . Physical Review B, 2010, 82, 014411.	3.2	47
10	High-brightness self-seeded X-ray free-electron laser covering the 3.5â€‰keV to 14.6â€‰keV range. Nature Photonics, 2021, 15, 435-441.	31.4	47
11	Electric polarization enhancement in multiferroic CoCr ₂ O ₄ crystals with Cr-site mixing. Applied Physics Letters, 2009, 94, .	3.3	40
12	Magnetoelectricity in multiferroic hexaferrites as understood by crystal symmetry analyses. Physical Review B, 2018, 98, .	3.2	33
13	Quantitative Measurements of Size-Dependent Magnetoelectric Coupling in Fe ₃ O ₄ Nanoparticles. Nano Letters, 2016, 16, 7408-7413.	9.1	31
14	Subnanosecond phase transition dynamics in laser-shocked iron. Science Advances, 2020, 6, eaaz5132.	10.3	29
15	Chemical doping-induced flop of ferroelectric polarization in multiferroic Mn _{0.9} Fe _{0.1} Y ₂ Fe ₁₂ O ₂₂ . Physical Review B, 2010, 82, .	3.2	26
16	Magnetic Origin of Giant Magnetoelectricity in Doped Y-type Hexaferrite Ba _{0.5} Y _{1.5} Fe ₁₂ O ₂₂ . Physical Review B, 2010, 82, .	3.2	26

#	ARTICLE	IF	CITATIONS
19	Electromagnon with Sensitive Terahertz Magneto-chromism in a Room-Temperature Magnetoelectric Hexaferrite. <i>Physical Review Letters</i> , 2018, 120, 027202.	7.8	19
20	Hard X-ray self-seeding commissioning at PAL-XFEL. <i>Journal of Synchrotron Radiation</i> , 2019, 26, 1101-1109.	2.4	17
21	Observation of new magnetic ground state in frustrated quantum antiferromagnet spin-liquid system Cs ₂ CuCl ₄ . <i>Low Temperature Physics</i> , 2017, 43, 901-904.	0.6	13
22	Magnetic Excitations across the Metal-Insulator Transition in the Pyrochlore Iridate Eu_2O_7 . <i>Physical Review Letters</i> , 2018, 120, 177203.	2.4	12
23	Intense Reactivity in Sulfur-Hydrogen Mixtures at High Pressure under X-ray Irradiation. <i>Journal of Physical Chemistry Letters</i> , 2020, 11, 1828-1834.	4.6	11
24	Optical Kerr Effect of Liquid Acetonitrile Probed by Femtosecond Time-Resolved X-ray Liquidography. <i>Journal of the American Chemical Society</i> , 2021, 143, 14261-14273.	13.7	11
25	Ultrafast Carrier-Lattice Interactions and Interlayer Modulations of Bi ₂ Se ₃ by X-ray Free-Electron Laser Diffraction. <i>Nano Letters</i> , 2021, 21, 8554-8562.	9.1	10
26	Recent Progress of the PAL-XFEL. <i>Applied Sciences (Switzerland)</i> , 2022, 12, 1010.	2.5	10
27	X-ray free electron laser heating of water and gold at high static pressure. <i>Communications Materials</i> , 2021, 2, .	6.9	9
28	Control of magnetoelectric coupling in the CoMn_2Y -type hexaferrites. <i>Physical Review Materials</i> , 2021, 5, .	2.4	8
29	Following the Crystallization of Amorphous Ice after Ultrafast Laser Heating. <i>Journal of Physical Chemistry B</i> , 2022, 126, 2299-2307.	2.6	8
30	⁵⁷ Fe NMR study of the magnetoelectric hexaferrite Ba _{0.5} Sr _{1.5} Zn ₂ Fe ₁₂ O ₂₂ and Ba _{0.5} Sr _{1.5} Zn ₂ (Fe _{0.92} Al _{0.08}) ₁₂ O ₂₂ . <i>Physical Review B</i> , 2013, 88, .	3.2	7
31	Competing Magnetic Anisotropy Fields and Double Polarization Flops in Multiferroic Mn _{1-x} Co _x WO ₄ . <i>Journal of the Physical Society of Japan</i> , 2013, 82, 124716.	1.6	6
32	Field- and temperature-induced evolution of the magnetocaloric effect in Ba _{0.3} Sr _{1.7} Co ₂ Fe ₁₂ O ₂₂ single crystals with heliconal magnetism. <i>Journal of Physics Condensed Matter</i> , 2013, 25, 256006.	1.8	6
33	Controlling symmetry of spin-orbit entangled pseudospin state through uniaxial strain. <i>Physical Review B</i> , 2020, 102, .	3.2	6
34	Publisher's Note: Realization of Giant Magnetoelectricity in Helimagnets [Phys. Rev. Lett. 104, 037204 (2010)]. <i>Physical Review Letters</i> , 2010, 104, .	7.8	5
35	Effects of Al substitution and thermal annealing on magnetoelectric Ba _{0.5} Sr _{1.5} Zn ₂ Fe ₁₂ O ₂₂ investigated by the enhancement factor of ⁵⁷ Fe nuclear magnetic resonance. <i>Journal of Physics Condensed Matter</i> , 2014, 26, 146004.	1.8	5
36	Non-thermal fluence threshold for femtosecond pulsed x-ray radiation damage in perovskite complex oxide epitaxial heterostructures. <i>Applied Physics Letters</i> , 2019, 115, .	3.3	5

#	ARTICLE	IF	CITATIONS
37	Optical magnons with dominant bond-directional exchange interactions in the honeycomb lattice iridate $\text{A}_2\text{B}_4\text{X}_6$. Physical Review B, 2021, 103.	3.2	5
38	Robust long-range magnetic correlation across antiphase domain boundaries in $\text{Sr}_2\text{CrReO}_6$. Physical Review B, 2021, 103, .	3.2	5
39	Structural Evidence for Ultrafast Polarization Rotation in Ferroelectric/Dielectric Superlattice Nanodomains. Physical Review X, 2021, 11, .	8.9	5
40	Commensurate transverse helical ordering in the room-temperature magnetoelectric Co_2Z hexaferrite. Physica B: Condensed Matter, 2018, 551, 122-126.	2.7	4
41	Magnetic excitations in the double-perovskite iridates $\text{A}_2\text{B}_4\text{X}_6$		