

David Szaller

List of Publications by Year in descending order

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Version: 2024-02-01

24
papers

675
citations

687335

13
h-index

610883

24
g-index

24
all docs

24
docs citations

24
times ranked

870
citing authors

#	ARTICLE	IF	CITATIONS
1	Chirality of matter shows up via spin excitations. Nature Physics, 2012, 8, 734-738.	16.7	128
2	One-way transparency of four-coloured spin-wave excitations in multiferroic materials. Nature Communications, 2014, 5, 3203.	12.8	94
3	Malaria pigment crystals as magnetic micro-rotors: key for high-sensitivity diagnosis. Scientific Reports, 2013, 3, 1431.	3.3	71
4	Symmetry conditions for nonreciprocal light propagation in magnetic crystals. Physical Review B, 2013, 87, .	3.2	70
5	Spin-Stretching Modes in Anisotropic Magnets: Spin-Wave Excitations in the Multiferroic $\text{Ba}_2\text{CoGe}_2\text{O}_7$. Physical Review Letters, 2013, 110, 057202.	3.2	30
6	Lattice modes and the Jahn-Teller ferroelectric transition of GaV_4S_8 . Physical Review B, 2016, 94, .	3.2	30
7	Effect of spin excitations with simultaneous magnetic- and electric-dipole character on the static magnetoelectric properties of multiferroic materials. Physical Review B, 2014, 89, .	3.2	26
8	Confirming the trilinear form of the optical magnetoelectric effect in the polar honeycomb antiferromagnet $\text{Co}_2\text{Mo}_3\text{O}_8$. Npj Quantum Materials, 2022, 7, .	5.2	26
9	Switching of Magnons by Electric and Magnetic Fields in Multiferroic Borates. Physical Review Letters, 2018, 120, 027203.	7.8	25
10	Evolution of two-dimensional antiferromagnetism with temperature and magnetic field in multiferroic $\text{Ba}_2\text{CoGe}_2\text{O}_7$. Physical Review B, 2014, 89, .	3.2	20
11	Spin excitations in the skyrmion host Cu_2OSeO_3 . Physical Review B, 2016, 93, .	3.2	16
12	Optical conductivity in multiferroic GaV_4S_8 and S_8 .	3.2	16
13	Unusual magnetoelectric effect in paramagnetic rare-earth langasite. Npj Quantum Materials, 2020, 5, .	5.2	15
14	Directional dichroism in the paramagnetic state of multiferroics: A case study of infrared light absorption in $\text{Sr}_2\text{CoSi}_2\text{O}_7$ at high temperatures. Physical Review B, 2019, 99, .	3.2	12
15	Spin excitations of magnetoelectric LiNiPO_4 in multiple magnetic phases. Physical Review B, 2019, 100, .	3.2	11
16	Magnetic resonances of multiferroic $\text{TbFe}_3\text{Mn}_2\text{O}_{10}$. Physical Review B, 2017, 95, .	3.2	11
17	Change paths for octahedrally and tetrahedrally coordinated Mn^{2+} ions in the honeycomb multiferroic Mn_2O_7 . Physical Review B, 2020, 102, .	3.2	9
18	Squeezing the periodicity of Néel-type magnetic modulations by enhanced Dzyaloshinskii-Moriya interaction of 4d electrons. Npj Quantum Materials, 2022, 7, .	5.2	9

#	ARTICLE	IF	CITATIONS
19	Sign change of polarization rotation under time or space inversion in magnetoelectric YbAlO_3 . Physical Review B, 2019, 99, .	3.2	8
20	Magnetoelastic distortion of multiferroic BiFeO_3 in the canted antiferromagnetic state. Physical Review B, 2020, 102, .	3.2	6
21	Magnetic structure of the magnetoelectric material Ca_2O_7 . Physical Review B, 2017, 95, .	3.2	4
22	Controlling of light with electromagnons. ChemistrySelect, 2020, 5, .	1.5	4
23	Magnetic equivalent of electric superradiance in yttrium-iron-garnet films. Communications Physics, 2021, 4, .	5.3	2
24	Selection rules and dynamic magnetoelectric effect of the spin waves in multiferroic BiFeO_3 . Physical Review B, 2021, 104, .	3.2	2