

David Szaller

List of Publications by Citations

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Version: 2024-04-28

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

21
papers

489
citations

11
h-index

22
g-index

24
ext. papers

606
ext. citations

5
avg. IF

3.02
L-index

#	Paper	IF	Citations
21	Chirality of matter shows up via spin excitations. <i>Nature Physics</i> , 2012 , 8, 734-738	16.2	103
20	One-way transparency of four-coloured spin-wave excitations in multiferroic materials. <i>Nature Communications</i> , 2014 , 5, 3203	17.4	75
19	Malaria pigment crystals as magnetic micro-rotors: key for high-sensitivity diagnosis. <i>Scientific Reports</i> , 2013 , 3, 1431	4.9	59
18	Symmetry conditions for nonreciprocal light propagation in magnetic crystals. <i>Physical Review B</i> , 2013 , 87,	3.3	54
17	Spin-stretching modes in anisotropic magnets: spin-wave excitations in the multiferroic Ba ₂ CoGe ₂ O ₇ . <i>Physical Review Letters</i> , 2012 , 108, 257203	7.4	48
16	Lattice modes and the Jahn-Teller ferroelectric transition of GaV ₄ S ₈ . <i>Physical Review B</i> , 2016 , 94,	3.3	27
15	Effect of spin excitations with simultaneous magnetic- and electric-dipole character on the static magnetoelectric properties of multiferroic materials. <i>Physical Review B</i> , 2014 , 89,	3.3	22
14	Switching of Magnons by Electric and Magnetic Fields in Multiferroic Borates. <i>Physical Review Letters</i> , 2018 , 120, 027203	7.4	19
13	Spin excitations in the skyrmion host Cu ₂ OSeO ₃ . <i>Physical Review B</i> , 2016 , 93,	3.3	14
12	Optical conductivity in multiferroic GaV ₄ S ₈ and GeV ₄ S ₈ : Phonons and electronic transitions. <i>Physical Review B</i> , 2017 , 96,	3.3	13
11	Evolution of two-dimensional antiferromagnetism with temperature and magnetic field in multiferroic Ba ₂ CoGe ₂ O ₇ . <i>Physical Review B</i> , 2014 , 89,	3.3	13
10	Magnetic resonances of multiferroic TbFe ₃ (BO ₃) ₄ . <i>Physical Review B</i> , 2017 , 95,	3.3	8
9	Spin excitations of magnetoelectric LiNiPO ₄ in multiple magnetic phases. <i>Physical Review B</i> , 2019 , 100,	3.3	8
8	Directional dichroism in the paramagnetic state of multiferroics: A case study of infrared light absorption in Sr ₂ CoSi ₂ O ₇ at high temperatures. <i>Physical Review B</i> , 2019 , 99,	3.3	8
7	Sign change of polarization rotation under time or space inversion in magnetoelectric YbAl ₃ (BO ₃) ₄ . <i>Physical Review B</i> , 2019 , 99,	3.3	6
6	Controlling of light with electromagnons. <i>ChemistrySelect</i> , 2020 , 5,	1.8	3
5	Unusual magnetoelectric effect in paramagnetic rare-earth langasite. <i>Npj Quantum Materials</i> , 2020 , 5,	5	3

4	Magnetic anisotropy and exchange paths for octahedrally and tetrahedrally coordinated Mn ²⁺ ions in the honeycomb multiferroic Mn ₂ Mo ₃ O ₈ . <i>Physical Review B</i> , 2020 , 102,	3-3	2
3	Squeezing the periodicity of Néel-type magnetic modulations by enhanced Dzyaloshinskii-Moriya interaction of 4d electrons. <i>Npj Quantum Materials</i> , 2022 , 7,	5	2
2	Magnetoelastic distortion of multiferroic BiFeO ₃ in the canted antiferromagnetic state. <i>Physical Review B</i> , 2020 , 102,	3-3	1
1	Magnetic structure of the magnetoelectric material Ca ₂ CoSi ₂ O ₇ . <i>Physical Review B</i> , 2017 , 95,	3-3	1