

Sãndor Bordãcs

List of Publications by Year in descending order

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Version: 2024-02-01

57
papers

2,420
citations

249298

26
h-index

223390

49
g-index

57
all docs

57
docs citations

57
times ranked

3023
citing authors

#	ARTICLE	IF	CITATIONS
1	Confirming the trilinear form of the optical magnetoelectric effect in the polar honeycomb antiferromagnet Co ₂ Mo ₃ O ₈ . Npj Quantum Materials, 2022, 7, .	1.8	26
2	Squeezing the periodicity of N�el-type magnetic modulations by enhanced Dzyaloshinskii-Moriya interaction of 4d electrons. Npj Quantum Materials, 2022, 7, .	1.8	9
3	In�Situ Electric-Field Control of THz Nonreciprocal Directional Dichroism in the Multiferroic Ba ₂ CoGe ₂ O ₇ . Physical Review Letters, 2021, 127, 157201.	2.9	3
4	Selection rules and dynamic magnetoelectric effect of the spin waves in multiferroic $\langle \text{Bi} \rangle \langle \text{Fe} \rangle \langle \text{O} \rangle \langle \text{Mn} \rangle \langle \text{Mn} \rangle \langle \text{Mn} \rangle$. Physical Review B, 2021, 104, .	1.1	2
5	Change paths for octahedrally and tetrahedrally coordinated Mn ions in the honeycomb multiferroic $\langle \text{Mn} \rangle \langle \text{Mn} \rangle \langle \text{Mn} \rangle \langle \text{Mn} \rangle \langle \text{Mn} \rangle \langle \text{Mn} \rangle$. Physical Review B, 2020, 102, .	1.1	9
6	Macroscopic manifestation of domain-wall magnetism and magnetoelectric effect in a N�el-type skyrmion host. Npj Quantum Materials, 2020, 5, .	1.8	20
7	Stability of N�el-type skyrmion lattice against oblique magnetic fields in $\langle \text{Ga} \rangle \langle \text{V} \rangle \langle \text{S} \rangle \langle \text{Mn} \rangle \langle \text{Mn} \rangle \langle \text{Mn} \rangle$ and $\langle \text{Ga} \rangle \langle \text{V} \rangle \langle \text{S} \rangle \langle \text{Mn} \rangle \langle \text{Mn} \rangle \langle \text{Mn} \rangle$.	1.1	11
8	Magnetoelastic distortion of multiferroic $\langle \text{Bi} \rangle \langle \text{Fe} \rangle \langle \text{O} \rangle \langle \text{Mn} \rangle \langle \text{Mn} \rangle \langle \text{Mn} \rangle$ in the canted antiferromagnetic state. Physical Review B, 2020, 102, .	1.1	6
9	Spin excitations of magnetoelectric $\langle \text{LiNiPO} \rangle \langle \text{LiNiPO} \rangle \langle \text{LiNiPO} \rangle \langle \text{LiNiPO} \rangle \langle \text{LiNiPO} \rangle \langle \text{LiNiPO} \rangle$ in multiple magnetic phases. Physical Review B, 2019, 100, .	1.1	11
10	Magnetoelectric spectroscopy of spin excitations in LiCoPO ₄ . Physical Review B, 2019, 100, .	1.1	5
11	Optically Driven Collective Spin Excitations and Magnetization Dynamics in the N�el-type Skyrmion Host $\langle \text{Ga} \rangle \langle \text{V} \rangle \langle \text{S} \rangle \langle \text{Mn} \rangle \langle \text{Mn} \rangle \langle \text{Mn} \rangle$.	1.1	20
12	Microwave Directional Dichroism Resonant with Spin Excitations in the Polar Ferromagnet $\langle \text{Ga} \rangle \langle \text{V} \rangle \langle \text{S} \rangle \langle \text{Mn} \rangle \langle \text{Mn} \rangle \langle \text{Mn} \rangle$. Physical Review Letters, 2019, 122, 057202.	1.1	12
13	Limits of validity of the Rashba model in BiTeI: High-field magneto-optical study. Physical Review B, 2019, 100, .	1.1	1
14	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. Physical Review B, 2019, 99, .	1.1	12
15	Magnetic Field Control of Cycloidal Domains and Electric Polarization in Multiferroic $\langle \text{Bi} \rangle \langle \text{Fe} \rangle \langle \text{O} \rangle \langle \text{Mn} \rangle \langle \text{Mn} \rangle \langle \text{Mn} \rangle$. Physical Review Letters, 2018, 120, 147203.	2.9	15
16	Direct evidence for cycloidal modulations in the thermal-fluctuation-stabilized spin spiral and skyrmion states of $\langle \text{Ga} \rangle \langle \text{V} \rangle \langle \text{S} \rangle \langle \text{Mn} \rangle \langle \text{Mn} \rangle \langle \text{Mn} \rangle$.	1.1	28
17	Physical Review B, 2019, 99, .	1.1	12
18	The effect of the flexibility of hydrogen bonding network on low-frequency motions of amino acids. Evidence from Terahertz spectroscopy and DFT calculations. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2018, 191, 8-15.	2.0	18

#	ARTICLE	IF	CITATIONS
19	Architecture of nanoscale ferroelectric domains in GaMo ₄ S ₈ . Journal of Physics Condensed Matter, 2018, 30, 445402.	0.7	17
20	Exfoliation of single layer BiTeI flakes. 2D Materials, 2018, 5, 031013.	2.0	34
21	Identification of Antiferromagnetic Domains Via the Optical Magnetoelectric Effect. Physical Review Letters, 2018, 121, 057601.	2.9	28
22	Magnetic resonances of multiferroic TbFeO_3 . Physical Review B, 2017, 95, .	1.1	16
23	Characteristics of ferroelectric-ferroelastic domains in NaCl -type skyrmion host GaV ₄ S ₈ . Scientific Reports, 2017, 7, 44663.	1.6	41
24	Competing exchange interactions in multiferroic and ferrimagnetic $\text{CaBaCo}_4\text{O}_7$. Physical Review B, 2017, 95, .	1.1	16
25	Equilibrium Skyrmion Lattice Ground State in a Polar Easy-plane Magnet. Scientific Reports, 2017, 7, 7584.	1.1	16
26	Relaxation dynamics of modulated magnetic phases in the skyrmion host GaV_4S_8 : An ac magnetic susceptibility study. Physical Review B, 2017, 96, .	1.1	12
27	On the multiferroic skyrmion-host GaV_4S_8 . Philosophical Magazine, 2017, 97, 3428-3445.	0.7	40
28	Lattice modes and the Jahn-Teller ferroelectric transition of GaV_4S_8 . Physical Review B, 2016, 94, .	1.1	30
29	Magnetoelectric effect and magnetic phase diagram of a polar ferrimagnet $\text{CaBaFe}_4\text{O}_7$. Physical Review B, 2016, 93, .	1.1	19
30	Two-Dimensional Valley Electrons and Excitons in Noncentrosymmetric Bi_2Te_3 . Physical Review Applied, 2015, 4, .	1.5	43
31	Spin-induced polarizations and nonreciprocal directional dichroism of the room-temperature multiferroic BiFeO_3 . Physical Review B, 2015, 92, .	1.1	23
32	Unidirectional terahertz light absorption in the pyroelectric ferrimagnet $\text{CaBaCo}_4\text{O}_7$. Physical Review B, 2015, 92, .	1.1	30
33	Optical Diode Effect at Spin-Wave Excitations of the Room-Temperature Multiferroic BiFeO_3 . Physical Review Letters, 2015, 115, 127203.	2.9	65
34	Multiferroicity and skyrmions carrying electric polarization in GaV_4S_8 . Science Advances, 2015, 1, e1500916.	4.7	136
35	NaCl -type skyrmion lattice with confined orientation in the polar magnetic semiconductor GaV_4S_8 . Nature Materials, 2015, 14, 1116-1122.	13.3	523

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37	Novel optical properties of spin-wave excitations in non-centrosymmetric oxides: the case of Ba ₂ CoGe ₂ O ₇ . Springer Proceedings in Physics, 2015, , 89-91.	0.1	0
38	Effect of spin excitations with simultaneous magnetic- and electric-dipole character on the static magnetoelectric properties of multiferroic materials. Physical Review B, 2014, 89, .	1.1	26
39	One-way transparency of four-coloured spin-wave excitations in multiferroic materials. Nature Communications, 2014, 5, 3203.	5.8	94
40	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, .	1.1	20
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55	An alternative of spectroscopic ellipsometry: The double-reference method. Applied Physics Letters, 2008, 92, 131104.	1.5	0
56	High-pressure infrared spectroscopy: Tuning of the low-energy excitations in correlated electron systems. Physical Review B, 2007, 76, .	1.1	5
57	Compression of Langmuir Films Composed of Fine Particles: Collapse Mechanism and Wettability. Langmuir, 2006, 22, 6944-6950.	1.6	41