SÃ¡ndor BordÃ¡cs

List of Publications by Year
in descending order

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		218662	197805
57	2,420	26	49
papers	citations	h-index	g-index

57	57	57	2754
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	NÃ©el-type skyrmion lattice with confined orientation in the polar magnetic semiconductorÂGaV4S8. Nature Materials, 2015, 14, 1116-1122.	27.5	523
2	Enhanced Directional Dichroism of Terahertz Light in Resonance with Magnetic Excitations of the Multiferroic<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mi>Ba</mml:mi><mml:mn>2</mml:mn></mml:msub><mml:msub><mml:mi>CoGe</mml:mi><mml:mi><mml mathvariant="normal">O</mml:mi><mml:mn>7</mml:mn></mml:msub></mml:math>Oxide Compound. Physical Review Letters, 2011, 106, 057403.	7.6	158
3	Multiferroicity and skyrmions carrying electric polarization in GaV ₄ S ₈. Science Advances, 2015, 1, e1500916.	10.3	136
4	Chirality of matter shows up via spin excitations. Nature Physics, 2012, 8, 734-738.	16.7	128
5	Magnetoelasticity in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>A</mml:mi></mml:math>Cr<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mn>2</mml:mn></mml:msub></mml:math>O<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow		

#	ARTICLE	IF	CITATIONS
19	Unidirectional terahertz light absorption in the pyroelectric ferrimagnet<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>CaBaCo</mml:mi><mml:mn>4</mml:mn></ mathvariant="normal">O</mml:mi><mml:mn>7</mml:mn></mml:msub></mml:mrow></mml:math>. Physical Review B, 2015, 92, .	3.2	30
20	Lattice modes and the Jahn-Teller ferroelectric transition of<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>GaV</mml:mi><mml:mn>4</mml:mn></mml:mm mathvariant="normal">S</mml:mi><mml:mn>8</mml:mn></mml:msub></mml:mrow></mml:math>. Physical Review B, 2016, 94, .	3.2	30
21	Direct evidence for cycloidal modulations in the thermal-fluctuation-stabilized spin spiral and skyrmion states of <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>GaV</mml:mi><mml:mn>4</mml:mn></mml:msub><mml:msub><mml:mi mathvariant="normal">S</mml:mi><mml:mn>8</mml:mn></mml:msub></mml:mrow></mml:math>. Physical Review B, 2018, 97, .	3.2	28
22	Identification of Antiferromagnetic Domains Via the Optical Magnetoelectric Effect. Physical Review Letters, 2018, 121, 057601.	7.8	28
23	Disorder Promotes Ferromagnetism: Rounding of the Quantum Phase Transition inSr1âˆ'xCaxRuO3. Physical Review Letters, 2012, 108, 185701.	7.8	27
24	Determination of the magnetic order and the crystal symmetry in the multiferroic ground state of Ba<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mn>2</mml:mn></mml:msub></mml:math>CoGe<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mn>2</mml:mn></mml:msub></mml:math>O<mml:math xmlns:mml="http://www.w3.org/1998/Ma	3.2	27
25	Landau Level Spectroscopy of Dirac Electrons in a Polar Semiconductor with Giant Rashba Spin Splitting. Physical Review Letters, 2013, 111, 166403.	7.8	27
26	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
27	Confirming the trilinear form of the optical magnetoelectric effect in the polar honeycomb antiferromagnet Co2Mo3O8. Npj Quantum Materials, 2022, 7, .	5.2	26
28	Spin-induced polarizations and nonreciprocal directional dichroism of the room-temperature multiferroic<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi mathvariant="normal">BiFeO</mml:mi><mml:mn>3</mml:mn></mml:msub></mml:math>. Physical Review B, 2015, 92, .	3.2	23
29	Experimental band structure of the nearly half-metallic CuCr₂Se₄: an optical and magneto-optical study. New Journal of Physics, 2010, 12, 053039.	2.9	22
30	Evolution of two-dimensional antiferromagnetism with temperature and magnetic field in multiferroic<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mtext>Ba</mml:mtext><mml:mn>2</mml:mn></mml:msub></mml:math>. Physical Review B, 2014, 89, .	3.2	20
31	Optically Driven Collective Spin Excitations and Magnetization Dynamics in the NÃ©el-type Skyrmion Host <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mi>GaV</mml:mi></mml:mrow><mml:mrow><mml:mn>4</mml:mn></mml:mrow></mml:msub><mml:msub><mml:mrow><mml:mi mathvariant="normal">S</mml:mi></mml:mrow><mml:mrow><mml:mn>8</mml:mn></mml:mrow></mml:msub></mml:mrow></mml:math>. Physical Review Letters, 2019, 122, 107203.	7.8	20
32	Macroscopic manifestation of domain-wall magnetism and magnetoelectric effect in a NÃ©el-type skyrmion host. Npj Quantum Materials, 2020, 5, .	5.2	20
33	Magnetoelectric effect and magnetic phase diagram of a polar ferrimagnet<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>CaBaFe</mml:mi><mml:mn>4</mml:mn></mml:mm mathvariant="normal">O</mml:mi><mml:mn>7</mml:mn></mml:msub></mml:mrow></mml:math>. Physical Review B, 2016, 93, .	3.2	19
34	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.	3.9	18
35	Architecture of nanoscale ferroelectric domains in GaMo₄S₈. Journal of Physics Condensed Matter, 2018, 30, 445402.	1.8	17
36	Competing exchange interactions in multiferroic and ferrimagnetic <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>CaBaCo</mml:mi><mml:mn>4</mml:mn></mml:mn></ mathvariant="normal">O</mml:mi><mml:mn>7</mml:mn></mml:msub></mml:mrow></mml:math>. Physical Review B, 2017, 95, .	3.2	16

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37	conductivity in multiferroic <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>GaV</mml:mi><mml:mn>4</mml:mn></mml:msub><mml:msub><mml:mi mathvariant="normal">S</mml:mi><mml:mn>8</mml:mn></mml:msub></mml:mrow></mml:math> and <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>GeV</mml:mi><mml:mn>4</mml:mn></mml:msub>	3.2	16
38	Magnetic Field Control of Cycloidal Domains and Electric Polarization in Multiferroic <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mi>BiFeO</mml:mi></mml:mrow><mml:mn>3</mml:mn></mml:msub></mml:mrow></mml:math>. Physical Review Letters, 2018, 120, 147203.	7.8	15
39	Relaxation dynamics of modulated magnetic phases in the skyrmion host <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>GaV</mml:mi><mml:mn>4</mml:mn></mml:msub><mml:msub><mml:mi mathvariant="normal">S</mml:mi><mml:mn>8</mml:mn></mml:msub></mml:mrow></mml:math> : An ac magnetic susceptibility study. Physical Review B, 2017, 96, .	3.2	12
40	Strong magneto-optical effects in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>A</mml:mi><mml:mi>Cr</mml:mi><mml:mn>4</mml:mn></mml:msub><mml:msub><mml:mi mathvariant="normal">O</mml:mi><mml:mn>4</mml:mn></mml:msub></mml:mrow></mml:math> () Tj ETQq0 0 0 rgBT /Overlock 10	3.2	12
41	Microwave Directional Dichroism Resonant with Spin Excitations in the Polar Ferromagnet <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mi>GaV</mml:mi><mml:msub><mml:mi mathvariant="normal">S</mml:mi><mml:mn>8</mml:mn></mml:msub></mml:mrow></mml:math>. Physical Review Letters, 2019, 122, 057202.	7.8	12
42	Directional dichroism in the paramagnetic state of multiferroics: A case study of infrared light absorption in Sr2CoSi2O7 at high temperatures. Physical Review B, 2019, 99, .	3.2	12
43	Spin excitations of magnetoelectric <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>LiNiPO</mml:mi><mml:msub><mml:mrow /><mml:mn>4</mml:mn></mml:msub></mml:mrow></mml:math> in multiple magnetic phases. Physical Review B, 2019, 100, .	3.2	11
44	Stability of NÃ©el-type skyrmion lattice against oblique magnetic fields in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>Ga</mml:mi><mml:msub><mml:mi mathvariant="normal">V</mml:mi><mml:mn>4</mml:mn></mml:msub><mml:msub><mml:mi mathvariant="normal">S</mml:mi><mml:mn>8</mml:mn></mml:msub></mml:mrow></mml:math> and <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>Ga</mml:mi><mml:msub><mml:mi>	3.2	11
45	Optical Probe for Anomalous Hall Resonance in Ferromagnets with Spin Chirality. Physical Review Letters, 2009, 103, 267206.	7.8	10
46	Magnetic resonances of multiferroic <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>TbFe</mml:mi><mml:mn>3</mml:mn></mml:msub></mml:mrow></mml:math>. Physical Review B, 2017, 95, .	3.2	10
47	Magnetic anisotropy and exchange paths for octahedrally and tetrahedrally coordinated <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msup><mml:mi mathvariant="normal">Mn</mml:mi><mml:mrow><mml:mn>2</mml:mn><mml:mo>+</mml:mo></mml:mrow></mml:msup></mml:math> ions in the honeycomb multiferroic <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>Mn</mml:mi><mml:mn>2</mml:mn></mml:mrow></mml:math>. Physical Review B, 2020, 102, .	3.2	9
48	Squeezing the periodicity of NÃ©el-type magnetic modulations by enhanced Dzyaloshinskii-Moriya interaction of 4d electrons. Npj Quantum Materials, 2022, 7, .	5.2	9
49	Improved thermal relaxation method for the simultaneous measurement of the specific heat and thermal conductivity. European Physical Journal B, 2010, 74, 27-33.	1.5	7
50	Magnetoelastic distortion of multiferroic <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi mathvariant="normal">BiFeO</mml:mi><mml:mn>3</mml:mn></mml:msub></mml:math> in the canted antiferromagnetic state. Physical Review B, 2020, 102, .	3.2	6
51	High-pressure infrared spectroscopy: Tuning of the low-energy excitations in correlated electron systems. Physical Review B, 2007, 76, .	3.2	5
52	Magnetoelectric spectroscopy of spin excitations in LiCoPO4. Physical Review B, 2019, 100, .	3.2	5
53	InÂSitu Electric-Field Control of THz Nonreciprocal Directional Dichroism in the Multiferroic Ba2CoGe2O7. Physical Review Letters, 2021, 127, 157201.	7.8	3
54	Selection rules and dynamic magnetoelectric effect of the spin waves in multiferroic <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>Bi</mml:mi><mml:mi>Fe</mml:mi><mml:msub><mml:mi mathvariant="normal">O</mml:mi><mml:mn>3</mml:mn></mml:msub></mml:mrow></mml:math>. Physical Review B, 2021, 104, .	3.2	2

#	ARTICLE	IF	CITATIONS
55	Limits of validity of the Rashba model in BiTeI: High-field magneto-optical study. Physical Review B, 2019, 100, .	3.2	1
56	An alternative of spectroscopic ellipsometry: The double-reference method. Applied Physics Letters, 2008, 92, 131104.	3.3	0
57	Novel optical properties of spin-wave excitations in non-centrosymmetric oxides: the case of Ba2CoGe2O7. Springer Proceedings in Physics, 2015, , 89-91.	0.2	0