Dmitry Novoselov

List of Publications by Year
in descending order

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27	345	1040056 9	839539 18
papers	citations	h-index	g-index

27	27	27	459
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Spin state transition and covalent bonding in LaCoO<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mn>3</mml:mn></mml:msub></mml:math>. Physical Review B, 2012, 86, .	3.2	88
2	The 2021 room-temperature superconductivity roadmap. Journal of Physics Condensed Matter, 2022, 34, 183002.	1.8	79
3	Electronic correlations and crystal structure distortions in BaBiO₃. Journal of Physics Condensed Matter, 2012, 24, 415603.	1.8	27
4	Magnetic properties of RCoO3 cobaltites (Râ€¯=â€¯La, Pr, Nd, Sm, Eu). Effects of hydrostatic and chemical pressure. Physica B: Condensed Matter, 2019, 553, 80-87.	2.7	17
5	Interplay between the Coulomb Interaction and Hybridization in Ca and Anomalous Pressure Dependence of the Resistivity. JETP Letters, 2019, 109, 387-391.	1.4	11
6	Paraorbital ground state of the trivalent Ni ion in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi>LiNiO</mml:mi><mml:mn>2</mml:mn></mml:msub></m from DFT+DMFT calculations. Physical Review B, 2019, 99, .	3.2	11
7	Strong electronic correlations in interstitial magnetic centers of zero-dimensional electride <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mi>Î²</mml:mi><mml:mo>â^'</mml:mo><mml:mrow><mml:msub><mml:mi Physical Review B, 2021, 103, .	3.2	11
8	Weak Coulomb correlations stabilize the electride high-pressure phase of elemental calcium. Journal of Physics Condensed Matter, 2020, 32, 445501.	1.8	10
9	Hellmannâ€“Feynman forces within the DFT +Uin Wannier functions basis. Journal of Physics Condensed Matter, 2015, 27, 325602.	1.8	9
10	Pressure effect on magnetic susceptibility of LaCoO3. Low Temperature Physics, 2018, 44, 328-333.	0.6	9
11	Correlation effects and phonon modes softening with doping in Ba_{1â^'x}K_xBiO₃. Journal of Physics Condensed Matter, 2014, 26, 195602.	1.8	8
12	Spin state transition in the active center of the hemoglobin molecule: DFT + DMFT study. JETP Letters, 2016, 103, 658-662.	1.4	8
13	Interacting Electrons in Two-Dimensional Electride Ca2N. Journal of Physical Chemistry C, 2021, 125, 15724-15729.	3.1	8
14	Lattice and spin excitations of <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi mathvariant="normal">Y</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> : A Raman and density functional theory study. Physical Review B, 2020, 102, .	3.2	6
15	Correlations induced orbital ordering and cooperative Jahnâ€“Teller distortion in the paramagnetic insulator KCrF3. JETP Letters, 2016, 103, 573-576.	1.4	5
16	Manifold of spin states and dynamical temperature effects in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi>LaCoO</mml:mi><mml:mn>3</mml:mn></mml:msub></m : Experimental and theoretical insights. Physical Review B, 2019, 100, .	3.2	5
17	Charge and spin degrees of freedom in strongly correlated systems: Mott states opposite Hundâ€™s metals. Journal of Physics Condensed Matter, 2020, 32, 235601.	1.8	5
18	Novel copper fluoride analogs of cuprates. Physical Chemistry Chemical Physics, 2021, 23, 15989-15993.	2.8	5

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19	Spin <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>S</mml:mi><mml:mspace width="0.16em" /><mml:mo>=</mml:mo><mml:mspace width="0.16em" /><mml:mn>1</mml:mn></mml:mrow></mml:math> and <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>S</mml:mi><mml:mspace width="0.16em" /><mml:mo>=</mml:mo><mml:mspace width="0.16em" /><mml:mn>1</mml:mn></mml:mrow></mml:math> antiferromagnetic insulator.	3.2	5
20	Correlated oxygen displacements and phonon mode changes in LaCoO3 single crystal. Physica B: Condensed Matter, 2018, 536, 597-599.	2.7	4
21	Phonon mode softening and elastic properties of hafnium under pressure. Physical Review B, 2018, 97, .	3.2	4
22	Spectral properties of LiFeAs: An LDA+DMFT study. JETP Letters, 2012, 96, 118-122.	1.4	3
23	Anomalous behavior of displacement correlation function and strain in lanthanum cobalt oxide analyzed both from X-ray powder diffraction and EXAFS data. Powder Diffraction, 2017, 32, S151-S154.	0.2	3
24	Features of the electronic structure of the active center of an HbS molecule. Russian Journal of Physical Chemistry A, 2016, 90, 113-116.	0.6	2
25	Doping and pressure-driven structural transition in BiMnO<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline" id="d1e461" altimg="si72.svg"><mml:msub><mml:mrow /><mml:mrow><mml:mn>3</mml:mn><mml:mo>+</mml:mo><mml:mi>Î´</mml:mi></mml:mrow></mml:msub></mml:math> from first principles. Physica B: Condensed Matter, 2021, 619, 413242.	2.7	1
26	Pressure-induced structural and magnetic phase transitions in La0.75Ba0.25CoO2.9 studied with scattering methods and first-principle calculations. Physical Review B, 2021, 104, .	3.2	1
27	Anomalous temperature and symmetry-dependent electronic excitations in GdB6. Journal of Alloys and Compounds, 2021, 881, 160507.	5.5	0