

Oleg O Brovko

List of Publications by Year in descending order

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28
papers

514
citations

759233

12
h-index

642732

23
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28
all docs

28
docs citations

28
times ranked

895
citing authors

#	ARTICLE	IF	CITATIONS
1	Mechanical dissipation from charge and spin transitions in oxygen-deficient SrTiO ₃ surfaces. Nature Communications, 2018, 9, 2946.	12.8	16
2	Gate control of spin-polarized conductance in alloyed transitional metal nanocontacts. Physical Review B, 2017, 95, .	3.2	1
3	Potential energy-driven spin manipulation via a controllable hydrogen ligand. Science Advances, 2017, 3, e1602060.	10.3	13
4	Controlling the magnetism of oxygen surface vacancies in SrTiO ₃ through charging. Physical Review Materials, 2017, 1, .	2.4	15
5	Quantum engineering of spin and anisotropy in magnetic molecular junctions. Nature Communications, 2015, 6, 8536.	12.8	68
6	Controlling magnetism on metal surfaces with non-magnetic means: electric fields and surface charging. Journal of Physics Condensed Matter, 2014, 26, 093001.	1.8	42
7	Effect of mesoscopic misfit on growth, morphology, electronic properties and magnetism of nanostructures at metallic surfaces. Surface Science Reports, 2014, 69, 159-195.	7.2	24
8	Spin-polarized transport properties of GdN nanocontacts. Physical Review B, 2014, 89, .	3.2	5
9	Electric field for tuning quantum entanglement in supported clusters. Journal of Physics Condensed Matter, 2014, 26, 315010.	1.8	2
10	Spin-polarized quantum confinement in nanostructures: Scanning tunneling microscopy. Reviews of Modern Physics, 2014, 86, 1127-1168.	45.6	65
11	Emergence of high spin polarization of conductance in atomic-size Co-Au contacts. Physical Review B, 2014, 89, .	3.2	13
12	Tailoring magnetic properties of metallic thin films with quantum well states and external electric fields. Physical Review B, 2013, 88, .	3.2	23
13	Surface-phonon dispersion of a NiO(100) thin film. Physical Review B, 2013, 87, .	3.2	19
14	Misfit-Induced Modification of Structure and Magnetism in O^{Fe} FeO Tj ETQqO O 0 rgBT /Overlock 10 Tf 50 217 Td (stretchy="false")</mn> \hat{p} p mo		

#	ARTICLE	IF	CITATIONS
19	Numerical investigation of optical heartbeats with external driving forces. Moscow University Physics Bulletin (English Translation of Vestnik Moskovskogo Universiteta, Fizika), 2010, 65, 180-183.	0.4	0
20	Probing the magnetism of nanostructures buried in metallic surfaces and their possible utilization. Physica Status Solidi (B): Basic Research, 2010, 247, 1161-1169.	1.5	4
21	Relativistic peculiarities at stepped surfaces: Energetics and diffusion patterns obtained from <i>ab initio</i> calculations. Physical Review B, 2010, 82, .	3.2	3
22	Quantum confinement on nanoislands as a tool for tailoring exchange interaction: An <i>ab initio</i> study. Physical Review B, 2009, 79, .	3.2	7
23	Probing buried magnetic nanostructures by spin-resolved local density of states at the surface: A density functional study. Physical Review B, 2009, 79, .	3.2	4
24	Tailoring Exchange Interactions in Engineered Nanostructures: An <i>Ab Initio</i> Study. Physical Review Letters, 2008, 101, 036809.	7.8	39
25	Effect of exchange interaction on the spin-polarized bound states on metal surfaces: <i>Ab initio</i> study. Physical Review B, 2008, 78, .	3.2	5
26	Laser control of the structure of a photosensitive substrate for enzymatic reaction. Laser Physics, 2007, 17, 1262-1265.	1.2	1
27	Optimization of the Rolling-Circle Filter for Raman Background Subtraction. Applied Spectroscopy, 2006, 60, 288-293.	2.2	116
28	Resolution of the time-resolved absorption spectra of three-component systems into spectral components and determination of transition constants. Laser Physics, 2006, 16, 1658-1663.	1.2	0