

Oleg O Brovko

List of Publications by Year in descending order

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Version: 2024-02-01

28
papers

514
citations

759233

12
h-index

642732

23
g-index

28
all docs

28
docs citations

28
times ranked

895
citing authors

#	ARTICLE	IF	CITATIONS
1	Optimization of the Rolling-Circle Filter for Raman Background Subtraction. <i>Applied Spectroscopy</i> , 2006, 60, 288-293.	2.2	116
2	Quantum engineering of spin and anisotropy in magnetic molecular junctions. <i>Nature Communications</i> , 2015, 6, 8536.	12.8	68
3	Spin-polarized quantum confinement in nanostructures: Scanning tunneling microscopy. <i>Reviews of Modern Physics</i> , 2014, 86, 1127-1168.	45.6	65
4	Controlling magnetism on metal surfaces with non-magnetic means: electric fields and surface charging. <i>Journal of Physics Condensed Matter</i> , 2014, 26, 093001.	1.8	42
5	Tailoring Exchange Interactions in Engineered Nanostructures: An <i>Ab Initio</i> Study. <i>Physical Review Letters</i> , 2008, 101, 036809.	7.8	39
6	Effect of mesoscopic misfit on growth, morphology, electronic properties and magnetism of nanostructures at metallic surfaces. <i>Surface Science Reports</i> , 2014, 69, 159-195.	7.2	24
7	Tailoring magnetic properties of metallic thin films with quantum well states and external electric fields. <i>Physical Review B</i> , 2013, 88, .	3.2	23
8	Surface-phonon dispersion of a NiO(100) thin film. <i>Physical Review B</i> , 2013, 87, .	3.2	19
9	Mechanical dissipation from charge and spin transitions in oxygen-deficient SrTiO ₃ surfaces. <i>Nature Communications</i> , 2018, 9, 2946.	12.8	16
10	Controlling the magnetism of oxygen surface vacancies in SrTiO_3 through charging. <i>Physical Review Materials</i> , 2017, 1, .	2.4	15
11	Emergence of high spin polarization of conductance in atomic-size Co-Au contacts. <i>Physical Review B</i> , 2014, 89, .	3.2	13
12	Potential energy-driven spin manipulation via a controllable hydrogen ligand. <i>Science Advances</i> , 2017, 3, e1602060.	10.3	13
13	Misfit-induced Modification of Structure and Magnetism in OFeO Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 257 Td (stretchy="fa		

#	ARTICLE	IF	CITATIONS
19	Probing buried magnetic nanostructures by spin-resolved local density of states at the surface: A density functional study. <i>Physical Review B</i> , 2009, 79, .	3.2	4
20	Probing the magnetism of nanostructures buried in metallic surfaces and their possible utilization. <i>Physica Status Solidi (B): Basic Research</i> , 2010, 247, 1161-1169.	1.5	4
21	Relativistic peculiarities at stepped surfaces: Energetics and diffusion patterns obtained from ab initio calculations. <i>Physical Review B</i> , 2010, 82, .	3.2	3
22	Quantum spin holography with surface state electrons. <i>Applied Physics Letters</i> , 2012, 100, 163112.	3.3	2
23	Electric field for tuning quantum entanglement in supported clusters. <i>Journal of Physics Condensed Matter</i> , 2014, 26, 315010.	1.8	2
24	Laser control of the structure of a photosensitive substrate for enzymatic reaction. <i>Laser Physics</i> , 2007, 17, 1262-1265.	1.2	1
25	Confined bulk states as a long-range sensor for impurities and a transfer channel for quantum information. <i>Physical Review B</i> , 2011, 83, .	3.2	1
26	Gate control of spin-polarized conductance in alloyed transitional metal nanocontacts. <i>Physical Review B</i> , 2017, 95, .	3.2	1
27	Resolution of the time-resolved absorption spectra of three-component systems into spectral components and determination of transition constants. <i>Laser Physics</i> , 2006, 16, 1658-1663.	1.2	0
28	Numerical investigation of optical heartbeats with external driving forces. <i>Moscow University Physics Bulletin (English Translation of Vestnik Moskovskogo Universiteta, Fizika)</i> , 2010, 65, 180-183.	0.4	0