

Koroteev Yury

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

51
papers

2,809
citations

24
h-index

53
g-index

54
ext. papers

3,119
ext. citations

4.1
avg, IF

4.48
L-index

#	Paper	IF	Citations
51	Strong spin-orbit splitting on bi surfaces. <i>Physical Review Letters</i> , 2004 , 93, 046403	7.4	522
50	Role of spin-orbit coupling and hybridization effects in the electronic structure of ultrathin Bi films. <i>Physical Review Letters</i> , 2006 , 97, 146803	7.4	246
49	Atom-specific spin mapping and buried topological states in a homologous series of topological insulators. <i>Nature Communications</i> , 2012 , 3, 635	17.4	168
48	First-principles investigation of structural and electronic properties of ultrathin Bi films. <i>Physical Review B</i> , 2008 , 77,	3.3	165
47	Role of spin in quasiparticle interference. <i>Physical Review Letters</i> , 2004 , 93, 196802	7.4	144
46	Ideal two-dimensional electron systems with a giant Rashba-type spin splitting in real materials: surfaces of bismuth tellurohalides. <i>Physical Review Letters</i> , 2012 , 108, 246802	7.4	138
45	Disentanglement of surface and bulk Rashba spin splittings in noncentrosymmetric BiTeI. <i>Physical Review Letters</i> , 2012 , 109, 116403	7.4	128
44	Highly-ordered wide bandgap materials for quantized anomalous Hall and magnetoelectric effects. <i>2D Materials</i> , 2017 , 4, 025082	5.9	125
43	Quantum well states in ultrathin Bi films: Angle-resolved photoemission spectroscopy and first-principles calculations study. <i>Physical Review B</i> , 2007 , 75,	3.3	91
42	Effect of the atomic composition of the surface on the electron surface states in topological insulators A V2 B VI3. <i>JETP Letters</i> , 2010 , 91, 387-391	1.2	84
41	Quantum-well-induced giant spin-orbit splitting. <i>Physical Review Letters</i> , 2010 , 104, 066802	7.4	84
40	Lateral quantum wells at vicinal Au(111) studied with angle-resolved photoemission. <i>Physical Review B</i> , 2002 , 66,	3.3	76
39	Structure of the (111) surface of bismuth: LEED analysis and first-principles calculations. <i>Physical Review B</i> , 2005 , 72,	3.3	72
38	Experimental verification of PbBi2Te4 as a 3D topological insulator. <i>Physical Review Letters</i> , 2012 , 108, 206803	7.4	69
37	Observation of single-spin Dirac fermions at the graphene/ferromagnet interface. <i>Nano Letters</i> , 2015 , 15, 2396-401	11.5	67
36	Electronic Structure of Ultrathin Bismuth Films with A7 and Black-Phosphorus-like Structures. <i>Journal of the Physical Society of Japan</i> , 2008 , 77, 014701	1.5	61
35	Unoccupied topological states on bismuth chalcogenides. <i>Physical Review B</i> , 2012 , 86,	3.3	54

34	Electronic structure and Fermi surface of Bi(100). <i>Physical Review B</i> , 2005 , 71,	3-3	53
33	Ab initio electronic structure of thallium-based topological insulators. <i>Physical Review B</i> , 2011 , 83,	3-3	50
32	Ternary compounds based on binary topological insulators as an efficient way for modifying the Dirac cone. <i>JETP Letters</i> , 2011 , 93, 15-20	1.2	37
31	Ternary thallium-based semimetal chalcogenides TI-V-VI ₂ as a new class of three-dimensional topological insulators. <i>JETP Letters</i> , 2010 , 91, 594-598	1.2	35
30	Spin-resolved two-photon photoemission study of the surface resonance state on CoTe(001). <i>Physical Review B</i> , 2006 , 74,	3-3	31
29	Strong ferromagnetism at the surface of an antiferromagnet caused by buried magnetic moments. <i>Nature Communications</i> , 2014 , 5, 3171	17.4	25
28	Mirror-symmetry protected non-TRIM surface state in the weak topological insulator Bi ₂ Te ₃ . <i>Scientific Reports</i> , 2016 , 6, 20734	4.9	24
27	On possible deep subsurface states in topological insulators: The PbBi ₄ Te ₇ system. <i>JETP Letters</i> , 2010 , 92, 161-165	1.2	23
26	Low-energy collective electronic excitations in Pd metal. <i>Physical Review B</i> , 2009 , 80,	3-3	22
25	Influence of hydrogen absorption on low-energy electronic collective excitations in palladium. <i>Physical Review B</i> , 2007 , 76,	3-3	22
24	Robust and tunable itinerant ferromagnetism at the silicon surface of the antiferromagnet GdRh ₂ Si ₂ . <i>Scientific Reports</i> , 2016 , 6, 24254	4.9	20
23	Electronic and spin structure of a family of Sn-based ternary topological insulators. <i>Physical Review B</i> , 2015 , 92,	3-3	19
22	Natural sulfur-containing minerals as topological insulators with a wide band gap. <i>JETP Letters</i> , 2012 , 96, 322-325	1.2	19
21	Surface electronic structures of La(0001) and Lu(0001). <i>Physical Review B</i> , 2006 , 73,	3-3	19
20	Three- and two-dimensional topological insulators in Pb ₂ Sb ₂ Te ₅ , Pb ₂ Bi ₂ Te ₅ , and Pb ₂ Bi ₂ Se ₅ layered compounds. <i>JETP Letters</i> , 2011 , 94, 217-221	1.2	16
19	Conservation of the lateral electron momentum at a metal-semiconductor interface studied by ballistic electron emission microscopy. <i>Physical Review Letters</i> , 2009 , 102, 136807	7.4	14
18	Role of surface passivation in the formation of Dirac states at polar surfaces of topological crystalline insulators: The case of SnTe(111). <i>Physical Review B</i> , 2014 , 89,	3-3	11
17	Surface- and edge-states in ultrathin Bi ₂ Se ₃ films. <i>New Journal of Physics</i> , 2010 , 12, 065006	2.9	11

16	Topological Magnetic Materials of the (MnSbTe)(SbTe) van der Waals Compounds Family. <i>Journal of Physical Chemistry Letters</i> , 2021 , 12, 4268-4277	6.4	11
15	Structure stability and electronic properties of the Zr-He system: First-principles calculations. <i>Physics of the Solid State</i> , 2009 , 51, 1600-1607	0.8	10
14	Hydrogen migration in palladium: First-principles calculations. <i>Physics of the Solid State</i> , 2011 , 53, 896-900	0.8	8
13	Evolution of the electron structure and excitation spectrum in palladium as a result of hydrogen absorption. <i>Doklady Physics</i> , 2008 , 53, 318-322	0.8	8
12	Insight on a novel layered semiconductors: CuTlS and CuTlSe. <i>Journal of Solid State Chemistry</i> , 2016 , 242, 1-7	3.3	5
11	Mutual influence of hydrogen and vacancies in Zirconium on the energy of their interaction with metal. <i>Physics of the Solid State</i> , 2018 , 60, 10-19	0.8	4
10	Effect of deformation on the electronic structure and topological properties of the AlMg ₂ Bi ₂ (Al = Mg, Ca, Sr, Ba) compounds. <i>JETP Letters</i> , 2017 , 105, 502-507	1.2	4
9	Electronic structures of the Zr-He, Zr-H, and Zr-He-H systems. <i>Physics of the Solid State</i> , 2015 , 57, 1719-1725	0.8	4
8	Electronic structure of the Zr-He system. <i>Physics of the Solid State</i> , 2014 , 56, 1009-1017	0.8	3
7	Nontrivial topology of cubic alkali bismuthides. <i>Physical Review B</i> , 2017 , 95,	3.3	2
6	Formation of Surface and Quantum-Well States in Ultra Thin Pt Films on the Au(111) Surface. <i>Materials</i> , 2017 , 10,	3.5	2
5	Atomic structure of the ZrHe, ZrVac, and ZrVacHe systems: First-principles calculation. <i>Physics of the Solid State</i> , 2017 , 59, 9-15	0.8	1
4	Ab Initio Calculations of Two-Dimensional Topological Insulators* 2015 , 101-129		1
3	Role of hydrogen in the absorption of ionizing radiation energy by a metal-hydrogen system. <i>Journal of Surface Investigation</i> , 2007 , 1, 186-191	0.5	1
2	Strong Rashba Effect and Different π Hybridization Phenomena at the Surface of the Heavy-Fermion Superconductor CeIrIn ₅ . <i>Advanced Electronic Materials</i> , 2100768	6.4	0
1	Electronic and crystal structure of the Pt(111)-(2 \times 2)-K and Cu(111)-(2 \times 2)-K systems. <i>Advances in Quantum Chemistry</i> , 2019 , 80, 175-197	1.4	0