Koroteev Yury

List of Publications by Year in Descending Order

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	Topological Magnetic Materials of the (MnSbTe)□(SbTe) van der Waals Compounds Family. *Journal of Physical Chemistry Letters*, **2021**, 12, 4268-4277	6.4	11
50	Electronic and crystal structure of the Pt(111)-(2 □2)-K and Cu(111)-(2 □2)-K systems. *Advances in Quantum Chemistry*, **2019**, 80, 175-197	1.4	0
49	Mutual influence of hydrogen and vacancies in □zirconium on the energy of their interaction with metal. *Physics of the Solid State*, **2018**, 60, 10-19	0.8	4
48	Atomic structure of the ZrHe, ZrVac, and ZrVacHe systems: First-principles calculation. *Physics of the Solid State*, **2017**, 59, 9-15	0.8	1
47	Highly-ordered wide bandgap materials for quantized anomalous Hall and magnetoelectric effects. *2D Materials*, **2017**, 4, 025082	5.9	125
46	Nontrivial topology of cubic alkali bismuthides. *Physical Review B*, **2017**, 95,	3.3	2
45	Effect of deformation on the electronic structure and topological properties of the AIIMg2Bi2 (AII = Mg,Ca,Sr,Ba) compounds. *JETP Letters*, **2017**, 105, 502-507	1.2	4
44	Formation of Surface and Quantum-Well States in Ultra Thin Pt Films on the Au(111) Surface. *Materials*, **2017**, 10,	3.5	2
43	Robust and tunable itinerant ferromagnetism at the silicon surface of the antiferromagnet GdRh2Si2. *Scientific Reports*, **2016**, 6, 24254	4.9	20
42	Insight on a novel layered semiconductors: CuTlS and CuTlSe. *Journal of Solid State Chemistry*, **2016**, 242, 1-7	3.3	5
41	Mirror-symmetry protected non-TRIM surface state in the weak topological insulator Bi2TeI. *Scientific Reports*, **2016**, 6, 20734	4.9	24
40	Observation of single-spin Dirac fermions at the graphene/ferromagnet interface. *Nano Letters*, **2015**, 15, 2396-401	11.5	67
39	Ab Initio Calculations of Two-Dimensional Topological Insulators* **2015**, 101-129		1
38	Electronic and spin structure of a family of Sn-based ternary topological insulators. *Physical Review B*, **2015**, 92,	3.3	19
37	Electronic structures of the Zr-He, Zr-H, and Zr-He-H systems. *Physics of the Solid State*, **2015**, 57, 1719-1725	0.8	4
36	Strong ferromagnetism at the surface of an antiferromagnet caused by buried magnetic moments. *Nature Communications*, **2014**, 5, 3171	17.4	25
35	Electronic structure of the Zr-He system. *Physics of the Solid State*, **2014**, 56, 1009-1017	0.8	3

34	Role of surface passivation in the formation of Dirac states at polar surfaces of topological crystalline insulators: The case of SnTe(111). *Physical Review B*, **2014**, 89,	3.3	11
33	Unoccupied topological states on bismuth chalcogenides. *Physical Review B*, **2012**, 86,	3.3	54
32	Ideal two-dimensional electron systems with a giant Rashba-type spin splitting in real materials: surfaces of bismuth tellurohalides. *Physical Review Letters*, **2012**, 108, 246802	7.4	138
31	Natural sulfur-containing minerals as topological insulators with a wide band gap. *JETP Letters*, **2012**, 96, 322-325	1.2	19
30	Atom-specific spin mapping and buried topological states in a homologous series of topological insulators. *Nature Communications*, **2012**, 3, 635	17.4	168
29	Experimental verification of PbBi2Te4 as a 3D topological insulator. *Physical Review Letters*, **2012**, 108, 206803	7.4	69
28	Disentanglement of surface and bulk Rashba spin splittings in noncentrosymmetric BiTeI. *Physical Review Letters*, **2012**, 109, 116403	7.4	128
27	Ternary compounds based on binary topological insulators as an efficient way for modifying the Dirac cone. *JETP Letters*, **2011**, 93, 15-20	1.2	37
26	Three- and two-dimensional topological insulators in Pb2Sb2Te5, Pb2Bi2Te5, and Pb2Bi2Se5 layered compounds. *JETP Letters*, **2011**, 94, 217-221	1.2	16
25	Hydrogen migration in palladium: First-principles calculations. *Physics of the Solid State*, **2011**, 53, 896-900	0.8	8
24	Ab initio electronic structure of thallium-based topological insulators. *Physical Review B*, **2011**, 83,	3.3	50
23	Effect of the atomic composition of the surface on the electron surface states in topological insulators A V2 B VI3. *JETP Letters*, **2010**, 91, 387-391	1.2	84
22	Ternary thallium-based semimetal chalcogenides Tl-V-VI2 as a new class of three-dimensional topological insulators. *JETP Letters*, **2010**, 91, 594-598	1.2	35
21	On possible deep subsurface states in topological insulators: The PbBi4Te7 system. *JETP Letters*, **2010**, 92, 161-165	1.2	23
20	Surface- and edge-states in ultrathin Bi§b films. *New Journal of Physics*, **2010**, 12, 065006	2.9	11
19	Quantum-well-induced giant spin-orbit splitting. *Physical Review Letters*, **2010**, 104, 066802	7.4	84
18	Low-energy collective electronic excitations in Pd metal. *Physical Review B*, **2009**, 80,	3.3	22
17	Structure stability and electronic properties of the Zr-He system: First-principles calculations. *Physics of the Solid State*, **2009**, 51, 1600-1607	0.8	10

16	Conservation of the lateral electron momentum at a metal-semiconductor interface studied by ballistic electron emission microscopy. *Physical Review Letters*, **2009**, 102, 136807	7.4	14
15	Electronic Structure of Ultrathin Bismuth Films with A7 and Black-Phosphorus-like Structures. *Journal of the Physical Society of Japan*, **2008**, 77, 014701	1.5	61
14	First-principles investigation of structural and electronic properties of ultrathin Bi films. *Physical Review B*, **2008**, 77,	3.3	165
13	Evolution of the electron structure and excitation spectrum in palladium as a result of hydrogen absorption. *Doklady Physics*, **2008**, 53, 318-322	0.8	8
12	Role of hydrogen in the absorption of ionizing radiation energy by a metal-hydrogen system. *Journal of Surface Investigation*, **2007**, 1, 186-191	0.5	1
11	Influence of hydrogen absorption on low-energy electronic collective excitations in palladium. *Physical Review B*, **2007**, 76,	3.3	22
10	Quantum well states in ultrathin Bi films: Angle-resolved photoemission spectroscopy and first-principles calculations study. *Physical Review B*, **2007**, 75,	3.3	91
9	Surface electronic structures of La(0001) and Lu(0001). *Physical Review B*, **2006**, 73,	3.3	19
8	Spin-resolved two-photon photoemission study of the surface resonance state on Co□u(001). *Physical Review B*, **2006**, 74,	3.3	31
7	Role of spin-orbit coupling and hybridization effects in the electronic structure of ultrathin Bi films. *Physical Review Letters*, **2006**, 97, 146803	7.4	246
6	Structure of the (111) surface of bismuth: LEED analysis and first-principles calculations. *Physical Review B*, **2005**, 72,	3.3	72
5	Electronic structure and Fermi surface of Bi(100). *Physical Review B*, **2005**, 71,	3.3	53
4	Role of spin in quasiparticle interference. *Physical Review Letters*, **2004**, 93, 196802	7.4	144
3	Strong spin-orbit splitting on bi surfaces. *Physical Review Letters*, **2004**, 93, 046403	7.4	522
2	Lateral quantum wells at vicinal Au(111) studied with angle-resolved photoemission. *Physical Review B*, **2002**, 66,	3.3	76
1	Strong Rashba Effect and Different f□ Hybridization Phenomena at the Surface of the Heavy-Fermion Superconductor CeIrIn5. *Advanced Electronic Materials*,2100768	6.4	0