

# Mikhail M Otrokov

## List of Publications by Citations

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63  
ext. papers

2,855  
ext. citations

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4.67  
L-index

#	Paper	IF	Citations
60	Prediction and observation of an antiferromagnetic topological insulator. <i>Nature</i> , <b>2019</b> , 576, 416-422	50.4	333
59	Unique Thickness-Dependent Properties of the van der Waals Interlayer Antiferromagnet MnBi <sub>2</sub> Te <sub>4</sub> Films. <i>Physical Review Letters</i> , <b>2019</b> , 122, 107202	7.4	217
58	Highly-ordered wide bandgap materials for quantized anomalous Hall and magnetoelectric effects. <i>2D Materials</i> , <b>2017</b> , 4, 025082	5.9	125
57	Spatial variation of a giant spin-orbit effect induces electron confinement in graphene on Pb islands. <i>Nature Physics</i> , <b>2015</b> , 11, 43-47	16.2	110
56	Surface states and Rashba-type spin polarization in antiferromagnetic MnBi <sub>2</sub> Te <sub>4</sub> (0001). <i>Physical Review B</i> , <b>2019</b> , 100,	3.3	86
55	Novel ternary layered manganese bismuth tellurides of the MnTe-Bi <sub>2</sub> Te <sub>3</sub> system: Synthesis and crystal structure. <i>Journal of Alloys and Compounds</i> , <b>2019</b> , 789, 443-450	5.7	79
54	Observation of single-spin Dirac fermions at the graphene/ferromagnet interface. <i>Nano Letters</i> , <b>2015</b> , 15, 2396-401	11.5	67
53	Spin-Orbit Coupling Induced Gap in Graphene on Pt(111) with Intercalated Pb Monolayer. <i>ACS Nano</i> , <b>2017</b> , 11, 368-374	16.7	57
52	Exchange interaction and its tuning in magnetic binary chalcogenides. <i>Physical Review B</i> , <b>2014</b> , 89,	3.3	54
51	Tunable 3D/2D magnetism in the (MnBi <sub>2</sub> Te <sub>4</sub> )(Bi <sub>2</sub> Te <sub>3</sub> ) <sub>m</sub> topological insulators family. <i>Npj Quantum Materials</i> , <b>2020</b> , 5,	5	53
50	Band structure engineering in topological insulator based heterostructures. <i>Nano Letters</i> , <b>2013</b> , 13, 6064-6065	4.5	49
49	Magnetic extension as an efficient method for realizing the quantum anomalous hall state in topological insulators. <i>JETP Letters</i> , <b>2017</b> , 105, 297-302	1.2	47
48	Competing rhombohedral and monoclinic crystal structures in MnPn <sub>2</sub> Ch <sub>4</sub> compounds: An ab-initio study. <i>Journal of Alloys and Compounds</i> , <b>2017</b> , 709, 172-178	5.7	43
47	Epitaxial B-Graphene: Large-Scale Growth and Atomic Structure. <i>ACS Nano</i> , <b>2015</b> , 9, 7314-22	16.7	42
46	Large-Scale Sublattice Asymmetry in Pure and Boron-Doped Graphene. <i>Nano Letters</i> , <b>2016</b> , 16, 4535-43	11.5	41
45	Manipulating the Topological Interface by Molecular Adsorbates: Adsorption of Co-Phthalocyanine on Bi <sub>2</sub> Se <sub>3</sub> . <i>Nano Letters</i> , <b>2016</b> , 16, 3409-14	11.5	41
44	Tuning the Dirac point position in Bi <sub>2</sub> (Se <sub>3</sub> )(0001) via surface carbon doping. <i>Physical Review Letters</i> , <b>2014</b> , 113, 116802	7.4	40

43	Visualizing spin-dependent bulk scattering and breakdown of the linear dispersion relation in Bi <sub>2</sub> Te <sub>3</sub> . <i>Physical Review B</i> , <b>2013</b> , 88,	3-3	33
42	New Universal Type of Interface in the Magnetic Insulator/Topological Insulator Heterostructures. <i>Nano Letters</i> , <b>2018</b> , 18, 6521-6529	11.5	33
41	Atomic relaxations at the (0001) surface of Bi <sub>2</sub> Se <sub>3</sub> single crystals and ultrathin films. <i>Physical Review B</i> , <b>2014</b> , 90,	3-3	32
40	Surface alloying and iron selenide formation in Fe/Bi <sub>2</sub> Se <sub>3</sub> (0001) observed by x-ray absorption fine structure experiments. <i>Physical Review B</i> , <b>2015</b> , 92,	3-3	29
39	Spectroscopic perspective on the interplay between electronic and magnetic properties of magnetically doped topological insulators. <i>Physical Review B</i> , <b>2017</b> , 96,	3-3	28
38	Signatures of temperature driven antiferromagnetic transition in the electronic structure of topological insulator MnBi <sub>2</sub> Te <sub>4</sub> . <i>APL Materials</i> , <b>2020</b> , 8, 021105	5-7	23
37	Atomic and electronic structure of bismuth-bilayer-terminated Bi <sub>2</sub> Se <sub>3</sub> (0001) prepared by atomic hydrogen etching. <i>Physical Review B</i> , <b>2015</b> , 91,	3-3	23
36	Nature of the Dirac gap modulation and surface magnetic interaction in axion antiferromagnetic topological insulator [Formula: see text]. <i>Scientific Reports</i> , <b>2020</b> , 10, 13226	4-9	23
35	Magneto-Spin-Orbit Graphene: Interplay between Exchange and Spin-Orbit Couplings. <i>Nano Letters</i> , <b>2018</b> , 18, 1564-1574	11.5	22
34	Spin Orientation of Two-Dimensional Electrons Driven by Temperature-Tunable Competition of Spin-Orbit and Exchange-Magnetic Interactions. <i>Nano Letters</i> , <b>2017</b> , 17, 811-820	11.5	20
33	Robust and tunable itinerant ferromagnetism at the silicon surface of the antiferromagnet GdRh <sub>2</sub> Si <sub>2</sub> . <i>Scientific Reports</i> , <b>2016</b> , 6, 24254	4-9	20
32	Natural sulfur-containing minerals as topological insulators with a wide band gap. <i>JETP Letters</i> , <b>2012</b> , 96, 322-325	1.2	19
31	Fabrication of a novel magnetic topological heterostructure and temperature evolution of its massive Dirac cone. <i>Nature Communications</i> , <b>2020</b> , 11, 4821	17.4	19
30	Evidence of large spin-orbit coupling effects in quasi-free-standing graphene on Pb/Ir(1 1 1). <i>2D Materials</i> , <b>2018</b> , 5, 035029	5-9	18
29	Breaking time-reversal symmetry at the topological insulator surface by metal-organic coordination networks. <i>Physical Review B</i> , <b>2015</b> , 92,	3-3	17
28	Efficient step-mediated intercalation of silver atoms deposited on the Bi <sub>2</sub> Se <sub>3</sub> surface. <i>JETP Letters</i> , <b>2013</b> , 96, 714-718	1.2	16
27	Mn-Rich MnSb Te : A Topological Insulator with Magnetic Gap Closing at High Curie Temperatures of 45-50 K. <i>Advanced Materials</i> , <b>2021</b> , 33, e2102935	24	16
26	Electronic structure and dielectric function of Mn-Bi-Te layered compounds. <i>Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics</i> , <b>2019</b> , 37, 062910	1-3	14

25	Low-coverage surface diffusion in complex periodic energy landscapes: Analytical solution for systems with symmetric hops and application to intercalation in topological insulators. <i>Physical Review B</i> , <b>2016</b> , 93,	3.3	11
24	Giant Magnetic Band Gap in the Rashba-Split Surface State of Vanadium-Doped BiTeI: A Combined Photoemission and Ab Initio Study. <i>Scientific Reports</i> , <b>2017</b> , 7, 3353	4.9	11
23	Ab initio study of the magnetic ordering in Si/Mn digital alloys. <i>Physical Review B</i> , <b>2011</b> , 84,	3.3	11
22	Topological Magnetic Materials of the (MnSbTe)(SbTe) van der Waals Compounds Family. <i>Journal of Physical Chemistry Letters</i> , <b>2021</b> , 12, 4268-4277	6.4	11
21	Strong spin-orbit coupling in the noncentrosymmetric Kondo lattice. <i>Physical Review B</i> , <b>2018</b> , 98,	3.3	10
20	Instability of the topological surface state in Bi <sub>2</sub> Se <sub>3</sub> upon deposition of gold. <i>Physical Review B</i> , <b>2017</b> , 95,	3.3	9
19	Magnetic ordering in digital alloys of group-IV semiconductors with 3d-transition metals. <i>Journal of Experimental and Theoretical Physics</i> , <b>2011</b> , 112, 625-636	1	8
18	Domain wall induced spin-polarized flat bands in antiferromagnetic topological insulators. <i>Physical Review B</i> , <b>2021</b> , 103,	3.3	8
17	Ab initio study of the adsorption, diffusion, and intercalation of alkali metal atoms on the (0001) surface of the topological insulator Bi <sub>2</sub> Se <sub>3</sub> . <i>Journal of Experimental and Theoretical Physics</i> , <b>2015</b> , 121, 465-476	1	7
16	Intralayer magnetic ordering in Ge/Mn digital alloys. <i>Physical Review B</i> , <b>2011</b> , 83,	3.3	7
15	Native point defects and their implications for the Dirac point gap at MnBi <sub>2</sub> Te <sub>4</sub> (0001). <i>Npj Quantum Materials</i> , <b>2022</b> , 7,	5	6
14	Sample-dependent Dirac-point gap in MnBi <sub>2</sub> Te <sub>4</sub> and its response to applied surface charge: A combined photoemission and ab initio study. <i>Physical Review B</i> , <b>2021</b> , 104,	3.3	6
13	Geometric and electronic structure of the Cs-doped Bi <sub>2</sub> Se <sub>3</sub> (0001) surface. <i>Physical Review B</i> , <b>2017</b> , 95,	3.3	5
12	Search for stable ferromagnets among AlV/Fe digital alloys (AlV= Si, Ge) using first-principles calculations. <i>Physical Review B</i> , <b>2012</b> , 86,	3.3	5
11	TCNQ Physisorption on the Topological Insulator Bi Se. <i>ChemPhysChem</i> , <b>2018</b> , 19, 2405-2410	3.2	5
10	Magnetic Properties of Metal/Organic Coordination Networks Based on 3d Transition Metal Atoms. <i>Molecules</i> , <b>2018</b> , 23,	4.8	4
9	Digital magnetic heterostructures based on Si and Fe. <i>Physics of the Solid State</i> , <b>2010</b> , 52, 1680-1687	0.8	4
8	Infrared study of the multiband low-energy excitations of the topological antiferromagnet MnBi <sub>2</sub> Te <sub>4</sub> . <i>Physical Review B</i> , <b>2021</b> , 103,	3.3	4

7	Classical and cubic Rashba effect in the presence of in-plane 4f magnetism at the iridium silicide surface of the antiferromagnet GdIr <sub>2</sub> Si <sub>2</sub> . <i>Physical Review B</i> , <b>2021</b> , 103,	3.3	4
6	Origin of two-dimensional electronic states at Si- and Gd-terminated surfaces of GdRh <sub>2</sub> Si <sub>2</sub> (001). <i>Physical Review B</i> , <b>2019</b> , 100,	3.3	3
5	Low-coverage surface diffusion in complex periodic energy landscapes. II. Analytical solution for systems with asymmetric hops. <i>Physical Review B</i> , <b>2016</b> , 93,	3.3	3
4	Large Perpendicular Magnetic Anisotropy in Nanometer-Thick Epitaxial Graphene/Co/Heavy Metal Heterostructures for SpinOrbitronics Devices. <i>ACS Applied Nano Materials</i> , <b>2021</b> , 4, 4398-4408	5.6	3
3	Reply to "Comment on Spin-Orbit Coupling Induced Gap in Graphene on Pt(111) with Intercalated Pb Monolayer". <i>ACS Nano</i> , <b>2017</b> , 11, 10630-10632	16.7	1
2	Persistence of the Topological Surface States in Bi <sub>2</sub> Se <sub>3</sub> against Ag Intercalation at Room Temperature. <i>Journal of Physical Chemistry C</i> , <b>2021</b> , 125, 1784-1792	3.8	0
1	The Charge Transport Mechanism in a New Magnetic Topological Insulator MnBi <sub>0.5</sub> Sb <sub>1.5</sub> Te <sub>4</sub> . <i>Physics of the Solid State</i> , <b>2021</b> , 63, 1120-1125	0.8	0