

Sergey Eremeev

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190
papers

4,277
citations

34
h-index

59
g-index

199
ext. papers

5,148
ext. citations

3.5
avg, IF

5.34
L-index

#	Paper	IF	Citations
190	Prediction and observation of an antiferromagnetic topological insulator. <i>Nature</i> , 2019 , 576, 416-422	50.4	333
189	Unique Thickness-Dependent Properties of the van der Waals Interlayer Antiferromagnet MnBi ₂ Te ₄ Films. <i>Physical Review Letters</i> , 2019 , 122, 107202	7.4	217
188	Experimental realization of a three-dimensional topological insulator phase in ternary chalcogenide TlBiSe ₂ <i>Physical Review Letters</i> , 2010 , 105, 146801	7.4	180
187	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
186	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
185	Disentanglement of surface and bulk Rashba spin splittings in noncentrosymmetric BiTeI. <i>Physical Review Letters</i> , 2012 , 109, 116403	7.4	128
184	Magnetic proximity effect at the three-dimensional topological insulator/magnetic insulator interface. <i>Physical Review B</i> , 2013 , 88,	3.3	122
183	Topological character and magnetism of the Dirac state in Mn-doped Bi ₂ Te ₃ . <i>Physical Review Letters</i> , 2012 , 109, 076801	7.4	105
182	Large-Gap Magnetic Topological Heterostructure Formed by Subsurface Incorporation of a Ferromagnetic Layer. <i>Nano Letters</i> , 2017 , 17, 3493-3500	11.5	93
181	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
180	Topological surface states with persistent high spin polarization across the Dirac point in Bi ₂ Te ₂ Se and Bi ₂ Se ₂ Te. <i>Physical Review Letters</i> , 2012 , 109, 166802	7.4	77
179	Complex spin texture in the pure and Mn-doped topological insulator Bi ₂ Te ₃ . <i>Physical Review Letters</i> , 2012 , 108, 206801	7.4	75
178	Experimental verification of PbBi ₂ Te ₄ as a 3D topological insulator. <i>Physical Review Letters</i> , 2012 , 108, 206803	7.4	69
177	Magnetic proximity effect in the three-dimensional topological insulator/ferromagnetic insulator heterostructure. <i>Physical Review B</i> , 2013 , 88,	3.3	59
176	A strategy to create spin-split metallic bands on silicon using a dense alloy layer. <i>Scientific Reports</i> , 2014 , 4, 4742	4.9	56
175	Spin texture of Bi ₂ Se ₃ thin films in the quantum tunneling limit. <i>Physical Review Letters</i> , 2014 , 112, 057601	7.4	56
174	Unoccupied topological states on bismuth chalcogenides. <i>Physical Review B</i> , 2012 , 86,	3.3	54

173	Quasiparticle interference on the surface of Bi ₂ Se ₃ induced by cobalt adatom in the absence of ferromagnetic ordering. <i>Physical Review B</i> , 2012 , 85,	3.3	54
172	Inertness and degradation of (0001) surface of Bi ₂ Se ₃ topological insulator. <i>Journal of Applied Physics</i> , 2012 , 112, 113702	2.5	53
171	The Electronic Structure and Magnetic Properties of Full- and Half-Heusler Alloys. <i>Materials Transactions</i> , 2006 , 47, 599-606	1.3	53
170	Tunable 3D/2D magnetism in the (MnBi ₂ Te ₄)(Bi ₂ Te ₃) _m topological insulators family. <i>Npj Quantum Materials</i> , 2020 , 5,	5	53
169	Spin-texture inversion in the giant Rashba semiconductor BiTeI. <i>Nature Communications</i> , 2016 , 7, 11621	17.4	52
168	The effect of van der Waals gap expansions on the surface electronic structure of layered topological insulators. <i>New Journal of Physics</i> , 2012 , 14, 113030	2.9	52
167	Bulk and surface Rashba splitting in single termination BiTeCl. <i>New Journal of Physics</i> , 2013 , 15, 085022	2.9	50
166	Ab initio electronic structure of thallium-based topological insulators. <i>Physical Review B</i> , 2011 , 83,	3.3	50
165	Electrically tunable in-plane anisotropic magnetoresistance in topological insulator BiSbTeSe ₂ nanodevices. <i>Nano Letters</i> , 2015 , 15, 2061-6	11.5	46
164	Large spin splitting of metallic surface-state bands at adsorbate-modified gold/silicon surfaces. <i>Scientific Reports</i> , 2013 , 3, 1826	4.9	44
163	Competing rhombohedral and monoclinic crystal structures in MnPn ₂ Ch ₄ compounds: An ab-initio study. <i>Journal of Alloys and Compounds</i> , 2017 , 709, 172-178	5.7	43
162	Bulk and surface electron dynamics in a p-type topological insulator SnSb ₂ Te ₄ . <i>Physical Review B</i> , 2014 , 89,	3.3	43
161	Vibrations in submonolayer structures of Na on Cu(111). <i>Physical Review B</i> , 2006 , 74,	3.3	43
160	Rashba split surface states in BiTeBr. <i>New Journal of Physics</i> , 2013 , 15, 075015	2.9	42
159	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
158	Electronic structure and magnetic properties of Co- and Mn-based Heusler alloys and thin films. <i>Solid State Communications</i> , 2004 , 130, 793-797	1.6	36
157	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
156	Giant Rashba-type spin splitting at polar surfaces of BiTeI. <i>JETP Letters</i> , 2012 , 96, 437-444	1.2	34

155	Experimental evidence of hidden topological surface states in PbBi ₄ Te ₇ . <i>Physical Review Letters</i> , 2013 , 111, 206803	7.4	33
154	Many-body effects on the Rashba-type spin splitting in bulk bismuth tellurohalides. <i>Physical Review B</i> , 2013 , 87,	3.3	33
153	New Universal Type of Interface in the Magnetic Insulator/Topological Insulator Heterostructures. <i>Nano Letters</i> , 2018 , 18, 6521-6529	11.5	33
152	Electronic and spin structure of the topological insulator Bi ₂ Te _{2.4} Se _{0.6} . <i>Physical Review B</i> , 2014 , 89,	3.3	32
151	On the origin of two-dimensional electron gas states at the surface of topological insulators. <i>JETP Letters</i> , 2011 , 94, 106-111	1.2	31
150	Interface induced states at the boundary between a 3D topological insulator Bi ₂ Se ₃ and a ferromagnetic insulator EuS. <i>Journal of Magnetism and Magnetic Materials</i> , 2015 , 383, 30-33	2.8	30
149	Electron-phonon contribution to the phonon and excited electron (hole) linewidths in bulk Pd. <i>Journal of Physics Condensed Matter</i> , 2006 , 18, 7923-7935	1.8	30
148	Thermally induced defects and the lifetime of electronic surface states. <i>Physical Review B</i> , 2007 , 75,	3.3	29
147	Multiple Coexisting Dirac Surface States in Three-Dimensional Topological Insulator PbBiTe. <i>ACS Nano</i> , 2016 , 10, 3518-24	16.7	25
146	Investigation of the electronic structure of Me/Al ₂ O ₃ (0001) interfaces. <i>Physica B: Condensed Matter</i> , 2009 , 404, 2065-2071	2.8	25
145	Vibrations of small cobalt clusters on low-index surfaces of copper: Tight-binding simulations. <i>Physical Review B</i> , 2008 , 78,	3.3	25
144	New generation of two-dimensional spintronic systems realized by coupling of Rashba and Dirac fermions. <i>Scientific Reports</i> , 2015 , 5, 12819	4.9	24
143	Electronic structure of SnSb ₂ Te ₄ and PbSb ₂ Te ₄ topological insulators. <i>Applied Surface Science</i> , 2013 , 267, 1-3	6.7	24
142	Electronic band structure of a Tl/Sn atomic sandwich on Si(111). <i>Physical Review B</i> , 2015 , 91,	3.3	24
141	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
140	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
139	Nature of the Dirac gap modulation and surface magnetic interaction in axion antiferromagnetic topological insulator [Formula: see text]. <i>Scientific Reports</i> , 2020 , 10, 13226	4.9	23
138	Electron-phonon coupling in a sodium monolayer on Cu(111). <i>Surface Science</i> , 2007 , 601, 4553-4556	1.8	22

137	Ab initio study of 2DEG at the surface of topological insulator Bi ₂ Te ₃ . <i>JETP Letters</i> , 2012 , 95, 213-218	1.2	21
136	Synthesis of two-dimensional Tl(x)Bi(1-x) compounds and Archimedean encoding of their atomic structure. <i>Scientific Reports</i> , 2016 , 6, 19446	4.9	21
135	Defect and structural imperfection effects on the electronic properties of BiTeI surfaces. <i>New Journal of Physics</i> , 2014 , 16, 075013	2.9	20
134	Electron dynamics of unoccupied states in topological insulators. <i>Journal of Electron Spectroscopy and Related Phenomena</i> , 2014 , 195, 258-262	1.7	20
133	Band bending driven evolution of the bound electron states at the interface between a three-dimensional topological insulator and a three-dimensional normal insulator. <i>Physical Review B</i> , 2015 , 91,	3.3	20
132	Electronic and spin structure of a family of Sn-based ternary topological insulators. <i>Physical Review B</i> , 2015 , 92,	3.3	19
131	Termination-dependent surface properties in the giant-Rashba semiconductors BiTeX (X=Cl, Br, I). <i>Physical Review B</i> , 2015 , 92,	3.3	19
130	Natural sulfur-containing minerals as topological insulators with a wide band gap. <i>JETP Letters</i> , 2012 , 96, 322-325	1.2	19
129	Model pseudopotential for the (110) surface of fcc noble metals. <i>Surface Science</i> , 2010 , 604, 804-810	1.8	19
128	Effect of oxygen vacancies on adhesion at the Nb/Al ₂ O ₃ and Ni/ZrO ₂ interfaces. <i>Physics of the Solid State</i> , 2008 , 50, 543-552	0.8	19
127	Fabrication of a novel magnetic topological heterostructure and temperature evolution of its massive Dirac cone. <i>Nature Communications</i> , 2020 , 11, 4821	17.4	19
126	Ab-initio investigation of Ni(Fe)/ZrO ₂ (001) and NiBe/ZrO ₂ (001) interfaces. <i>Surface Science</i> , 2009 , 603, 2218-2225	1.8	17
125	Two-Dimensional In-Sb Compound on Silicon as a Quantum Spin Hall Insulator. <i>Nano Letters</i> , 2018 , 18, 4338-4345	11.5	16
124	Efficient step-mediated intercalation of silver atoms deposited on the Bi ₂ Se ₃ surface. <i>JETP Letters</i> , 2013 , 96, 714-718	1.2	16
123	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
122	Quantum oscillations in coupled two-dimensional electron systems. <i>Physical Review Letters</i> , 2009 , 103, 026802	7.4	16
121	Electronic structure and adhesion on metal-aluminum-oxide interfaces. <i>Physics of the Solid State</i> , 2010 , 52, 2589-2595	0.8	16
120	Vibrations of alkali metal overlayers on metal surfaces. <i>Journal of Physics Condensed Matter</i> , 2008 , 20, 224007	1.8	16

119	Surface phonons on Al(111) surface covered by alkali metals. <i>Physical Review B</i> , 2005 , 71,	3.3	16
118	Hydrogen adsorption on low-index surfaces of B2 titanium alloys. <i>Physics of the Solid State</i> , 2009 , 51, 1281-1289	0.8	15
117	Momentum-resolved electron dynamics of image-potential states on Cu and Ag surfaces. <i>Physical Review B</i> , 2012 , 85,	3.3	15
116	Temperature-driven topological quantum phase transitions in a phase-change material GeSbTe. <i>Scientific Reports</i> , 2016 , 6, 38799	4.9	15
115	Quantum spin Hall insulators in centrosymmetric thin films composed from topologically trivial BiTeI trilayers. <i>Scientific Reports</i> , 2017 , 7, 43666	4.9	14
114	Inelastic electron-electron scattering for surface states on Cu(110) and Ag(110). <i>Physical Review B</i> , 2011 , 84,	3.3	13
113	Vibrations on the (110) surface of FCC metals. <i>Vacuum</i> , 1995 , 46, 625-628	3.7	13
112	Two- and three-dimensional topological phases in BiTeX compounds. <i>Physical Review B</i> , 2017 , 96,	3.3	12
111	New topological surface state in layered topological insulators: Unoccupied dirac cone. <i>JETP Letters</i> , 2013 , 96, 780-784	1.2	12
110	Surface Dynamics of the Wetting Layers and Ultrathin Films on a Dynamic Substrate: (0.5 \bar{A}) ML Pb/Cu(111). <i>Journal of Physical Chemistry C</i> , 2016 , 120, 22304-22317	3.8	12
109	Electronic and spin structure of the wide-band-gap topological insulator: Nearly stoichiometric Bi ₂ Te ₂ S. <i>Physical Review B</i> , 2018 , 97,	3.3	11
108	Atomic structure and electronic properties of the two-dimensional (Au,Al)/Si(111)2 \bar{A} compound. <i>Physical Review B</i> , 2015 , 92,	3.3	11
107	Direct measurement of the bulk spin structure of noncentrosymmetric BiTeCl. <i>Physical Review B</i> , 2015 , 91,	3.3	11
106	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
105	Phonon-induced scattering of excited electrons and holes on (110) noble metal surfaces. <i>Physical Review B</i> , 2010 , 82,	3.3	11
104	Dependence of the intrinsic line width of surface states on the wave vector: The Cu(111) and Ag(111) surfaces. <i>Physics of the Solid State</i> , 2010 , 52, 1768-1773	0.8	11
103	Electronic structure of low-index surfaces in TiNi and its change under oxide layer growth. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2006 , 438-440, 476-479	5.3	11
102	Long-period incommensurate superstructures in Cu-Au alloys: Relation with short-period ordering. <i>Journal of Experimental and Theoretical Physics</i> , 2000 , 90, 479-487	1	11

101	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
100	Early Stages of Halogen Adsorption on Cation-Rich InAs(001): Surface Etching Mechanism. <i>Journal of Physical Chemistry C</i> , 2014 , 118, 10097-10105	3.8	10
99	Circular dichroism and superdiffusive transport at the surface of BiTeI. <i>Physical Review Letters</i> , 2013 , 111, 126603	7.4	10
98	Theory versus experiment for a family of single-layer compounds with a similar atomic arrangement: (Tl,X)/Si(111)3B(X=Pb,Sn,Bi,Sb,Te,Se). <i>Physical Review B</i> , 2017 , 96,	3.3	10
97	Sublattice effect on topological surface states in complex (SnTe) $n>1$ (Bi ₂ Te ₃) $m=1$ compounds. <i>Physical Review B</i> , 2015 , 91,	3.3	10
96	Etching or Stabilization of GaAs(001) under Alkali and Halogen Adsorption. <i>Journal of Physical Chemistry C</i> , 2012 , 116, 8535-8540	3.8	10
95	Effect of point defects on the temperature dependence of the Linewidth of a surface electronic state on the Au(111) surface. <i>Physics of the Solid State</i> , 2009 , 51, 854-859	0.8	10
94	Electronic Structures and Surface Reconstructions in Magnetic Superconductor RbEuFeAs. <i>Journal of Physical Chemistry Letters</i> , 2020 , 11, 9393-9399	6.4	10
93	Spin-helical Dirac states in graphene induced by polar-substrate surfaces with giant spin-orbit interaction: a new platform for spintronics. <i>Scientific Reports</i> , 2014 , 4, 6900	4.9	9
92	Bulk and surface electronic structure of SnBi ₄ Te ₇ topological insulator. <i>Applied Surface Science</i> , 2013 , 267, 146-149	6.7	9
91	Model pseudopotential for the Cu(110) surface. <i>Physics of the Solid State</i> , 2010 , 52, 188-194	0.8	9
90	Cesium adsorption on the $\sqrt{3}\times\sqrt{3}$ -GaAs(001) surface. <i>Journal of Experimental and Theoretical Physics</i> , 2007 , 104, 590-601	1	9
89	Electronic structure of low-index surfaces in austenitic and martensitic phases of TiNi and TiPd alloys. <i>Physica B: Condensed Matter</i> , 2004 , 349, 342-347	2.8	9
88	Spin-resolved band structure of heterojunction Bi-bilayer/3D topological insulator in the quantum dimension regime in annealed BiTeSe. <i>Scientific Reports</i> , 2017 , 7, 45797	4.9	8
87	Surface electronic structure of bismuth oxychalcogenides. <i>Physical Review B</i> , 2019 , 100,	3.3	8
86	Modelling near-surface bound electron states in a 3D topological insulator: analytical and numerical approaches. <i>Journal of Physics Condensed Matter</i> , 2014 , 26, 485003	1.8	8
85	Change in the electronic properties of an InAs (111)A surface at oxygen and fluorine adsorption. <i>Semiconductors</i> , 2012 , 46, 49-55	0.7	8
84	Comparison of urban areas based on database of topological relationships in geoinformational systems. <i>Pattern Recognition and Image Analysis</i> , 2015 , 25, 314-320	1	7

83	Temperature dependence of the dynamics of the first image-potential state on Ag(111). <i>Physical Review B</i> , 2012 , 86,	3.3	7
82	Chlorine adsorption on the InAs (001) surface. <i>Semiconductors</i> , 2011 , 45, 21-29	0.7	7
81	Electronic structure and long-period states in Ag ₃ Mg: comparison with Cu-Au alloys. <i>Journal of Physics Condensed Matter</i> , 2000 , 12, 8825-8830	1.8	7
80	Deep Insight Into the Electronic Structure of Ternary Topological Insulators: A Comparative Study of PbBi ₄ Te ₇ and PbBi ₆ Te ₁₀ . <i>Physica Status Solidi - Rapid Research Letters</i> , 2018 , 12, 1800341	2.5	7
79	Adhesion of niobium films to differently oriented Al ₂ O ₃ surfaces. <i>Technical Physics</i> , 2011 , 56, 1494-1500.	0.5	6
78	On different mechanisms of electron-phonon scattering of electron and hole excitations on an Ag(110) surface. <i>Journal of Experimental and Theoretical Physics</i> , 2010 , 110, 788-793	1	6
77	Diffusion properties of Cu(001)-c(2x2)Pd surface alloys. <i>Surface Science</i> , 2007 , 601, 3640-3644	1.8	6
76	Atomic and electron structure of the GaAs (001) surface. <i>Semiconductors</i> , 2007 , 41, 810-817	0.7	6
75	Investigation of Heusler alloy-semiconductor interfaces. <i>Physics of the Solid State</i> , 2008 , 50, 259-269	0.8	6
74	Electron-phonon interaction in the quantum well state of the 1 ML Na/Cu(111) system. <i>Physics of the Solid State</i> , 2008 , 50, 323-329	0.8	6
73	The electronic structure of grain boundaries in metals and alloys. <i>Computational Materials Science</i> , 2006 , 36, 244-248	3.2	6
72	Electronic structure and character of long-period superstructures in precious-metal alloys. <i>Computational Materials Science</i> , 2000 , 19, 275-284	3.2	6
71	C60 capping of metallic 2D TI-Au compound with preservation of its basic properties at the buried interface. <i>Applied Surface Science</i> , 2020 , 501, 144253	6.7	6
70	Dimers of heavy p-elements of groups IV-VI: Electronic, vibrational, and magnetic properties. <i>JETP Letters</i> , 2016 , 103, 471-475	1.2	5
69	Backward Reconstructions on GaAs(001) Surface Induced by Atomic Hydrogen Reactions: Surfactant-Assisted Low-Temperature Surface Ordering. <i>Journal of Physical Chemistry C</i> , 2013 , 117, 9723-9733	3.8	5
68	Ferromagnetic HfO ₂ /Si/GaAs interface for spin-polarimetry applications. <i>Applied Physics Letters</i> , 2015 , 107, 123506	3.4	5
67	Vacancies at the surfaces of F.C.C. metals. <i>Russian Physics Journal</i> , 1997 , 40, 276-284	0.7	5
66	Ab initio investigations of magnetic properties of thin film Heusler alloys. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2008 , 481-482, 209-213	5.3	5

65	Phonons in the ordered $c(2\sqrt{2})$ phases of Na and Li on Al(001). <i>Journal of Physics Condensed Matter</i> , 2007 , 19, 266005	1.8	5
64	Fabrication and characterization of a single monolayer NiSi ₂ sandwiched between a Tl capping layer and a Si(1 1 1) substrate. <i>2D Materials</i> , 2020 , 7, 025009	5.9	5
63	One-dimensional Rashba states in Pb atomic chains on a semiconductor surface. <i>Physical Review B</i> , 2020 , 102,	3.3	5
62	Specific features of the electronic, spin, and atomic structures of a topological insulator Bi ₂ Te _{2.4} Se _{0.6} . <i>Physics of the Solid State</i> , 2016 , 58, 779-787	0.8	5
61	Atomic arrangement and electron band structure of Si(1 1 1)- $\sqrt{3}\times\sqrt{3}$ -Bi reconstruction modified by alkali-metal adsorption: ab initio study. <i>Journal of Physics Condensed Matter</i> , 2015 , 27, 305003	1.8	4
60	Contribution of phonons to the line width of surface electronic states on Pd(111). <i>Physics of the Solid State</i> , 2011 , 53, 2508-2514	0.8	4
59	Vibrations on Al surfaces covered by sodium. <i>Surface Science</i> , 2006 , 600, 3921-3923	1.8	4
58	Theoretical study of the surface electronic structure and hydrogen adsorption properties in advanced hydrogen storage materials. <i>Computational Materials Science</i> , 2006 , 36, 102-105	3.2	4
57	Effective Many-Body Interatomic Potentials in Molecular Dynamic Simulations. <i>Russian Physics Journal</i> , 2005 , 48, 646-656	0.7	4
56	Al ₃ Ti alloy: long-period states and electronic structure. <i>Journal of Physics Condensed Matter</i> , 2002 , 14, 8763-8769	1.8	4
55	Two-dimensional incommensurate superlattices in precious-metals alloys: Nature of formation. <i>JETP Letters</i> , 1999 , 69, 589-595	1.2	4
54	Two-dimensional metallic (Tl,Au)/Si(100) $c(2\sqrt{2})$: A Rashba-type system with C _{2v} symmetry. <i>Physical Review B</i> , 2018 , 98,	3.3	4
53	Submonolayer Adsorption of Potassium on Reconstructed and Unreconstructed Cu(110): Structure and Phonons. <i>Journal of Physical Chemistry C</i> , 2017 , 121, 22969-22976	3.8	3
52	Algorithm for selecting homogeneous regions from a set of spatial objects 2017 ,		3
51	Method of calculating the electron-phonon scattering of surface electronic states on the (110) surface of noble metals. <i>Russian Physics Journal</i> , 2011 , 54, 92-101	0.7	3
50	Reconstruction dependence of the etching and passivation of the GaAs(001) surface. <i>JETP Letters</i> , 2010 , 91, 466-470	1.2	3
49	New Ga-enriched reconstructions on the GaAs(001) surface. <i>JETP Letters</i> , 2009 , 89, 185-190	1.2	3
48	Vibrational properties of small cobalt clusters on the Cu(111) surface. <i>Physics of the Solid State</i> , 2009 , 51, 1271-1280	0.8	3

47	Vibrational states of the Pt(111)- $\sqrt{3} \times \sqrt{3}$ R30° surface structure. <i>Russian Physics Journal</i> , 2010 , 53, 396-403	0.7	3
46	Vacancies at low-index surfaces of transition metals and aluminum. <i>Physics of the Solid State</i> , 1997 , 39, 1230-1231	0.8	3
45	Vibrational properties of the Pt(111)- $\sqrt{2} \times \sqrt{2}$ -K surface superstructure. <i>Physics of the Solid State</i> , 2008 , 50, 1570-1578	0.8	3
44	On the nature of different temperature dependences of the size of antiphase domains in commensurate long-period structures. <i>Journal of Experimental and Theoretical Physics</i> , 2004 , 98, 565-571		3
43	Thallene: graphene-like honeycomb lattice of Tl atoms frozen on single-layer NiSi ₂ . <i>2D Materials</i> , 2020 , 7, 045026	5.9	3
42	Electronic structure and coexistence of superconductivity with magnetism in RbEuFe ₄ As ₄ . <i>Physical Review B</i> , 2021 , 103,	3.3	3
41	Topological states induced by local structural modification of the polar BiTeI(0001) surface. <i>New Journal of Physics</i> , 2018 , 20, 063035	2.9	3
40	2D Tl-Pb compounds on Ge(1 1 1) surface: atomic arrangement and electronic band structure. <i>Journal of Physics Condensed Matter</i> , 2017 , 29, 035001	1.8	2
39	Spatial objects classification algorithm on the basis of topological features of a form 2017 ,		2
38	Lifetimes of electronic excitations in unoccupied surface states and the image potential states on Pd(110). <i>Journal of Experimental and Theoretical Physics</i> , 2012 , 115, 673-680	1	2
37	Method for calculating the contribution of inelastic electron-electron scattering lifetimes of electronic states on (110) noble metal surfaces. <i>Russian Physics Journal</i> , 2012 , 54, 1196-1207	0.7	2
36	Electronic structure and excitations on clean and nanostructured metal surfaces. <i>European Physical Journal B</i> , 2010 , 75, 37-47	1.2	2
35	Vibrations of tetrahedral Co and Cu clusters on a Cu(111) surface. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2010 , 7, 2596-2599		2
34	Divacancy binding energy at metal surfaces. <i>Russian Physics Journal</i> , 1997 , 40, 579-583	0.7	2
33	Diffusional and vibrational properties of Cu(001)-c(2 \times 2)-Pd surface alloys. <i>Physics of the Solid State</i> , 2005 , 47, 758	0.8	2
32	Algorithms for Topological Analysis of Spatial Data. <i>Advances in Intelligent Systems and Computing</i> , 2020 , 81-92	0.4	2
31	(Tl, Au)/Si(1 1 1)[Formula: see text] 2D compound: an ordered array of identical Au clusters embedded in Tl matrix. <i>Journal of Physics Condensed Matter</i> , 2018 , 30, 025002	1.8	2
30	Electronic properties of the two-dimensional (Tl, Rb)/Si(1 1 1)[Formula: see text] compound having a honeycomb-like structure. <i>Journal of Physics Condensed Matter</i> , 2018 , 30, 415502	1.8	2

29	Magnetic Properties of Trimers of Heavy p-Elements of Groups IV-VI. <i>JETP Letters</i> , 2019 , 110, 211-216	1.2	1
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