

Sergey Eremeev

List of Publications by Year in Descending Order

Source: <https://exaly.com/author-pdf/6930224/sergey-eremeev-publications-by-year.pdf>

Version: 2024-04-25

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

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

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	MnBi ₂ Se ₄ -Based Magnetic Modulated Heterostructures. <i>Magnetism</i> , 2022 , 2, 1-9		
189	Structural and electronic properties of C fullerene network self-assembled on metal-covered semiconductor surfaces. <i>Journal of Chemical Physics</i> , 2021 , 154, 104703	3.9	1
188	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
187	Electronic structure and coexistence of superconductivity with magnetism in RbEuFe ₄ As ₄ . <i>Physical Review B</i> , 2021 , 103,	3.3	3
186	Synthesis and electronic properties of InSe bi-layer on Si(111). <i>Applied Surface Science</i> , 2021 , 539, 148144	6.7	0
185	Magnetic and vibrational properties of small chromium clusters on the Cu(111) surface. <i>Physical Chemistry Chemical Physics</i> , 2021 , 23, 7814-7821	3.6	0
184	Insight into the Temperature Evolution of Electronic Structure and Mechanism of Exchange Interaction in EuS. <i>Journal of Physical Chemistry Letters</i> , 2021 , 12, 8328-8334	6.4	1
183	One-dimensional spin-polarized electron channel in the two-dimensional PbBi compound on silicon. <i>Physical Review B</i> , 2021 , 104,	3.3	1
182	Band gap opening in the BiSbTeSe ₂ topological surface state induced by ferromagnetic surface reordering. <i>Physical Review Materials</i> , 2021 , 5,	3.2	1
181	Natural Topological Insulator Heterostructures. <i>Springer Handbooks</i> , 2020 , 449-470	1.3	
180	An Algorithm for Constructing a Topological Skeleton for Semi-structured Spatial Data Based on Persistent Homology. <i>Communications in Computer and Information Science</i> , 2020 , 16-26	0.3	1
179	Thallene: graphene-like honeycomb lattice of Tl atoms frozen on single-layer NiSi ₂ . <i>2D Materials</i> , 2020 , 7, 045026	5.9	3
178	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
177	C60 capping of metallic 2D Tl-Au compound with preservation of its basic properties at the buried interface. <i>Applied Surface Science</i> , 2020 , 501, 144253	6.7	6
176	One-dimensional Rashba states in Pb atomic chains on a semiconductor surface. <i>Physical Review B</i> , 2020 , 102,	3.3	5
175	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
174	Electronic Structures and Surface Reconstructions in Magnetic Superconductor RbEuFeAs. <i>Journal of Physical Chemistry Letters</i> , 2020 , 11, 9393-9399	6.4	10

173	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
172	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
171	Electronic band structure of three-dimensional topological insulators with different stoichiometry composition. <i>Physical Review B</i> , 2020 , 102,	3.3	1
170	Algorithms for Topological Analysis of Spatial Data. <i>Advances in Intelligent Systems and Computing</i> , 2020 , 81-92	0.4	2
169	Magnetic Properties of Trimers of Heavy p-Elements of Groups IV-VI. <i>JETP Letters</i> , 2019 , 110, 211-216	1.2	1
168	Surface electronic structure of bismuth oxychalcogenides. <i>Physical Review B</i> , 2019 , 100,	3.3	8
167	Phonons on Cu(001) surface covered by submonolayer alkali metals. <i>Journal of Physics Condensed Matter</i> , 2019 , 31, 125001	1.8	1
166	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
165	Heterostructures Based on Magnetic and Topological Insulators. <i>Russian Physics Journal</i> , 2019 , 61, 1964-1970		
164	Prediction and observation of an antiferromagnetic topological insulator. <i>Nature</i> , 2019 , 576, 416-422	50.4	333
163	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
162	Two-Dimensional In-Sb Compound on Silicon as a Quantum Spin Hall Insulator. <i>Nano Letters</i> , 2018 , 18, 4338-4345	11.5	16
161	(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
160	New Universal Type of Interface in the Magnetic Insulator/Topological Insulator Heterostructures. <i>Nano Letters</i> , 2018 , 18, 6521-6529	11.5	33
159	Two-dimensional metallic (Tl,Au)/Si(100)c(2D): A Rashba-type system with C _{2v} symmetry. <i>Physical Review B</i> , 2018 , 98,	3.3	4
158	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
157	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
156	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

155	Formation of the bismuth-bilayer film at BiTeCl surface by atomic hydrogen deposition. <i>Surface Science</i> , 2017 , 661, 10-15	1.8	
154	Quantum spin Hall insulators in centrosymmetric thin films composed from topologically trivial BiTeI trilayers. <i>Scientific Reports</i> , 2017 , 7, 43666	4.9	14
153	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
152	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
151	Large-Gap Magnetic Topological Heterostructure Formed by Subsurface Incorporation of a Ferromagnetic Layer. <i>Nano Letters</i> , 2017 , 17, 3493-3500	11.5	93
150	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
149	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
148	Algorithm for selecting homogeneous regions from a set of spatial objects 2017 ,		3
147	Theory versus experiment for a family of single-layer compounds with a similar atomic arrangement: (Tl,X)/Si(111) ₃ B(X=Pb,Sn,Bi,Sb,Te,Se). <i>Physical Review B</i> , 2017 , 96,	3.3	10
146	Structure and Properties of one- and Two-Dimensional Clusters of Groups IV-VI of Heavy Elements. <i>Russian Physics Journal</i> , 2017 , 60, 1218-1225	0.7	1
145	Two- and three-dimensional topological phases in BiTeX compounds. <i>Physical Review B</i> , 2017 , 96,	3.3	12
144	Spatial objects classification algorithm on the basis of topological features of a form 2017 ,		2
143	Spin-texture inversion in the giant Rashba semiconductor BiTeI. <i>Nature Communications</i> , 2016 , 7, 11621	17.4	52
142	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
141	Multiple Coexisting Dirac Surface States in Three-Dimensional Topological Insulator PbBiTe. <i>ACS Nano</i> , 2016 , 10, 3518-24	16.7	25
140	Mirror-symmetry protected non-TRIM surface state in the weak topological insulator Bi ₂ TeI. <i>Scientific Reports</i> , 2016 , 6, 20734	4.9	24
139	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
138	Temperature-driven topological quantum phase transitions in a phase-change material GeSbTe. <i>Scientific Reports</i> , 2016 , 6, 38799	4.9	15

137	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
136	Surface Dynamics of the Wetting Layers and Ultrathin Films on a Dynamic Substrate: (0.5 $\bar{1}$) ML Pb/Cu(111). <i>Journal of Physical Chemistry C</i> , 2016 , 120, 22304-22317	3.8	12
135	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
134	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
133	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
132	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
131	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
130	Electronic and spin structure of a family of Sn-based ternary topological insulators. <i>Physical Review B</i> , 2015 , 92,	3.3	19
129	Termination-dependent surface properties in the giant-Rashba semiconductors BiTeX (X=Cl, Br, I). <i>Physical Review B</i> , 2015 , 92,	3.3	19
128	Atomic structure and electronic properties of the two-dimensional (Au,Al)/Si(111)2 \times 2 compound. <i>Physical Review B</i> , 2015 , 92,	3.3	11
127	Ferromagnetic HfO ₂ /Si/GaAs interface for spin-polarimetry applications. <i>Applied Physics Letters</i> , 2015 , 107, 123506	3.4	5
126	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
125	Electronic band structure of a Tl/Sn atomic sandwich on Si(111). <i>Physical Review B</i> , 2015 , 91,	3.3	24
124	Direct measurement of the bulk spin structure of noncentrosymmetric BiTeCl. <i>Physical Review B</i> , 2015 , 91,	3.3	11
123	Electrically tunable in-plane anisotropic magnetoresistance in topological insulator BiSbTeSe ₂ nanodevices. <i>Nano Letters</i> , 2015 , 15, 2061-6	11.5	46
122	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
121	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
120	Spin texture of Bi ₂ Se ₃ thin films in the quantum tunneling limit. <i>Physical Review Letters</i> , 2014 , 112, 057601	6.1	56

119	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
118	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
117	Defect and structural imperfection effects on the electronic properties of BiTeI surfaces. <i>New Journal of Physics</i> , 2014 , 16, 075013	2.9	20
116	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
115	Electron dynamics of unoccupied states in topological insulators. <i>Journal of Electron Spectroscopy and Related Phenomena</i> , 2014 , 195, 258-262	1.7	20
114	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
113	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
112	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
111	Large spin splitting of metallic surface-state bands at adsorbate-modified gold/silicon surfaces. <i>Scientific Reports</i> , 2013 , 3, 1826	4.9	44
110	Circular dichroism and superdiffusive transport at the surface of BiTeI. <i>Physical Review Letters</i> , 2013 , 111, 126603	7.4	10
109	Experimental evidence of hidden topological surface states in PbBi ₄ Te ₇ . <i>Physical Review Letters</i> , 2013 , 111, 206803	7.4	33
108	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 ⁵	3.8	5
107	Bulk and surface Rashba splitting in single termination BiTeCl. <i>New Journal of Physics</i> , 2013 , 15, 085022	2.9	50
106	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
105	Bulk and surface electronic structure of SnBi ₄ Te ₇ topological insulator. <i>Applied Surface Science</i> , 2013 , 267, 146-149	6.7	9
104	Many-body effects on the Rashba-type spin splitting in bulk bismuth tellurohalides. <i>Physical Review B</i> , 2013 , 87,	3.3	33
103	New topological surface state in layered topological insulators: Unoccupied dirac cone. <i>JETP Letters</i> , 2013 , 96, 780-784	1.2	12
102	Magnetic proximity effect at the three-dimensional topological insulator/magnetic insulator interface. <i>Physical Review B</i> , 2013 , 88,	3.3	122

101	Magnetic proximity effect in the three-dimensional topological insulator/ferromagnetic insulator heterostructure. <i>Physical Review B</i> , 2013 , 88,	3.3	59
100	Rashba split surface states in BiTeBr. <i>New Journal of Physics</i> , 2013 , 15, 075015	2.9	42
99	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
98	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
97	Unoccupied topological states on bismuth chalcogenides. <i>Physical Review B</i> , 2012 , 86,	3.3	54
96	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
95	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
94	Natural sulfur-containing minerals as topological insulators with a wide band gap. <i>JETP Letters</i> , 2012 , 96, 322-325	1.2	19
93	Giant Rashba-type spin splitting at polar surfaces of BiTeI. <i>JETP Letters</i> , 2012 , 96, 437-444	1.2	34
92	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
91	Temperature dependence of the dynamics of the first image-potential state on Ag(111). <i>Physical Review B</i> , 2012 , 86,	3.3	7
90	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
89	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
88	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
87	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
86	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
85	Experimental verification of PbBi ₂ Te ₄ as a 3D topological insulator. <i>Physical Review Letters</i> , 2012 , 108, 206803	7.4	69
84	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

83	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
82	Comparative study of vibrations in submonolayer structures of potassium on Pt(111). <i>Journal of Physics Condensed Matter</i> , 2012 , 24, 104003	1.8	1
81	Momentum-resolved electron dynamics of image-potential states on Cu and Ag surfaces. <i>Physical Review B</i> , 2012 , 85,	3.3	15
80	Disentanglement of surface and bulk Rashba spin splittings in noncentrosymmetric BiTeI. <i>Physical Review Letters</i> , 2012 , 109, 116403	7.4	128
79	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
78	Inelastic electron-electron scattering for surface states on Cu(110) and Ag(110). <i>Physical Review B</i> , 2011 , 84,	3.3	13
77	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
76	Surfactant properties of cesium in molecular beam epitaxy of GaAs(100). <i>JETP Letters</i> , 2011 , 93, 585-590	1.2	37
75	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
74	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
73	Chlorine adsorption on the InAs (001) surface. <i>Semiconductors</i> , 2011 , 45, 21-29	0.7	7
72	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
71	Adhesion of niobium films to differently oriented Al ₂ O ₃ surfaces. <i>Technical Physics</i> , 2011 , 56, 1494-1500	0.5	6
70	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
69	Ab initio electronic structure of thallium-based topological insulators. <i>Physical Review B</i> , 2011 , 83,	3.3	50
68	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
67	Reconstruction dependence of the etching and passivation of the GaAs(001) surface. <i>JETP Letters</i> , 2010 , 91, 466-470	1.2	3
66	Ternary thallium-based semimetal chalcogenides TI-V-VI2 as a new class of three-dimensional topological insulators. <i>JETP Letters</i> , 2010 , 91, 594-598	1.2	35

65	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
64	Phonon-induced scattering of excited electrons and holes on (110) noble metal surfaces. <i>Physical Review B</i> , 2010 , 82,	3.3	11
63	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
62	Electronic structure of the NiMnSb-semiconductor (110) interface. <i>Physics of the Solid State</i> , 2010 , 52, 105-111	0.8	1
61	Model pseudopotential for the Cu(110) surface. <i>Physics of the Solid State</i> , 2010 , 52, 188-194	0.8	9
60	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
59	Electronic structure and adhesion on metal-aluminum-oxide interfaces. <i>Physics of the Solid State</i> , 2010 , 52, 2589-2595	0.8	16
58	Electronic structure and excitations on clean and nanostructured metal surfaces. <i>European Physical Journal B</i> , 2010 , 75, 37-47	1.2	2
57	Experimental realization of a three-dimensional topological insulator phase in ternary chalcogenide TlBiSe ₃ <i>Physical Review Letters</i> , 2010 , 105, 146801	7.4	180
56	Theoretical investigations of the (110) interface between the full Heusler alloys and GaAs. <i>Russian Physics Journal</i> , 2010 , 53, 225-230	0.7	1
55	Vibrational states of the Pt(111) $\sqrt{3} \times \sqrt{3}$ surface structure. <i>Russian Physics Journal</i> , 2010 , 53, 396-403	0.7	3
54	Model pseudopotential for the (110) surface of fcc noble metals. <i>Surface Science</i> , 2010 , 604, 804-810	1.8	19
53	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
52	Electron-phonon interaction in the quantum well state of the 1 ML Na/Cu(111) system 2010 , 50, 323		
51	Effect of oxygen vacancies on adhesion at the Nb/Al ₂ O ₃ and Ni/ZrO ₂ interfaces 2010 , 50, 543		
50	Investigation of Heusler alloy-semiconductor interfaces 2010 , 50, 259		
49	Quantum oscillations in coupled two-dimensional electron systems. <i>Physical Review Letters</i> , 2009 , 103, 026802	7.4	16
48	Vibrations of linear cobalt clusters on a stepped copper surface. <i>Russian Physics Journal</i> , 2009 , 52, 76-84	0.7	

47	New Ga-enriched reconstructions on the GaAs(001) surface. <i>JETP Letters</i> , 2009 , 89, 185-190	1.2	3
46	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
45	Ab-initio investigation of Ni(Fe)/ZrO ₂ (001) and NiFe/ZrO ₂ (001) interfaces. <i>Surface Science</i> , 2009 , 603, 2218-2225	1.8	17
44	Electronic structure and spin polarization at the NiMnSb/GaAs(110) interface. <i>Journal of Experimental and Theoretical Physics</i> , 2009 , 109, 339-344	1	
43	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
42	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
41	Hydrogen adsorption on low-index surfaces of B2 titanium alloys. <i>Physics of the Solid State</i> , 2009 , 51, 1281-1289	0.8	15
40	Theoretical study of hydrogen absorption near symmetric tilt grain boundaries in Pd and TiFe. <i>Technical Physics</i> , 2009 , 54, 1204-1209	0.5	1
39	Vibrations of alkali metal overlayers on metal surfaces. <i>Journal of Physics Condensed Matter</i> , 2008 , 20, 224007	1.8	16
38	Vibrations of small cobalt clusters on low-index surfaces of copper: Tight-binding simulations. <i>Physical Review B</i> , 2008 , 78,	3.3	25
37	Vibrational states of a cobalt dimer on the (111) and (001) copper surfaces. <i>Russian Physics Journal</i> , 2008 , 51, 1327-1333	0.7	0
36	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
35	Investigation of Heusler alloy-semiconductor interfaces. <i>Physics of the Solid State</i> , 2008 , 50, 259-269	0.8	6
34	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
33	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
32	Vibrational properties of the Pt(111)-p(2 × 2)-K surface superstructure. <i>Physics of the Solid State</i> , 2008 , 50, 1570-1578	0.8	3
31	Electron-phonon coupling in a sodium monolayer on Cu(111). <i>Surface Science</i> , 2007 , 601, 4553-4556	1.8	22
30	Diffusion properties of Cu(001)-c(2 × 2)Pd surface alloys. <i>Surface Science</i> , 2007 , 601, 3640-3644	1.8	6

29	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
28	Atomic and electron structure of the GaAs (001) surface. <i>Semiconductors</i> , 2007 , 41, 810-817	0.7	6
27	Phonons in the ordered c(2 \times 2) phases of Na and Li on Al(001). <i>Journal of Physics Condensed Matter</i> , 2007 , 19, 266005	1.8	5
26	Thermally induced defects and the lifetime of electronic surface states. <i>Physical Review B</i> , 2007 , 75,	3.3	29
25	Vibrations on Al surfaces covered by sodium. <i>Surface Science</i> , 2006 , 600, 3921-3923	1.8	4
24	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
23	The electronic structure of grain boundaries in metals and alloys. <i>Computational Materials Science</i> , 2006 , 36, 244-248	3.2	6
22	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
21	Vibrations in submonolayer structures of Na on Cu(111). <i>Physical Review B</i> , 2006 , 74,	3.3	43
20	The Electronic Structure and Magnetic Properties of Full- and Half-Heusler Alloys. <i>Materials Transactions</i> , 2006 , 47, 599-606	1.3	53
19	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
18	Surface phonons on Al(111) surface covered by alkali metals. <i>Physical Review B</i> , 2005 , 71,	3.3	16
17	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
16	Effective Many-Body Interatomic Potentials in Molecular Dynamic Simulations. <i>Russian Physics Journal</i> , 2005 , 48, 646-656	0.7	4
15	Computer Simulated 3D Virtual Reality for Dynamical Modeling and Calculations of Carbon-Based Composite Materials. <i>Materials Research Society Symposia Proceedings</i> , 2004 , 821, 91		
14	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
13	Vibrational modes on the (Al ₁ (111) - ($\sqrt{3}\times\sqrt{3}$)R30 ^o - Na) surface. <i>Russian Physics Journal</i> , 2004 , 47, 1147-1153	0.7	
12	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

11	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
10	Al3Ti alloy: long-period states and electronic structure. <i>Journal of Physics Condensed Matter</i> , 2002 , 14, 8763-8769	1.8	4
9	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
8	Electronic structure and long-period states in Ag3Mg: comparison with Cu-Au alloys. <i>Journal of Physics Condensed Matter</i> , 2000 , 12, 8825-8830	1.8	7
7	Electronic structure and character of long-period superstructures in precious-metal alloys. <i>Computational Materials Science</i> , 2000 , 19, 275-284	3.2	6
6	Two-dimensional incommensurate superlattices in precious-metals alloys: Nature of formation. <i>JETP Letters</i> , 1999 , 69, 589-595	1.2	4
5	Vacancies at low-index surfaces of transition metals and aluminum. <i>Physics of the Solid State</i> , 1997 , 39, 1230-1231	0.8	3
4	Divacancy binding energy at metal surfaces. <i>Russian Physics Journal</i> , 1997 , 40, 579-583	0.7	2
3	Vacancies at the surfaces of F.C.C. metals. <i>Russian Physics Journal</i> , 1997 , 40, 276-284	0.7	5
2	Vibrations on the (110) surface of FCC metals. <i>Vacuum</i> , 1995 , 46, 625-628	3.7	13
1	Stress-Deformation Analysis by Fem-Based Computational Modeling of Fracture Mechanics of Carbon Hard Inclusions and Reinforced Composite Materials. <i>Ceramic Transactions</i> , 203-219	0.1	