

Mikhail V Kuznetsov

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115 papers	1,098 citations	16 h-index	28 g-index
119 ext. papers	1,216 ext. citations	2 avg, IF	3.85 L-index

#	Paper	IF	Citations
115	XPS analysis of adsorption of oxygen molecules on the surface of Ti and TiN _x films in vacuum. <i>Journal of Electron Spectroscopy and Related Phenomena</i> , 1992 , 58, 169-176	1.7	135
114	Electronic properties of Ti ₃ SiC ₂ -based solid solutions. <i>Physical Review B</i> , 1998 , 58, 16042-16050	3.3	124
113	XPS study of the nitrides, oxides and oxynitrides of titanium. <i>Journal of Electron Spectroscopy and Related Phenomena</i> , 1992 , 58, 1-9	1.7	68
112	Large-Scale Sublattice Asymmetry in Pure and Boron-Doped Graphene. <i>Nano Letters</i> , 2016 , 16, 4535-43	11.5	41
111	Influence of the deposition parameters on the composition, structure and X-ray photoelectron spectroscopy spectra of Ti ₃ N films. <i>Thin Solid Films</i> , 1992 , 215, 1-7	2.2	31
110	Metastable phase diagram of Ti ₃ SiN(O) films (C/Si). <i>Thin Solid Films</i> , 1999 , 339, 129-136	2.2	26
109	Photoelectron spectroscopy and diffraction of surface nanoscale NbO/Nb(110) structures. <i>Journal of Structural Chemistry</i> , 2009 , 50, 514-521	0.9	25
108	Atomic structure of Bi ₂ Se ₃ and Bi ₂ Te ₃ (111) surfaces probed by photoelectron diffraction and holography. <i>Physical Review B</i> , 2015 , 91,	3.3	23
107	Carbon deposition from aromatic solvents onto active intact 3d metal surface at ambient conditions. <i>Langmuir</i> , 2014 , 30, 3243-53	4	22
106	Structural, luminescence, and electronic properties of the alkaline metal-strontium cyclotetranadates M ₂ Sr(VO ₃) ₄ (M=Na, K, Rb, Cs). <i>Physical Review B</i> , 2005 , 72,	3.3	22
105	First-principles study of deformation behavior and structural defects in CuInSe ₂ and Cu(In,Ga)Se ₂ . <i>Physical Review B</i> , 2006 , 73,	3.3	22
104	Characterization of 1T-TiSe ₂ surface by means of STM and XPD experiments and model calculations. <i>Surface Science</i> , 2012 , 606, 1760-1770	1.8	19
103	Crystal structure and magnetic properties of double perovskite Mn ₂ FeSbO ₆ . <i>Materials Research Bulletin</i> , 2011 , 46, 1247-1251	5.1	19
102	Surface Magnetism of Cobalt-Doped Anatase TiO ₂ Nanopowders. <i>Journal of Physical Chemistry C</i> , 2016 , 120, 28857-28866	3.8	19
101	X-ray Photoelectron Spectroscopy of the Surface of Solid Electrolyte La _{0.88} Sr _{0.12} Ga _{0.82} Mg _{0.18} O ₃ . <i>Russian Journal of Electrochemistry</i> , 2003 , 39, 591-599	1.2	18
100	Structural, vibrational, electronic, and luminescence properties of the cyclotetranadates A ₂ M(VO ₃) ₄ (A=Na,Ag; M=Ca,Sr). <i>Physical Review B</i> , 2008 , 77,	3.3	17
99	Fluctuation of surface composition and chemical states at the hetero-interface in composites comprised of a phase with perovskite structure and a phase related to the Ruddlesden-Popper family of compounds. <i>RSC Advances</i> , 2013 , 3, 14114	3.7	16

98	Adsorption of carbon monoxide on Ti(0001). <i>Journal of Electron Spectroscopy and Related Phenomena</i> , 1998 , 96, 29-36	1.7	16
97	Kinetics of radiation-induced carbonization of poly(vinylidene fluoride) film surface. <i>Polymer Degradation and Stability</i> , 2008 , 93, 1952-1955	4.7	16
96	Sorbents based on modified polysiloxanes. <i>Inorganic Materials</i> , 2011 , 47, 435-441	0.9	15
95	Ion state of atoms and the properties of perovskite-like compound CaCu ₃ V ₄ O ₁₂ . <i>Russian Journal of Inorganic Chemistry</i> , 2007 , 52, 329-333	1.5	13
94	Electron-phonon coupling in graphene placed between magnetic Li and Si layers on cobalt. <i>Physical Review B</i> , 2018 , 97,	3.3	12
93	Effects of atomic relaxation and the electronic structure of niobium (100) and (110) surfaces. <i>Physics of Metals and Metallography</i> , 2006 , 102, 604-610	1.2	12
92	Chemical sensors based on a hydrochemically deposited lead sulfide film for the determination of lead in aqueous solutions. <i>Journal of Analytical Chemistry</i> , 2017 , 72, 327-332	1.1	11
91	Photoelectron Diffraction and Holography Studies of 2D Materials and Interfaces. <i>Journal of the Physical Society of Japan</i> , 2018 , 87, 061005	1.5	11
90	Synthesis and structure of quasi-one-dimensional zinc oxide doped with manganese. <i>Russian Journal of Inorganic Chemistry</i> , 2012 , 57, 72-78	1.5	11
89	Nature of heavy-atom disordering in the YBa ₂ Cu ₃ O _{6.8} (1.5 at % Ce) single crystal: X-ray photoelectron spectroscopy. <i>Physics of Metals and Metallography</i> , 2009 , 108, 569-578	1.2	11
88	A photoelectron spectroscopy study of the electronic structure evolution in CuInSe ₂ -related compounds at changing copper content. <i>Applied Physics Letters</i> , 2012 , 101, 111607	3.4	11
87	Incubation of PbSe Thin Films in a Tin(II) Salt Aqueous Solution: Modification and Ion-Exchange Reactions. <i>Journal of Materials Science and Technology</i> , 2015 , 31, 790-797	9.1	10
86	Investigation of TiC-C coatings by X-ray photoelectron spectroscopy. <i>Journal of Surface Investigation</i> , 2009 , 3, 331-337	0.5	10
85	Chemical interactions in the cathode half-cell of lithium-ion batteries. <i>Journal of Power Sources</i> , 2006 , 157, 477-482	8.9	10
84	Site- and spin-dependent coupling at the highly ordered h-BN/Co(0001) interface. <i>Physical Review B</i> , 2018 , 98,	3.3	10
83	X-Ray photoelectron diffraction and photoelectron holography as methods for investigating the local atomic structure of the surface of solids. <i>Russian Chemical Reviews</i> , 2014 , 83, 13-37	6.8	9
82	X-ray photoelectron spectra of magnetite nanopowders after chromium(VI) sorption from aqueous solutions. <i>Inorganic Materials</i> , 2012 , 48, 169-175	0.9	9
81	XPS study of catalytic compounds H ₂ V ₁₂ Me ₃ O ₃₁ H ₂ O (Me: Mo, Cr). <i>Journal of Electron Spectroscopy and Related Phenomena</i> , 1994 , 68, 579-588	1.7	9

80	Formation of a TiN _x protective layer by nitrogen ion implantation into titanium. <i>Vacuum</i> , 1991 , 42, 731-734	3.4	9
79	Native and graphene-coated flat and stepped surfaces of TiC. <i>Carbon</i> , 2018 , 132, 656-666	10.4	8
78	Effect of Radiation Defects on the Electronic Structure of Zircon by X-Ray Photoelectron Spectroscopy Data. <i>Journal of Structural Chemistry</i> , 2010 , 51, 657-662	0.9	8
77	Synthesis under usual conditions, X-ray photoelectron spectroscopy and magnetic properties of Re _{1-x} Mn _x O ₂ oxides with rutile structure. <i>Materials Chemistry and Physics</i> , 2010 , 124, 946-951	4.4	8
76	Photoelectron spectroscopy and diffraction of NbO _x /Nb(110) surface. <i>Physics of Metals and Metallography</i> , 2008 , 106, 56-66	1.2	8
75	Evolution of CuInSe ₂ (112) surface due to annealing: XPS study. <i>Surface Science</i> , 2003 , 530, L297-L301	1.8	8
74	XPS AND XPD ANALYSIS OF NITROGEN ADSORPTION ON THE Ti(0001) SURFACE. <i>Surface Review and Letters</i> , 1997 , 04, 1309-1314	1.1	7
73	X-Ray Photoelectron Diffraction. Possibilities of Surface Structural Analysis. <i>Journal of Structural Chemistry</i> , 2003 , 44, 465-498	0.9	7
72	Structure of epitaxial NbN films deposited by cathode reactive sputtering. <i>Thin Solid Films</i> , 1995 , 261, 64-69	2.2	7
71	X-ray photoelectron spectroscopy analysis of electronic states in the oxide layer on an ultradisperse copper surface. <i>Journal of Applied Spectroscopy</i> , 2009 , 76, 523-527	0.7	6
70	Oxide nanostructures on a Nb surface and related systems: experiments and ab initio calculations. <i>Physics-Uspexhi</i> , 2011 , 53, 995-1014	2.8	6
69	Scanning tunneling microscopy (STM) of low-dimensional NbO structures on the Nb(110) surface. <i>Physics of Metals and Metallography</i> , 2010 , 110, 531-541	1.2	6
68	Atomic Defects on the Surface of Quasi Two-Dimensional Layered Titanium Dichalcogenides: Stm Experiment and Quantum Chemical Simulation. <i>Journal of Structural Chemistry</i> , 2010 , 51, 737-743	0.9	6
67	Valence state of atoms in the perovskite-like phase Sr _x Cu ₃ V ₄ O ₁₂ (x = 0.67-1.0) and its properties. <i>Inorganic Materials</i> , 2007 , 43, 660-665	0.9	6
66	Metastable Ti ₆ SixNyO _z films of B1-type structure prepared by the arc process. <i>Thin Solid Films</i> , 1996 , 279, 75-81	2.2	6
65	Physicochemical characterization and antioxidant properties of cerium oxide nanoparticles. <i>Journal of Physics: Conference Series</i> , 2018 , 1115, 032094	0.3	6
64	Observation of hidden atomic order at the interface between Fe and topological insulator BiTe. <i>Physical Chemistry Chemical Physics</i> , 2017 , 19, 30520-30532	3.6	5
63	Diffusion of insoluble carbon in zirconium oxides. <i>JETP Letters</i> , 2011 , 93, 5-9	1.2	5

62	XPS study of nanorods of doped vanadium oxide $M \times V_2O_5 \cdot nH_2O$ ($M = Na, K, Rb, Cs$). <i>Russian Journal of Inorganic Chemistry</i> , 2011 , 56, 267-272	1.5	5
61	Titanium-doped vanadium oxide nanorods. <i>Russian Journal of Inorganic Chemistry</i> , 2006 , 51, 847-851	1.5	5
60	Synthesis, structure and spectroscopic characteristics of $Ti(O,C)_2$ /carbon nanostructured globules with visible light photocatalytic activity. <i>Bulletin of Materials Science</i> , 2016 , 39, 1569-1579	1.7	5
59	Decoding the structure of interfaces and impurities in 2D materials by photoelectron holography. <i>2D Materials</i> , 2019 , 6, 045046	5.9	4
58	$MxTiSe_2$ ($M=Cr, Mn, Cu$) electronic structure study by methods of resonance X-ray photoemission spectroscopy and X-ray absorption spectroscopy. <i>Journal of Physics and Chemistry of Solids</i> , 2012 , 73, 1562-1565	3.9	4
57	XPS and XPD investigation of (112) $CuInSe_2$ and $Cu(InGa)Se_2$ surfaces. <i>Thin Solid Films</i> , 2004 , 451-452, 137-140	2.2	4
56	Synthesis, Structure, and Properties of Ammonium Polyvanadomolybdate Xerogels. <i>Inorganic Materials</i> , 2001 , 37, 408-412	0.9	4
55	Deposition conditions, composition, and structure of chemically deposited In_2Se_3 films. <i>Russian Journal of Inorganic Chemistry</i> , 2016 , 61, 488-495	1.5	4
54	Effects of Ar^+ etching of $Cu_2ZnSnSe_4$ thin films: An x-ray photoelectron spectroscopy and photoluminescence study. <i>Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics</i> , 2018 , 36, 061208	1.3	4
53	Observation of ferromagnetism at room temperature in polycrystalline $Zn_{1-x}Fe_xO$ solid solutions synthesized by the precursor method. <i>Physics of the Solid State</i> , 2015 , 57, 1079-1088	0.8	3
52	Thermal oxidation of the surface of binary aluminum alloys with rare-earth metals. <i>Russian Journal of Physical Chemistry A</i> , 2015 , 89, 852-856	0.7	3
51	Structural, Magnetic, and XPS Studies of the Double-Perovskite Mn_2VSbO_6 . <i>Journal of Superconductivity and Novel Magnetism</i> , 2018 , 31, 2907-2914	1.5	3
50	Colloidal branched $CdSe/CdS$ nanospiders with 2D/1D heterostructure. <i>Nanotechnology</i> , 2018 , 29, 395604	3.4	3
49	Composition and submicron structure of chemically deposited $Cu_2Se-In_2Se_3$ films. <i>Technical Physics Letters</i> , 2012 , 38, 290-293	0.7	3
48	Segregation of calcium on the surface of aluminum-based powders and its effect on oxidation kinetics. <i>Protection of Metals and Physical Chemistry of Surfaces</i> , 2012 , 48, 631-635	0.9	3
47	Possibilities of using composite track membranes with nitride coating for fractionation of microelements in natural water. <i>Radiochemistry</i> , 2011 , 53, 103-109	0.9	3
46	On the nature of state with a charge-density wave in $TiSe_2$ from data of scanning tunneling microscopy. <i>Physics of the Solid State</i> , 2011 , 53, 1073-1077	0.8	3
45	MoO_3 nanorods. <i>Russian Journal of Inorganic Chemistry</i> , 2008 , 53, 1686-1690	1.5	3

44	Mechanisms of Ag penetration into the ceramics of Ag/Bi-2223 ribbon composites. <i>Physica C: Superconductivity and Its Applications</i> , 2002 , 371, 243-257	1.3	3
43	Cubic Solid-solution $\text{Ti}_x\text{Si}_y\text{N}_z(\text{O})$ Films: Synthesis, Structure and Electronic Properties. <i>Mendeleev Communications</i> , 1995 , 5, 94-96	1.9	3
42	Influence of the Conditions of the Chemical Bath Deposition of Thin ZnSe Films on Their Morphology and Internal Mechanical Stresses. <i>Russian Journal of Applied Chemistry</i> , 2018 , 91, 1528-1537 ^{0.8}		3
41	Copper(I) Selenide Thin Films: Composition, Morphology, Structure, and Optical Properties. <i>Semiconductors</i> , 2018 , 52, 1334-1340	0.7	3
40	Composition, Structure, and Semiconductor Properties of Chemically Deposited SnSe Films. <i>Semiconductors</i> , 2019 , 53, 853-859	0.7	2
39	XPS study of $\text{MxTi}_{0.91}\text{V}_{0.09}\text{O}_2 + \text{H}_2\text{O}$ (M = Co, Fe) nanoscale oxides. <i>Mendeleev Communications</i> , 2014 , 24, 17-19	1.9	2
38	Structure and composition of chemically deposited In_2S_3 thin films. <i>Journal of Surface Investigation</i> , 2014 , 8, 659-665	0.5	2
37	X-ray photoelectron spectra and composition of $\text{YBa}_2\text{Cu}_3\text{O}_7$ films prepared by laser ablation. <i>Physics of the Solid State</i> , 2014 , 56, 659-665	0.8	2
36	Atomic structure of a 1T-TiSe ₂ surface layer from photoelectron and Auger electron holography data. <i>JETP Letters</i> , 2012 , 95, 372-379	1.2	2
35	Investigation of a stainless-steel surface irradiated with protons in an iodine medium. <i>Journal of Surface Investigation</i> , 2013 , 7, 322-327	0.5	2
34	Crystal structure and chemical composition of titanium oxide nanopowders. <i>Nanotechnologies in Russia</i> , 2013 , 8, 482-488	0.6	2
33	Surface activity of barium and its effect on the reactivity of aluminum-based powder. <i>Protection of Metals and Physical Chemistry of Surfaces</i> , 2013 , 49, 712-716	0.9	2
32	Charge state of copper ions in the $\text{YBa}_2\text{Cu}_3\text{O}_{6.8}$ single crystal (1.5 at % Ce): X-ray photoelectron and absorption studies. <i>Physics of Metals and Metallography</i> , 2011 , 111, 361-366	1.2	2
31	X-ray photoelectron spectroscopy of ultradispersed copper alloy powder surface after processing by fluorinated polyethers. <i>Journal of Surface Investigation</i> , 2011 , 5, 447-453	0.5	2
30	Sodium-doped vanadium oxide nanorods. <i>Russian Journal of Inorganic Chemistry</i> , 2008 , 53, 854-857	1.5	2
29	Surface quasi-ordered nanostructures $\text{NbO}_x/\text{Nb}(110)$: investigation by surface analysis methods. <i>Bulletin of the Russian Academy of Sciences: Physics</i> , 2008 , 72, 1318-1322	0.4	2
28	Nanocomposites of $\text{V}_{1.67}\text{M}_{0.33}\text{O}_{5+\delta} \cdot n\text{H}_2\text{O}$ (M = Ti or Mo) xerogels intercalated with hydroquinone and poly(vinyl alcohol). <i>Russian Journal of Inorganic Chemistry</i> , 2006 , 51, 1339-1344	1.5	2
27	Molecular dynamics simulations of defect formation in thin graphite films using the density functional tight-binding method. <i>Journal of Structural Chemistry</i> , 2016 , 57, 808-811	0.9	2

26	Oxygen surface exchange and diffusion in mayenite single crystal. <i>Physical Chemistry Chemical Physics</i> , 2019 , 21, 24740-24748	3.6	2
25	On the energy transfer in LiMgPO ₄ doped with rare-earth elements. <i>Journal of Materials Chemistry C</i> , 2021 , 9, 11272-11283	7.1	2
24	Photocatalytic Properties of Hollow BiFeO ₃ Spheres. <i>Russian Journal of Applied Chemistry</i> , 2019 , 92, 1134-1141	1.1	1
23	Photoinduced Oxidation of a Surface of CaV _{0.5} Mo _{0.5} O ₃ . <i>Russian Journal of Physical Chemistry A</i> , 2018 , 92, 195-199	0.7	1
22	Thermal and Thermo-Oxidative Destruction of Poly(Ethylene Terephthalate) Modified with Formulation Based on Polyfluorinated Alcohol. <i>Russian Journal of Applied Chemistry</i> , 2018 , 91, 412-416	0.8	1
21	X-ray photoelectron spectroscopy of ceramic composites Bi,Pb-2223/Ag annealed in an atmosphere with a reduced content of oxygen (7.5% O ₂ + 92.5% N ₂). <i>Physics of Metals and Metallography</i> , 2012 , 113, 365-371	1.2	1
20	Oxygen atomic displacement waves in the lattice of the Bi,Pb-2223 phase composite annealed in an atmosphere with a low oxygen (O ₂ + N ₂) content. <i>Physics of the Solid State</i> , 2012 , 54, 248-254	0.8	1
19	Observing of Ti, Cr and Mn 2p-3d resonance in valence band of titanium dichalcogenides. <i>Journal of Physics: Conference Series</i> , 2013 , 425, 102004	0.3	1
18	Synthesis and native defectivity of Zn _{1-x} V _x O (0 ≤ x ≤ 0.03) photocatalysts. <i>Bulletin of the Russian Academy of Sciences: Physics</i> , 2013 , 77, 305-308	0.4	1
17	Investigating the surface of particles of ultradispersed copper powders obtained by gas-phase condensation. <i>Russian Journal of Non-Ferrous Metals</i> , 2013 , 54, 85-92	0.8	1
16	Substituted bismuth vanadates and chromates: New aspects. <i>Russian Journal of Inorganic Chemistry</i> , 2017 , 62, 1441-1449	1.5	1
15	Production of semicokes with increased content of nitrogen by cocarbonization of various cakes with polyacrylonitrile. <i>Russian Journal of Applied Chemistry</i> , 2011 , 84, 2088-2092	0.8	1
14	²³ Na NMR in binary lithium-sodium cobaltite. <i>Bulletin of the Russian Academy of Sciences: Physics</i> , 2011 , 75, 1157-1159	0.4	1
13	X-ray photoelectron spectroscopy of a complicated ceramic oxide of the system BeO-TiO ₂ . <i>Glass and Ceramics (English Translation of Steklo i Keramika)</i> , 2011 , 67, 322-327	0.6	1
12	Investigation of quasicrystalline Al _{62.5} Cu ₂₅ Fe _{12.5} and crystalline FeAl ₅₀ Cu ₃₃ Fe ₁₇ alloys by X-ray photoelectron spectroscopy. <i>Bulletin of the Russian Academy of Sciences: Physics</i> , 2007 , 71, 628-631	0.4	1
11	Effect of Silver Nanoparticles on the Sorption Characteristics of La _{1-x} Ag _x MnO ₃ . <i>Russian Journal of Physical Chemistry A</i> , 2018 , 92, 516-521	0.7	0
10	Synthesis and properties of Pb _{1-x} V _x O _{2-x} (OH) _x solid solutions. <i>Inorganic Materials</i> , 2000 , 36, 49-53	0.9	0
9	Physicochemical Studies of Al-Ti Alloy Powder and Material on Its Basis Produced under Nonoptimal Conditions of 3D Printing. <i>Protection of Metals and Physical Chemistry of Surfaces</i> , 2020 , 56, 693-699	0.9	0

- 8 Electronic structure and inner-shell excited luminescence in gadolinium molybdate single crystals. *Journal of Surface Investigation*, **2016**, 10, 205-209 0.5
- 7 Synthesis and properties of $(\text{VO})_{0.09}\text{V}_{0.18}\text{Mo}_{0.82}\text{O}_3 \cdot 0.54\text{H}_2\text{O}$ microrods. *Russian Journal of Inorganic Chemistry*, **2011**, 56, 1858-1863 1.5
- 6 Morphology and Magnetic Properties of Hollow Co_3O_4 Spheres. *Physics of the Solid State*, **2020**, 62, 2332-2339 2.8
- 5 Silicon-Reduced Graphene Oxide Composite as Negative Electrode of Li-Ion Batteries. *Russian Journal of Applied Chemistry*, **2020**, 93, 1940-1946 0.8
- 4 Enhanced surface sensitivity of X-ray photoelectron holography through the example of $\text{Bi}_2\text{Te}_3(1\ 1\ 1)$ surface. *Applied Surface Science*, **2020**, 505, 144531 6.7
- 3 Structure and Photoelectric Properties of PbSe Films Deposited in the Presence of Ascorbic Acid. *Semiconductors*, **2020**, 54, 1191-1197 0.7
- 2 Anion-Substituted Garnets $\text{Ca}_3\text{Mn}_2\text{[(Ni, Co)}_x\text{V}_y\text{Ge}_3\text{]}_y\text{O}_{12}$ ($x = 0, 1; y = 0, 1, 2$): Preparation and Characterization. *Russian Journal of Inorganic Chemistry*, **2018**, 63, 1268-1273 1.5
- 1 The Effect of the Lithium Borate Surface Layer on the Electrochemical Properties of the Lithium-Ion Battery Positive Electrode Material $\text{LiNi}_{1/3}\text{Mn}_{1/3}\text{Co}_{1/3}\text{O}_2$. *Russian Journal of Electrochemistry*, **2021**, 57, 1055-1069 1.2