Alexei T Kozakov

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#	Paper	IF	Citations
102	X-ray photoelectron study of the valence state of iron in iron-containing single-crystal (BiFeO3, PbFe1/2Nb1/2O3), and ceramic (BaFe1/2Nb1/2O3) multiferroics. <i>Journal of Electron Spectroscopy and Related Phenomena</i> , 2011 , 184, 16-23	1.7	72
101	Humidity-dependent friction mechanism in an ultrananocrystalline diamond film. <i>Journal Physics D: Applied Physics</i> , 2013 , 46, 275501	3	47
100	Valence state of the manganese ions in mixed-valence La1\(\text{BiM}\)n1+\(\text{D}3\(\text{H}\)ceramics by Mn 2p and Mn 3s X-ray photoelectron spectra. <i>Journal of Electron Spectroscopy and Related Phenomena</i> , 2012 , 185, 175-183	1.7	41
99	Valence and magnetic state of transition-metal and rare-earth ions in single-crystal multiferroics RMn2O5 (R=Y, Bi, Eu, Gd) from X-ray photoelectron spectroscopy data. <i>Journal of Electron Spectroscopy and Related Phenomena</i> , 2011 , 184, 508-516	1.7	35
98	Single-crystal rare earths manganites La1₩BixAyMn⊞O3⊞(A = Ba, Pb): Crystal structure, composition, and Mn ions valence state. X-ray diffraction and XPS study. <i>Journal of Electron Spectroscopy and Related Phenomena</i> , 2013 , 186, 14-24	1.7	32
97	Valence state of manganese and iron ions in La1NAxMnO3 (A = Ca, Sr) and Bi1NSrxFeO3 systems from Mn2p, Mn3s, Fe2p and Fe3s X-ray photoelectron spectra. Effect of delocalization on Fe3s spectra splitting. <i>Journal of Alloys and Compounds</i> , 2015 , 647, 947-955	5.7	26
96	Bi1-Ca FeO3- (0 িk 🗓) ceramics: Crystal structure, phase and elemental composition, and chemical bonding from X-ray diffraction, Raman scattering, M\(\beta\)sbauer, and X-ray photoelectron spectra. Journal of Alloys and Compounds, 2016 , 664, 392-405	5.7	26
95	Superlubrication properties of ultra-nanocrystalline diamond film sliding against a zirconia ball. <i>RSC Advances</i> , 2015 , 5, 100663-100673	3.7	21
94	X-ray photoelectron study of temperature effect on the valence state of Mn in single crystal YMnO 3. <i>Journal of Electron Spectroscopy and Related Phenomena</i> , 2014 , 195, 1-7	1.7	21
93	Structure, non-stoichiometry, valence of ions, dielectric and magnetic properties of single-phase Bi0.9La0.1FeO3[multiferroics. <i>Journal of Magnetism and Magnetic Materials</i> , 2019 , 483, 100-113	2.8	19
92	Bias Field Effect on Dielectric and Pyroelectric Properties of (1-x)Pb(Fe1/2Nb1/2)O3NPbTiO3 Ceramics. <i>Ferroelectrics</i> , 2009 , 389, 107-113	0.6	18
91	X-ray photoelectron spectroscopy and low temperature M\(\bar{B}\)sbauer study of Ce3+ substituted MnFe2O4. <i>Journal of Materials Science: Materials in Electronics</i> , 2019 , 30, 10162-10171	2.1	16
90	Liquid-phase sintered bismuth ferrite multiferroics and their giant dielectric constant. <i>Ceramics International</i> , 2019 , 45, 14873-14879	5.1	15
89	Valence state of transition metal ions in Co1Ee Cr2O4 (x= 0.1, 0.2, 0.5) ceramics from X-ray photoelectron and MBsbauer spectroscopy data. <i>Journal of Alloys and Compounds</i> , 2015 , 636, 241-248	5.7	15
88	Solvothermal synthesis of Sm-doped FeO nanoparticles. <i>Materials Science and Engineering C</i> , 2017 , 80, 110-116	8.3	14
87	Phase transitions, dielectric properties and valence of magnetic ions in PbFe0.5☑ Cr x Nb0.5O3 multiferroic ceramics. <i>Journal of Materials Science</i> , 2017 , 52, 10140-10155	4.3	14
86	Electronic structure of bismuth ferrite and hematite single crystals: X-ray photoelectron study and calculation. <i>Physics of the Solid State</i> , 2011 , 53, 41-47	0.8	14

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85	Load dependent friction coefficient of crystalline graphite and anomalous behavior of wear dimension. <i>Tribology International</i> , 2015 , 88, 280-289	4.9	11
84	Chemical bonding in the Bi1⊠SrxFeO3∃y system by X-ray photoelectron and M⊠sbauer spectroscopy. <i>Journal of Electron Spectroscopy and Related Phenomena</i> , 2013 , 189, 106-115	1.7	11
83	Surface and bulk phase analysis of the tribolayer of nanocrystalline diamond films sliding against steel balls. <i>Diamond and Related Materials</i> , 2019 , 97, 107472	3.5	10
82	Role of transfer layer on tribological properties of nanocrystalline diamond nanowire film sliding against alumina allotropes. <i>Diamond and Related Materials</i> , 2014 , 48, 6-18	3.5	10
81	Chemical bonding and valence state of 3d-metal ions in Ni 1½ Co x Cr 2 O 4 spinels from X-ray diffraction and X-ray photoelectron spectroscopy data. <i>Journal of Electron Spectroscopy and Related Phenomena</i> , 2014 , 195, 208-219	1.7	10
80	Study of friction and wear in the wheel-rail system by X-ray electron and auger-electron spectroscopy and quantum chemistry. <i>Journal of Friction and Wear</i> , 2010 , 31, 11-22	0.9	10
79	Improving the lubricating properties of 10W40 oil using oxidized graphite additives. <i>Journal of Friction and Wear</i> , 2017 , 38, 349-354	0.9	9
78	Valence state of cations in manganites Pr1-Ca MnO3 (0.3 ILID.5) from X-ray diffraction and X-ray photoelectron spectroscopy. <i>Journal of Alloys and Compounds</i> , 2018 , 740, 132-142	5.7	9
77	Tribochemical aspects of interactions between high-dispersed serpentine particles and metal friction surface. <i>Journal of Friction and Wear</i> , 2012 , 33, 108-114	0.9	9
76	Improvement of performance of lubricating materials with additives of clayey minerals. <i>Journal of Friction and Wear</i> , 2011 , 32, 442-451	0.9	9
75	Study of the phase composition and tribological properties of carbon tool steels after laser surface hardening by quasi - CW fiber laser. <i>Surface and Coatings Technology</i> , 2020 , 385, 125427	4.4	9
74	Controlled atmosphere dependent tribological properties of thermally annealed ultrananocrystalline diamond films. <i>Diamond and Related Materials</i> , 2019 , 97, 107437	3.5	8
73	Eystal structure, valence state of ions and magnetic properties of HoFeO3 and HoFe0.8Sc0.2O3 nanoparticles from X-ray diffraction, X-ray photoelectron, and MEsbauer spectroscopy data. <i>Journal of Alloys and Compounds</i> , 2020 , 842, 155805	5.7	8
72	Temperature effect on X-ray photoelectron spectra of 3d transition metal ions. <i>Journal of Electron Spectroscopy and Related Phenomena</i> , 2014 , 195, 200-207	1.7	8
71	Microstructure, chemical bonds, and friction properties of nanocrystalline diamond films deposited in two different plasma media. <i>Physics of the Solid State</i> , 2013 , 55, 2076-2087	0.8	8
70	Determination of sp2 and sp3 phase fractions on the surface of diamond films from C1s, valence band X-ray photoelectron spectra and CKVV X-ray-excited Auger spectra. <i>Applied Surface Science</i> , 2021 , 536, 147807	6.7	8
69	Phase transitions, dielectric, magnetic properties and valence of ions in AFe2/3W1/3O3⊞[A⊞ Ba, Sr) multiferroic ceramics. <i>Journal of Alloys and Compounds</i> , 2018 , 740, 1037-1045	5.7	7
68	Temperature dependence of the concentration of surface phases in a BaTiO3 single crystal according to X-ray photoelectron spectroscopy data. <i>Bulletin of the Russian Academy of Sciences:</i> Physics, 2012 , 76, 120-124	0.4	7

67	Using auger electron spectroscopy for studying the composition of the surface of multicomponent alloys under the effect of pulsed laser irradiation. <i>Inorganic Materials: Applied Research</i> , 2011 , 2, 254-26	o ^{0.6}	7
66	Valence state of B and Ta cations in the AB1/2Ta1/2O3 ceramics (A = Ca, Sr, Ba, Pb; B = Fe, Sc) from X-ray photoelectron and M\(\bar{B}\)sbauer spectroscopy data. <i>Journal of Electron Spectroscopy and Related Phenomena</i> , 2020 , 239, 146918	1.7	7
65	Quantum Confinement Effect in a Nanoscale Mo/Si Multilayer Structure. <i>Journal of Physical Chemistry C</i> , 2020 , 124, 17795-17805	3.8	7
64	Friction anisotropy in boronated graphite. <i>Applied Surface Science</i> , 2015 , 324, 443-454	6.7	6
63	Deactivation of Co-Al2O3/SiO2 Fischer Trospch Synthesis Catalyst in Industrially Relevant Conditions. <i>Catalysis Letters</i> , 2020 , 150, 1932-1941	2.8	6
62	Relaxation dynamics, phase pattern in the vicinity of the Curie temperature, Fe valent state and the MBsbauer effect in PFN ceramics. <i>Ceramics International</i> , 2012 , 38, 6157-6161	5.1	6
61	Surface compositions of 9XC and R6M5 tool steels after laser pulse irradiation according to X-ray photoelectron spectroscopy data. <i>Journal of Surface Investigation</i> , 2011 , 5, 431-439	0.5	6
60	Tribofilm stability of ionic liquid functionalized graphene-oxide in metallic contact interfaces. Journal of Molecular Liquids, 2019 , 296, 111813	6	6
59	Valence state of manganese ions in the La1日 BiLaMnLa1DLa3日Deramics. <i>Physics of the Solid State</i> , 2013 , 55, 743-747	0.8	5
58	Electron emission from charged surfaces of ferroelectrics-electrets: Part 1. Properties of the electron emission. <i>Journal of Electron Spectroscopy and Related Phenomena</i> , 2005 , 142, 59-66	1.7	5
57	Electron emission from charged surfaces of ferroelectrics-electrets. <i>Journal of Electron Spectroscopy and Related Phenomena</i> , 2005 , 142, 67-74	1.7	5
56	A new high-brightness stepped-crystal diffractor for X-ray microanalysis. <i>Technical Physics Letters</i> , 2001 , 27, 11-13	0.7	5
55	Electret state and surface composition of the PbMg13/Nb23/O3single crystal. <i>Journal Physics D: Applied Physics</i> , 1993 , 26, 967-971	3	5
54	Formation of Surface Structures under Friction in Synthetic Oils. <i>Journal of Friction and Wear</i> , 2020 , 41, 417-420	0.9	5
53	Auger and X-Ray Photoelectron Spectroscopy Study of the Tribocontact Surface after Laser Modification. <i>Materials Science Forum</i> , 2016 , 870, 298-302	0.4	5
52	Effects of doping of lead titanate with alkaline-earth elements. <i>Physics of the Solid State</i> , 2016 , 58, 115-	12.6	4
51	X-ray photoelectron study and first principle calculations of the electronic structure of PbFe1/2Nb1/2O3 single crystal in the ferroelectric and paraelectric phases. <i>Journal of Alloys and Compounds</i> , 2013 , 579, 401-405	5.7	4
50	Composition of an oxide layer formed by laser radiation and the structure of an oxide-metal interface on the surface of 9XC and P6M5 tool steels according to XPS. <i>Bulletin of the Russian Academy of Sciences: Physics</i> 2011 , 75, 635-638	0.4	4

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49	Study of the segregation processes and chemical bonding at equilibrium and nonequilibrium oxidation of the R6M5 alloy surface. <i>Bulletin of the Russian Academy of Sciences: Physics</i> , 2009 , 73, 694-6	96 ⁴	4
48	Phonon, plasmon and electronic properties of surfaces and interfaces of periodic W/Si and Si/W multilayers. <i>Physical Chemistry Chemical Physics</i> , 2021 , 23, 15076-15090	3.6	4
47	Isomorphism problems in lead-barium titanate. Journal of Alloys and Compounds, 2020, 829, 154589	5.7	3
46	Effect of sintering temperature on the chemical state of ions in the Ba1 $\!$ Sr x TiO3 (x = 0.2) system, according to X-ray photoelectron spectroscopy data. <i>Bulletin of the Russian Academy of Sciences: Physics</i> , 2014 , 78, 681-686	0.4	3
45	Ferropiezoelectric properties and microstructure of PbFe1/2Nb1/2O3 ceramics. <i>Bulletin of the Russian Academy of Sciences: Physics</i> , 2012 , 76, 782-785	0.4	3
44	Modelling of a Potential Relief on a Surface of Charged Polar Dielectrics. <i>Ferroelectrics</i> , 2007 , 353, 212-7	2846	3
43	Peculiarities of segregation phenomena at the surface of Pd x V1 lk alloys in an oxygen medium. <i>Journal of Surface Investigation</i> , 2007 , 1, 443-449	0.5	3
42	X-Ray-induced low-energy electron emission from solids (one-dimensional theoretical model). <i>Journal of Electron Spectroscopy and Related Phenomena</i> , 2001 , 120, 77-88	1.7	3
41	X-ray diffraction study of the dependence of the fine TiC structure on dispersion of hardening phase particles. <i>Acta Metallurgica Et Materialia</i> , 1995 , 43, 2115-2119		3
40	Regularities of complex-formation in the interaction of bis-(acetonitrile)palladium chloride with a polystyrene-polybutadiene block copolymer. <i>Polymer Science USSR</i> , 1987 , 29, 2653-2659		3
39	Mechanisms of structural thermal adaptability of silicate coatings. <i>Journal of Friction and Wear</i> , 2014 , 35, 141-148	0.9	2
38	Electronic structure of PbSc1/2Nb1/2O3 single-crystal ferroelectric-relaxor in the paraelectric and ferroelectric state. <i>Surface Science</i> , 2017 , 666, 1-8	1.8	2
37	Electronic structure of single-crystal solid solutions Pb1-Ba TiO3 (0 lk ll) from X-ray photoelectron spectroscopy and real-space multiple electron scattering calculations. <i>Journal of Alloys and Compounds</i> , 2017 , 695, 3170-3177	5.7	2
36	Electronic structure of a PbFe1/2Nb1/2O3 single crystal in the ferroelectric and paraelectric states, according to X-Ray photoelectron spectroscopy data and first principle calculations. <i>Bulletin of the Russian Academy of Sciences: Physics</i> , 2012 , 76, 1143-1145	0.4	2
35	The relaxation dynamics, iron valence state, and MBsbauer effect in PFN ceramics. <i>Bulletin of the Russian Academy of Sciences: Physics</i> , 2011 , 75, 731-733	0.4	2
34	Study of the segregation phenomena on the surface of binary alloys and steels in oxygen environment. <i>Bulletin of the Russian Academy of Sciences: Physics</i> , 2009 , 73, 690-693	0.4	2
33	Phase Composition and Tribological Characteristics of the Surface Layers of Carbon Tool Steels after Laser Processing in Air. <i>Journal of Surface Investigation</i> , 2021 , 15, 350-360	0.5	2
32	X-ray photoelectron studies of near surface oxidation and plasmon excitation in spatially confined bi- and tri- layers periodic multilayer mirrors. <i>Thin Solid Films</i> , 2021 , 717, 138449	2.2	2

31	Synthesis, Structure, and X-Ray Photoelectron Spectra of Cobalt and Copper Complexes with 2-{(E)-[2-(4-Hydroxybutylamino)benzimidazol-1-yl]iminomethyl}phenol. <i>Russian Journal of General Chemistry</i> , 2018 , 88, 2550-2558	0.7	2
30	Electron-beam-induced polarization of lithium- and manganese-modified lead ferroniobate ceramics and its respective emission phenomena. <i>Technical Physics</i> , 2014 , 59, 434-437	0.5	1
29	Electronic structure of single-crystal RMn2O5 multiferroics (R = Y, Bi, Eu, Gd) according to X-ray photoelectron spectroscopy data. <i>Journal of Surface Investigation</i> , 2012 , 6, 738-747	0.5	1
28	Anomalous electron emission spectra and polarization phenomena in a lead magnesium niobate single crystal. <i>Physics of the Solid State</i> , 1997 , 39, 1284-1288	0.8	1
27	Charge distribution in surface layers of polarized electret ceramics according to electron spectroscopy measurements. <i>Physics of the Solid State</i> , 2008 , 50, 2044-2052	0.8	1
26	Specific features and properties of lead-titanate-based anisotropic ceramics. <i>Ferroelectrics</i> , 1995 , 167, 223-228	0.6	1
25	Satellites in the x-ray M series. <i>Soviet Physics Journal (English Translation of Izvestiia Vysshykh Uchebnykh Zavedenii, Fizika)</i> , 1970 , 13, 1394-1395		1
24	Surface Modification Features of Tool Steels by Laser Radiation. <i>Journal of Friction and Wear</i> , 2020 , 41, 549-553	0.9	1
23	X-ray photoelectron spectroscopy study of an exchange bias system on the basis of Co70Fe30/Mn83Ir17 interface. <i>Journal of Applied Physics</i> , 2018 , 124, 155301	2.5	1
22	Effect of Nd: YAG pulsed laser radiation on oxidation and segregation processes in the surface layers of T8 high speed tool steel: Tribological consequences. <i>Applied Surface Science</i> , 2021 , 564, 15043	4 ^{6.7}	1
21	Gram-Scale Synthesis of CoO/C as Base for PtCo/C High-Performance Catalysts for the Oxygen Reduction Reaction. <i>Catalysts</i> , 2021 , 11, 1539	4	1
20	Characterization of Graphenic Carbon Produced by Pulsed Laser Ablation of Sacrificial Carbon Tapes. <i>Applied Sciences (Switzerland)</i> , 2021 , 11, 11972	2.6	1
19	Determining the valence state of manganese ions in complex oxides La1 $\overline{\mathbb{N}}$ Ca x MnO3 (x = 0.5, 0.7, 0.85, and 0.9) based on Mn2p and Mn3s X-ray photoelectron spectra. <i>Bulletin of the Russian Academy of Sciences: Physics</i> , 2016 , 80, 638-640	0.4	O
18	Phase formation and the formation of microstructures and macroscopic responses in BST ceramics. <i>Bulletin of the Russian Academy of Sciences: Physics</i> , 2016 , 80, 1364-1366	0.4	O
17	Effect of synthesis conditions on local atomic structure and properties of low-toxic maghemite nanoparticles for local magnetic hyperthermia in oncology. <i>Journal of Nanoparticle Research</i> , 2022 , 24, 1	2.3	О
16	The study of the pyrolysis products of Ni (II) and Pd (II) chelate complexes as catalysts for the oxygen electroreduction reaction. <i>Journal of Solid State Electrochemistry</i> , 2021 , 25, 789-796	2.6	O
15	Valence state and X-ray photoelectron 2p spectra of chromium ions in the La1 \square Sr x CrO3 (x = 0, 0.1, 0.3, 0.5) system. <i>Bulletin of the Russian Academy of Sciences: Physics</i> , 2017 , 81, 331-333	0.4	
14	Fine structure of the X-ray photoelectron Ni 2 p spectrum in Ni1⊠ Co x Cr2O4 compounds. <i>Bulletin of the Russian Academy of Sciences: Physics</i> , 2015 , 79, 1371-1375	0.4	

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13	Effect of polarization on the intensity of anomalous electron emission in the (1 \square x)PbMg1/3Nb2/3O3 + xPbTiO3 system. <i>Physics of the Solid State</i> , 2009 , 51, 1385-1389	0.8
12	Research of Electrophysical Properties of Superficial Layers and Interfaces in Polar Dielectric Materials on the Anomalous Electron Emission Spectra. <i>Ferroelectrics</i> , 2009 , 391, 22-32	0.6
11	Anomalous electron emission from lithium niobate and lithium tantalate single crystals. <i>Physics of the Solid State</i> , 1997 , 39, 594-597	0.8
10	Spectra of low-energy electrons excited by soft x rays. <i>Technical Physics</i> , 1997 , 42, 318-321	0.5
9	Soft X-ray radiation-induced electron emission from the surface of polarized ferroelectrics. <i>Journal of Structural Chemistry</i> , 1998 , 39, 844-849	0.9
8	Structure and optical properties of ZnO nanowires fabricated by pulsed laser deposition on GaN/Si(111) films with the use of Au and NiO catalysts. <i>Bulletin of the Russian Academy of Sciences: Physics</i> , 2008 , 72, 1129-1131	0.4
7	Physical aspects of the shape of electron emission spectra for ferroelectric electrets. <i>Physics of the Solid State</i> , 2002 , 44, 153-156	0.8
6	Potential relief on the surface of polarized ferroelectric electrets from an analysis of the anomalous electron emission spectra. <i>Physics of the Solid State</i> , 2003 , 45, 1288-1294	0.8
5	The effect of injected-charge spatial distribution on the x-ray induced electron emission intensity in ferroelectric electrets. <i>Physics of the Solid State</i> , 2000 , 42, 2148-2150	0.8
4	Focusing properties of the electric field between charged conical surfaces. <i>Soviet Physics Journal</i> (English Translation of Izvestiia Vysshykh Uchebnykh Zavedenii, Fizika), 1981 , 24, 927-931	
3	Structure of the short-wavelength L-series satellites. <i>Soviet Physics Journal (English Translation of Izvestiia Vysshykh Uchebnykh Zavedenii, Fizika</i>), 1969 , 12, 540-542	
2	Crystal Structure, Phase and Elemental Composition and Chemical Bonding in Bi1XAXFeO3\(\text{BY}\) Systems (A = Sr, Ca; 0 \(\mathbb{K}\) II) from X-ray Diffraction, M\(\mathbb{S}\)sbauer, and X-ray Photoelectron Spectra. Springer Proceedings in Physics, 2017 , 145-153	0.2
1	X-ray photoelectron and m\(\text{S}\) sbauer spectroscopy studies of the valence state of transition metal ions in Co1\(\text{N}\) Fe x Cr2O4 (x = 0.1, 0.2, 0.5) ceramics. <i>Physics of the Solid State</i> , 2016 , 58, 108-114	0.8