

Alexei T Kozakov

List of Publications by Year in Descending Order

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

102
papers

766
citations

14
h-index

22
g-index

105
ext. papers

903
ext. citations

2.2
avg, IF

4
L-index

#	Paper	IF	Citations
102	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	0
101	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
100	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	0
99	Determination of sp ² and sp ³ 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
98	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
97	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
96	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, 150434	6.7	1
95	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
94	Characterization of Graphenic Carbon Produced by Pulsed Laser Ablation of Sacrificial Carbon Tapes. <i>Applied Sciences (Switzerland)</i> , 2021 , 11, 11972	2.6	1
93	Crystal structure, valence state of ions and magnetic properties of HoFeO ₃ and HoFe _{0.8} Sc _{0.2} O ₃ nanoparticles from X-ray diffraction, X-ray photoelectron, and Mössbauer spectroscopy data. <i>Journal of Alloys and Compounds</i> , 2020 , 842, 155805	5.7	8
92	Isomorphism problems in lead-barium titanate. <i>Journal of Alloys and Compounds</i> , 2020 , 829, 154589	5.7	3
91	Deactivation of Co-Al ₂ O ₃ /SiO ₂ Fischer-Tropsch Synthesis Catalyst in Industrially Relevant Conditions. <i>Catalysis Letters</i> , 2020 , 150, 1932-1941	2.8	6
90	Surface Modification Features of Tool Steels by Laser Radiation. <i>Journal of Friction and Wear</i> , 2020 , 41, 549-553	0.9	1
89	Valence state of B and Ta cations in the AB _{1/2} Ta _{1/2} O ₃ ceramics (A = Ca, Sr, Ba, Pb; B = Fe, Sc) from X-ray photoelectron and Mössbauer spectroscopy data. <i>Journal of Electron Spectroscopy and Related Phenomena</i> , 2020 , 239, 146918	1.7	7
88	Quantum Confinement Effect in a Nanoscale Mo/Si Multilayer Structure. <i>Journal of Physical Chemistry C</i> , 2020 , 124, 17795-17805	3.8	7
87	Formation of Surface Structures under Friction in Synthetic Oils. <i>Journal of Friction and Wear</i> , 2020 , 41, 417-420	0.9	5
86	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

85	Controlled atmosphere dependent tribological properties of thermally annealed ultrananocrystalline diamond films. <i>Diamond and Related Materials</i> , 2019 , 97, 107437	3.5	8
84	X-ray photoelectron spectroscopy and low temperature Mössbauer study of Ce ³⁺ substituted MnFe ₂ O ₄ . <i>Journal of Materials Science: Materials in Electronics</i> , 2019 , 30, 10162-10171	2.1	16
83	Liquid-phase sintered bismuth ferrite multiferroics and their giant dielectric constant. <i>Ceramics International</i> , 2019 , 45, 14873-14879	5.1	15
82	Structure, non-stoichiometry, valence of ions, dielectric and magnetic properties of single-phase Bi _{0.9} La _{0.1} FeO ₃ multiferroics. <i>Journal of Magnetism and Magnetic Materials</i> , 2019 , 483, 100-113	2.8	19
81	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
80	Tribofilm stability of ionic liquid functionalized graphene-oxide in metallic contact interfaces. <i>Journal of Molecular Liquids</i> , 2019 , 296, 111813	6	6
79	Valence state of cations in manganites Pr _{1-x} Ca _x MnO ₃ (0.3 ≤ x ≤ 0.5) from X-ray diffraction and X-ray photoelectron spectroscopy. <i>Journal of Alloys and Compounds</i> , 2018 , 740, 132-142	5.7	9
78	Phase transitions, dielectric, magnetic properties and valence of ions in AFe ₂ /3W ₁ /3O ₃ (A = Ba, Sr) multiferroic ceramics. <i>Journal of Alloys and Compounds</i> , 2018 , 740, 1037-1045	5.7	7
77	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
76	X-ray photoelectron spectroscopy study of an exchange bias system on the basis of Co ₇₀ Fe ₃₀ /Mn ₈₃ Ir ₁₇ interface. <i>Journal of Applied Physics</i> , 2018 , 124, 155301	2.5	1
75	Valence state and X-ray photoelectron 2p spectra of chromium ions in the La _{1-x} Sr _x CrO ₃ (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	
74	Solvothermal synthesis of Sm-doped FeO nanoparticles. <i>Materials Science and Engineering C</i> , 2017 , 80, 110-116	8.3	14
73	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
72	Electronic structure of PbSc _{1/2} Nb _{1/2} O ₃ single-crystal ferroelectric-relaxor in the paraelectric and ferroelectric state. <i>Surface Science</i> , 2017 , 666, 1-8	1.8	2
71	Phase transitions, dielectric properties and valence of magnetic ions in PbFe _{0.5-x} Cr _x Nb _{0.5} O ₃ multiferroic ceramics. <i>Journal of Materials Science</i> , 2017 , 52, 10140-10155	4.3	14
70	Electronic structure of single-crystal solid solutions Pb _{1-x} Ba _x TiO ₃ (0 ≤ x ≤ 1) 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
69	Crystal Structure, Phase and Elemental Composition and Chemical Bonding in Bi _{1-x} A _x FeO ₃ (A = Sr, Ca; 0 ≤ x ≤ 1) from X-ray Diffraction, Mössbauer, and X-ray Photoelectron Spectra. <i>Springer Proceedings in Physics</i> , 2017 , 145-153	0.2	
68	Effects of doping of lead titanate with alkaline-earth elements. <i>Physics of the Solid State</i> , 2016 , 58, 115-126	1.6	4

67	Determining the valence state of manganese ions in complex oxides $\text{La}_{1-x}\text{Ca}_x\text{MnO}_3$ ($x = 0.5, 0.7, 0.85, \text{ and } 0.9$) 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	0
66	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	0
65	$\text{Bi}_{1-x}\text{Ca}_x\text{FeO}_3$ - ($0 \leq x \leq 1$) ceramics: Crystal structure, phase and elemental composition, and chemical bonding from X-ray diffraction, Raman scattering, Mössbauer, and X-ray photoelectron spectra. <i>Journal of Alloys and Compounds</i> , 2016 , 664, 392-405	5.7	26
64	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
63	X-ray photoelectron and Mössbauer spectroscopy studies of the valence state of transition metal ions in $\text{Co}_{1-x}\text{Fe}_x\text{Cr}_2\text{O}_4$ ($x = 0.1, 0.2, 0.5$) ceramics. <i>Physics of the Solid State</i> , 2016 , 58, 108-114	0.8	
62	Valence state of manganese and iron ions in $\text{La}_{1-x}\text{A}_x\text{MnO}_3$ ($A = \text{Ca}, \text{Sr}$) and $\text{Bi}_{1-x}\text{Sr}_x\text{FeO}_3$ 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
61	Load dependent friction coefficient of crystalline graphite and anomalous behavior of wear dimension. <i>Tribology International</i> , 2015 , 88, 280-289	4.9	11
60	Superlubrication properties of ultra-nanocrystalline diamond film sliding against a zirconia ball. <i>RSC Advances</i> , 2015 , 5, 100663-100673	3.7	21
59	Friction anisotropy in boronated graphite. <i>Applied Surface Science</i> , 2015 , 324, 443-454	6.7	6
58	Valence state of transition metal ions in $\text{Co}_{1-x}\text{Fe}_x\text{Cr}_2\text{O}_4$ ($x = 0.1, 0.2, 0.5$) ceramics from X-ray photoelectron and Mössbauer spectroscopy data. <i>Journal of Alloys and Compounds</i> , 2015 , 636, 241-248	5.7	15
57	Fine structure of the X-ray photoelectron Ni 2 p spectrum in $\text{Ni}_{1-x}\text{Co}_x\text{Cr}_2\text{O}_4$ compounds. <i>Bulletin of the Russian Academy of Sciences: Physics</i> , 2015 , 79, 1371-1375	0.4	
56	Effect of sintering temperature on the chemical state of ions in the $\text{Ba}_{1-x}\text{Sr}_x\text{TiO}_3$ ($x = 0.2$) 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
55	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
54	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
53	Chemical bonding and valence state of 3d-metal ions in $\text{Ni}_{1-x}\text{Co}_x\text{Cr}_2\text{O}_4$ 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
52	Mechanisms of structural thermal adaptability of silicate coatings. <i>Journal of Friction and Wear</i> , 2014 , 35, 141-148	0.9	2
51	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
50	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

49	Valence state of manganese ions in the $\text{La}_{1-x}\text{Bi}_x\text{MnO}_3$ ceramics. <i>Physics of the Solid State</i> , 2013 , 55, 743-747	0.8	5
48	Chemical bonding in the $\text{Bi}_{1-x}\text{Sr}_x\text{FeO}_3$ system by X-ray photoelectron and Mössbauer spectroscopy. <i>Journal of Electron Spectroscopy and Related Phenomena</i> , 2013 , 189, 106-115	1.7	11
47	Single-crystal rare earths manganites $\text{La}_{1-x}\text{BixAyMnO}_3$ (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
46	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
45	Humidity-dependent friction mechanism in an ultrananocrystalline diamond film. <i>Journal Physics D: Applied Physics</i> , 2013 , 46, 275501	3	47
44	X-ray photoelectron study and first principle calculations of the electronic structure of $\text{PbFe}_{1/2}\text{Nb}_{1/2}\text{O}_3$ single crystal in the ferroelectric and paraelectric phases. <i>Journal of Alloys and Compounds</i> , 2013 , 579, 401-405	5.7	4
43	Temperature dependence of the concentration of surface phases in a BaTiO_3 single crystal according to X-ray photoelectron spectroscopy data. <i>Bulletin of the Russian Academy of Sciences: Physics</i> , 2012 , 76, 120-124	0.4	7
42	Electronic structure of a $\text{PbFe}_{1/2}\text{Nb}_{1/2}\text{O}_3$ 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
41	Ferroelectric properties and microstructure of $\text{PbFe}_{1/2}\text{Nb}_{1/2}\text{O}_3$ ceramics. <i>Bulletin of the Russian Academy of Sciences: Physics</i> , 2012 , 76, 782-785	0.4	3
40	Valence state of the manganese ions in mixed-valence $\text{La}_{1-x}\text{Bi}_x\text{Mn}_{1-x}\text{O}_3$ 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
39	Electronic structure of single-crystal RMn_2O_5 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
38	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
37	Relaxation dynamics, phase pattern in the vicinity of the Curie temperature, Fe valent state and the Mössbauer effect in PFN ceramics. <i>Ceramics International</i> , 2012 , 38, 6157-6161	5.1	6
36	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
35	Valence and magnetic state of transition-metal and rare-earth ions in single-crystal multiferroics RMn_2O_5 (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
34	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, 254-260	0.6	7
33	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
32	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

31	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
30	The relaxation dynamics, iron valence state, and Mössbauer effect in PFN ceramics. <i>Bulletin of the Russian Academy of Sciences: Physics</i> , 2011 , 75, 731-733	0.4	2
29	X-ray photoelectron study of the valence state of iron in iron-containing single-crystal (BiFeO ₃ , PbFe _{1/2} Nb _{1/2} O ₃), and ceramic (BaFe _{1/2} Nb _{1/2} O ₃) multiferroics. <i>Journal of Electron Spectroscopy and Related Phenomena</i> , 2011 , 184, 16-23	1.7	72
28	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
27	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
26	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, 694-696	0.4	4
25	Effect of polarization on the intensity of anomalous electron emission in the (1-x)PbMg _{1/3} Nb _{2/3} O ₃ + xPbTiO ₃ system. <i>Physics of the Solid State</i> , 2009 , 51, 1385-1389	0.8	
24	Bias Field Effect on Dielectric and Pyroelectric Properties of (1-x)Pb(Fe _{1/2} Nb _{1/2})O ₃ -PbTiO ₃ Ceramics. <i>Ferroelectrics</i> , 2009 , 389, 107-113	0.6	18
23	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	
22	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
21	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	
20	Modelling of a Potential Relief on a Surface of Charged Polar Dielectrics. <i>Ferroelectrics</i> , 2007 , 353, 212-226	0.4	3
19	Peculiarities of segregation phenomena at the surface of Pd x V1 Bx alloys in an oxygen medium. <i>Journal of Surface Investigation</i> , 2007 , 1, 443-449	0.5	3
18	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
17	Electron emission from charged surfaces of ferroelectrics-electrets. <i>Journal of Electron Spectroscopy and Related Phenomena</i> , 2005 , 142, 67-74	1.7	5
16	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	
15	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	
14	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

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| 13 | A new high-brightness stepped-crystal diffractor for X-ray microanalysis. <i>Technical Physics Letters</i> , 2001 , 27, 11-13 | 0.7 | 5 |
| 12 | 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 | |
| 11 | 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 | |
| 10 | Anomalous electron emission from lithium niobate and lithium tantalate single crystals. <i>Physics of the Solid State</i> , 1997 , 39, 594-597 | 0.8 | |
| 9 | 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 |
| 8 | Spectra of low-energy electrons excited by soft x rays. <i>Technical Physics</i> , 1997 , 42, 318-321 | 0.5 | |
| 7 | Specific features and properties of lead-titanate-based anisotropic ceramics. <i>Ferroelectrics</i> , 1995 , 167, 223-228 | 0.6 | 1 |
| 6 | 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 |
| 5 | Electret state and surface composition of the PbMg ₁₃ /Nb ₂₃ /O ₃ single crystal. <i>Journal Physics D: Applied Physics</i> , 1993 , 26, 967-971 | 3 | 5 |
| 4 | 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 |
| 3 | Focusing properties of the electric field between charged conical surfaces. <i>Soviet Physics Journal (English Translation of Izvestiia Vysshikh Uchebnykh Zavedenii, Fizika)</i> , 1981 , 24, 927-931 | | |
| 2 | Satellites in the x-ray M series. <i>Soviet Physics Journal (English Translation of Izvestiia Vysshikh Uchebnykh Zavedenii, Fizika)</i> , 1970 , 13, 1394-1395 | | 1 |
| 1 | Structure of the short-wavelength L-series satellites. <i>Soviet Physics Journal (English Translation of Izvestiia Vysshikh Uchebnykh Zavedenii, Fizika)</i> , 1969 , 12, 540-542 | | |