

Alexey Menushenkov

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Features of the Phase Preferences, Long- and Short-Range Order in $\text{Ln}_2(\text{WO}_4)_3$ (Ln = Gd, Dy, Ho, Yb) with Their Relation to Hydration Behavior. <i>Crystals</i> , 2022, 12, 892.	1.0	0
2	Local electronic structure rearrangements and strong anharmonicity in YH_3 under pressures up to 180 GPa. <i>Nature Communications</i> , 2021, 12, 1765.	5.8	12
3	High spatial coherence and short pulse duration revealed by the Hanbury Brown and Twiss interferometry at the European XFEL. <i>Structural Dynamics</i> , 2021, 8, 044305.	0.9	9
4	Magnetization of Crystalline and Amorphous Phases of $\text{R}_2\text{Ti}_2\text{O}_7$ and $\text{R}_2\text{Zr}_2\text{O}_7$ (R = Gd, Dy, Tb). <i>Journal of Superconductivity and Novel Magnetism</i> , 2020, 33, 2395-2404.	0.8	5
5	Laser-induced ultrafast insulator-metal transition in BaBiO_3 . <i>Physical Review Research</i> , 2020, 2, 033001.	1.3	3
6	Local Disorder in $\text{Ln}_2\text{Ti}_2\text{O}_7$ (Ln = Gd, Tb, Dy) Pyrochlores. <i>JETP Letters</i> , 2019, 109, 529-535.	0.4	6
7	Electronic, local atomic structure of lutetium tetraphenylporphyrin: XPS and XAFS spectroscopy studies. <i>Journal of Physics: Conference Series</i> , 2019, 1238, 012002.	0.3	2
8	Effect of Optical Excitation on the Band Structure and X-Ray Absorption Spectra of BaBiO_3 -Based High-Temperature Superconductors: Ab Initio Calculation. <i>JETP Letters</i> , 2019, 110, 31-36.	0.4	2
9	Coherence properties of the high-energy fourth-generation X-ray synchrotron sources. <i>Journal of Synchrotron Radiation</i> , 2019, 26, 1851-1862.	1.0	24
10	Formation and evolution of crystal and local structures in nanostructured $\text{Ln}_2\text{Ti}_2\text{O}_7$ (Ln = Gd, Dy). <i>Journal of Alloys and Compounds</i> , 2018, 746, 377-390.	2.8	28
11	Local Noncentrosymmetric Structure of $\text{Bi}_2\text{Sr}_2\text{CaCu}_2\text{O}_{8+y}$ by X-ray Magnetic Circular Dichroism at Cu K-Edge XANES. <i>Journal of Superconductivity and Novel Magnetism</i> , 2018, 31, 663-670.	0.8	8
12	Effect of Nitrogenation and Hydrogenation on the Magnetic Properties and Structure of the $\text{Sm}_2\text{Fe}_{17}$ Alloy: Analysis of XMCD Data. <i>JETP Letters</i> , 2018, 107, 228-232.	0.4	2
13	Ptychographic X-ray Imaging of Colloidal Crystals. <i>Small</i> , 2018, 14, 1702575.	5.2	11
14	Neutron Spectroscopy of the Atomic Dynamics of $\text{La}_2\text{Zr}_2\text{O}_7$ at Fluorite Pyrochlore Structural Transformations. <i>JETP Letters</i> , 2018, 108, 532-536.	0.4	3
15	Correlation of local structure peculiarities and critical current density of 2G MOCVD YBCO tapes with BaZrO_3 nano-inclusions. <i>Superconductor Science and Technology</i> , 2017, 30, 045003.	1.8	8
16	XMCD study of the local magnetic and structural properties of microcrystalline NdFeB-based alloys. <i>JETP Letters</i> , 2017, 105, 38-42.	0.4	3
17	Micromechanical device based on amorphous-crystalline TiNiCu alloy. <i>Materials Today: Proceedings</i> , 2017, 4, 4870-4874.	0.9	6
18	Structural studies of the bond-orientational order and hexatic smectic transition in liquid crystals of various compositions. <i>Soft Matter</i> , 2017, 13, 3240-3252.	1.2	23

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19	S^3 : A unique quasi-one-dimensional conductor with three charge density wave transitions. Physical Review B, 2017, 95, .	1.1	46
20	Regularities of formation of complex oxides with the fluorite structure in the $ZrO_2\text{-}Y_2O_3$ system. Russian Journal of Inorganic Chemistry, 2017, 62, 1147-1154.	0.3	9
21	Analysis of the shape of x-ray diffraction peaks originating from the hexatic phase of liquid crystal films. Molecular Crystals and Liquid Crystals, 2017, 647, 169-178.	0.4	5
22	Temperature dependence of the critical current of $YBa_2Cu_3O_{7-x}$ films. JETP Letters, 2017, 106, 324-329.	0.4	4
23	Electronic structure and thermal stability of rare earth metalloporphyrins based on ytterbium. Journal of Surface Investigation, 2017, 11, 517-522.	0.1	4
24	Driving the Europium Valence State in $EuCo_2As_2$ by External and Internal Impact. Journal of Superconductivity and Novel Magnetism, 2017, 30, 75-78.	0.8	7
25	Effect of defects in the rare-earth sublattice of the Kondo insulator YbB_{12} on its spectral characteristics and magnetic susceptibility. Journal of Experimental and Theoretical Physics, 2017, 124, 957-967.	0.2	1
26	XMCD and TEM studies of as-cast and rapidly quenched $Fe_{50}Nd_{50}$ alloys. Journal of Physics: Conference Series, 2017, 941, 012072.	0.3	0
27	$Fe\text{-}As$ Bond Fluctuations in a Double-Well Potential in $LaFeAsO$. Journal of Superconductivity and Novel Magnetism, 2016, 29, 3035-3039.	0.8	10
28	Specific features of the crystal and local structures of compounds formed in the $Dy_2O_3\text{-}HfO_2$ system. Russian Journal of Inorganic Chemistry, 2016, 61, 1135-1143.	0.3	3
29	Effect of the synthesis conditions on the crystal, local, and electronic structure of $Ce_{1-x}Ce_{3+x}AlO_{3+x/2}$. Russian Journal of Inorganic Chemistry, 2016, 61, 225-231.	0.3	8
30	Direct reconstruction of the two-dimensional pair distribution function in partially ordered systems with angular correlations. Physical Review E, 2016, 94, 030701.	0.8	10
31	Europium mixed-valence, long-range magnetic order, and dynamic magnetic response in $EuCu_2$. Physical Review B, 2016, 94, .		
32	Local peculiarities of the nanocrystalline structure of ternary oxides $Ln_2Hf_2O_7$ ($Ln = Gd, Tb, Dy$). Journal of Structural Chemistry, 2016, 57, 1450-1458.	0.3	5
33	The effect of synthesis conditions on the structure of compounds formed in the $Dy_2O_3\text{-}TiO_2$ system. Russian Journal of Inorganic Chemistry, 2016, 61, 403-411.	0.3	11
34	Magnetization and Critical Current of Calcium-doped $YBa_2Cu_3O_{7-x}$ Composite Films. Journal of Superconductivity and Novel Magnetism, 2016, 29, 645-649.	0.8	1
35	A Transition from Localized to Strongly Correlated Electron Behavior and Mixed Valence Driven by Physical or Chemical Pressure in ACo_2As_2 ($A = Eu$ and Ca). Journal of the American Chemical Society, 2016, 138, 2724-2731.	6.6	55
36	Fermi-Bose Mixture in $Ba(K)BiO_3$ Superconducting Oxide. Journal of Superconductivity and Novel Magnetism, 2016, 29, 701-705.	0.8	17

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37	Synthesis, crystal structure, and magnetism of $A_2Co_{12}As_7$ ($A=Ca, Y, Ce\text{--}Yb$). Journal of Solid State Chemistry, 2016, 236, 147-158.	1.4	6
38	The formation of the two-way shape memory effect in rapidly quenched TiNiCu alloy under laser radiation. Smart Materials and Structures, 2015, 24, 115031.	1.8	8
39	Lanthanide effect on the formation and evolution of nanocrystalline structures in $Ln_2Hf_2O_7$ compounds ($Ln = Sm\text{--}Dy$). Russian Journal of Inorganic Chemistry, 2015, 60, 16-22.	0.3	26
40	Studying processes of crystallization and cation ordering in $Eu_2Hf_2O_7$. Russian Journal of Inorganic Chemistry, 2015, 60, 602-609.	0.3	8
41	Spatially resolved x-ray studies of liquid crystals with strongly developed bond-orientational order. Physical Review E, 2015, 91, 042506.	0.8	14
42	Effect of Laser Treatment on Shape Memory Properties of TiNiCu Alloy. Physics Procedia, 2015, 73, 108-113.	1.2	4
43	Local Electronic and Crystal Structure of Magnetic RCo_2As_2 ($R = La, Ce, Pr, Eu$). Journal of Superconductivity and Novel Magnetism, 2015, 28, 995-997.	0.8	5
44	Local atomic and crystal structure rearrangement during the martensitic transformation in $Ti_50Ni_{25}Cu_{25}$ shape memory alloy. Journal of Alloys and Compounds, 2014, 585, 428-433.	2.8	7
45	Low Temperature Anharmonicity and Superconductivity in Cuprates. Journal of Superconductivity and Novel Magnetism, 2014, 27, 925-928.	0.8	11
46	Short- and long-range order balance in nanocrystalline $Gd_2Zr_2O_7$ powders with a fluorite-pyrochlore structure. Russian Journal of Inorganic Chemistry, 2014, 59, 279-285.	0.3	36
47	Synthesis, Structures, and Magnetic Properties of Rare-Earth Cobalt Arsenides, RCo_2As_2 ($R = La, Ce, Pr, Nd$). Chemistry of Materials, 2014, 26, 3825-3837.	3.2	34
48	Role of the perovskite-like lattice in the high-temperature superconductor mechanism: EXAFS data analysis. Journal of Surface Investigation, 2013, 7, 407-421.	0.1	8
49	Characteristic features of the nanocrystalline structure formation in $Ln_2Hf_2O_7$ ($Ln = Gd, Dy$) compounds. Russian Journal of Inorganic Chemistry, 2013, 58, 1400-1407.	0.3	19
50	Resonant inelastic X-ray scattering (RIXS) on magnetic $EuCo_2P_2$ -based systems. JETP Letters, 2012, 96, 44-48.	0.4	7
51	Peculiarities of TiNi-based shape memory alloys local crystalline structure. Journal of Physics: Conference Series, 2011, 291, 012025.	0.3	6
52	“Chemical Metamagnetism” From Antiferromagnetic $PrCo_2P_2$ to Ferromagnetic $Pr_{0.8}Eu_{0.2}Co_2P_2$ via Chemical Compression. Chemistry of Materials, 2011, 23, 3021-3024.	3.2	41
53	A study of the formation of $Ln_2 + x Me_2 \hat{a}^x O_7 \hat{a}^{x/2}$ ($Ln = Gd, Dy; Me = Zr, Hf$) nanocrystals. Glass Physics and Chemistry, 2011, 37, 512-520.	0.2	13
54	Formation of nanocrystalline structures in the $Ln_2O_3\text{--}MO_2$ systems ($Ln = Gd, Dy; M = Zr, Hf$). Russian Journal of Inorganic Chemistry, 2011, 56, 1538-1544.	0.3	24

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55	Modification of superconducting YBCO(123) tape at current transport at $T = 77$ K. Inorganic Materials: Applied Research, 2010, 1, 365-369.	0.1	1
56	Correlation of the local and the macroscopic properties of high-temperature superconductors. Zeitschrift für Kristallographie, 2010, 225, .	1.1	8
57	Effect of shock waves on the current-carrying properties of HTSC YBCO(123) tape. Doklady Physics, 2009, 54, 463-465.	0.2	13
58	Investigation of epitaxial $\text{Nd}_{1.85}\text{Ce}_{0.15}\text{CuO}_4$ film surface by low energy electron diffractometry. Journal of Surface Investigation, 2008, 2, 928-930.	0.1	0
59	Local structure of nanopowders of refractory nitrides used to increase the critical current of high-temperature superconductors. Bulletin of the Russian Academy of Sciences: Physics, 2008, 72, 1062-1064.	0.1	2
60	Local dynamic deformation of the superconducting CuO_2 plane in the $\text{Nd}_{2-x}\text{Ce}_x\text{CuO}_4$ compound. Bulletin of the Russian Academy of Sciences: Physics, 2008, 72, 1132-1134.	0.1	1
61	EXAFS analysis of Zr-based quasicrystals. Bulletin of the Russian Academy of Sciences: Physics, 2008, 72, 1439-1441.	0.1	0
62	EXAFS spectroscopy of quasicrystals. Crystallography Reports, 2007, 52, 1006-1013.	0.1	5
63	Local structure of binary alloys $\text{Zr}_{70}\text{Pd}_{30}$. Crystallography Reports, 2007, 52, 1030-1035.	0.1	1
64	Spin dynamics of the intermediate-valence compound EuCu_2Si_2 . Journal of Experimental and Theoretical Physics, 2007, 105, 14-17.	0.2	12
65	Low temperature features of the local structure of $\text{Sm}_{1-x}\text{Y}_x\text{S}$. Journal of Experimental and Theoretical Physics, 2007, 105, 99-104.	0.2	2
66	EXAFS spectroscopy of perovskite-type superconducting oxides. Bulletin of the Russian Academy of Sciences: Physics, 2007, 71, 699-702.	0.1	1
67	Relationship between the local electronic and local crystal structures of intermediate-valence $\text{Sm}_{1-x}\text{Y}_x\text{S}$. JETP Letters, 2006, 84, 119-123.	0.4	8
68	Magnetic spectral response and lattice properties in mixed-valence $\text{Sm}_{1-x}\text{Y}_x\text{S}$ solid solutions studied with x-ray diffraction, x-ray absorption spectroscopy, and inelastic neutron scattering. Physical Review B, 2006, 74, .	1.1	26
69	Crystal-quasicrystal local structural transition in Al-Cu-Fe. JETP Letters, 2005, 81, 479-483.	0.4	4
70	Correlation of the local and the macroscopic properties of high-temperature superconductors: EXAFS data analysis. Journal of Synchrotron Radiation, 2003, 10, 369-370.	1.0	5
71	Resonant Raman scattering in superconducting $\text{Ba}_{1-x}\text{K}_x\text{BiO}_3$. JETP Letters, 2003, 77, 521-525.	0.4	4
72	Superconductivity in the $\text{Ba}_{1-x}\text{La}_x\text{PbO}_3$ system. Physics of the Solid State, 2001, 43, 613-615.	0.2	5

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73	Superconductivity in $Ba_{1-x}K_xBiO_3$: Possible scenario of spatially separated Fermi-Bose mixture. Journal of Experimental and Theoretical Physics, 2001, 93, 615-624.	0.2	14
74	Extended x-ray absorption fine-structure indication of a double-well potential for oxygen vibration in $Ba_{1-x}K_xBiO_3$. Journal of Physics Condensed Matter, 2000, 12, 3767-3786.	0.7	46
75	Anharmonicity and superconductivity in $Ba_{0.6}K_{0.4}BiO_3$. JETP Letters, 1998, 67, 1034-1039.	0.4	19
76	Study of Two-Way Shape Memory Behavior of Amorphous-Crystalline TiNiCu Melt-Spun Ribbons. Materials Science Forum, 0, 738-739, 352-356.	0.3	26
77	The influence of $BaSnO_3$ and $BaZrO_3$ nanoinclusionson the critical current and local structure of HTScoated conductors. Superconductor Science and Technology, 0, , .	1.8	0