Alexey Menushenkov

List of Publications by Year
in descending order

77	857	516561 16	580701 25
papers	citations	h-index	g-index

77	77	77	998
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	A Transition from Localized to Strongly Correlated Electron Behavior and Mixed Valence Driven by Physical or Chemical Pressure in ACo₂As₂ (A = Eu and Ca). Journal of the American Chemical Society, 2016, 138, 2724-2731.	6.6	55
2	Extended x-ray absorption fine-structure indication of a double-well potential for oxygen vibration in Ba1 -xKxBiO3. Journal of Physics Condensed Matter, 2000, 12, 3767-3786.	0.7	46
3	<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>Nb</mml:mi><mml:msub><mml:mi mathvariant="normal">S</mml:mi><mml:mn>3</mml:mn></mml:msub></mml:mrow></mml:math>: A unique quasi-one-dimensional conductor with three charge density wave transitions. Physical Review	1.1	46
4	â€œChemical Metamagnetismâ€• From Antiferromagnetic PrCo₂P₂ to Ferromagnetic Pr_{0.8}Eu_{0.2}Co₂P₂ via Chemical Compression. Chemistry of Materials, 2011, 23, 3021-3024.	3.2	41
5	Short- and long-range order balance in nanocrystalline Gd2Zr2O7 powders with a fluorite-pyrochlore structure. Russian Journal of Inorganic Chemistry, 2014, 59, 279-285.	0.3	36
6	Synthesis, Structures, and Magnetic Properties of Rare-Earth Cobalt Arsenides, RCo₂As₂ (R = La, Ce, Pr, Nd). Chemistry of Materials, 2014, 26, 3825-3837.	3.2	34
7	Formation and evolution of crystal and local structures in nanostructured Ln2Ti2O7 (Lnâ€¯=â€¯Gdâ€“Dy). Journal of Alloys and Compounds, 2018, 746, 377-390.	2.8	28
8	Magnetic spectral response and lattice properties in mixed-valenceSm1â^'xYxSsolid solutions studied with x-ray diffraction, x-ray absorption spectroscopy, and inelastic neutron scattering. Physical Review B, 2006, 74, .	1.1	26
9	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
10	Lanthanide effect on the formation and evolution of nanocrystalline structures in Ln2Hf2O7 compounds (Ln = Sm-Dy). Russian Journal of Inorganic Chemistry, 2015, 60, 16-22.	0.3	26
11	Europium mixed-valence, long-range magnetic order, and dynamic magnetic response in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>EuCu</mml:mi><mml:mn>2</mml:mn></mml:msub></mml:mrow></mml:math> Physical Review B, 2016, 94, .	1.1	26
12	Formation of nanocrystalline structures in the Ln2O3-MO2 systems (Ln = Gd, Dy; M = Zr, Hf). Russian Journal of Inorganic Chemistry, 2011, 56, 1538-1544.	0.3	24
13	Coherence properties of the high-energy fourth-generation X-ray synchrotron sources. Journal of Synchrotron Radiation, 2019, 26, 1851-1862.	1.0	24
14	Structural studies of the bond-orientational order and hexaticâ€“smectic transition in liquid crystals of various compositions. Soft Matter, 2017, 13, 3240-3252.	1.2	23
15	Anharmonicity and superconductivity in Ba0.6K0.4BiO3. JETP Letters, 1998, 67, 1034-1039.	0.4	19
16	Characteristic features of the nanocrystalline structure formation in Ln2Hf2O7 (Ln = Gd, Dy) compounds. Russian Journal of Inorganic Chemistry, 2013, 58, 1400-1407.	0.3	19
17	Fermi-Bose Mixture in Ba(K)BiO3 Superconducting Oxide. Journal of Superconductivity and Novel Magnetism, 2016, 29, 701-705.	0.8	17
18	Superconductivity in Ba1â^'x KxBiO3: Possible scenario of spatially separated Fermi-Bose mixture. Journal of Experimental and Theoretical Physics, 2001, 93, 615-624.	0.2	14

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19	Spatially resolved x-ray studies of liquid crystals with strongly developed bond-orientational order. Physical Review E, 2015, 91, 042506.	0.8	14
20	Effect of shock waves on the current-carrying properties of HTSC YBCO(123) tape. Doklady Physics, 2009, 54, 463-465.	0.2	13
21	A study of the formation of Ln2 + x Me2 â^' x O7 â^' x/2 (Ln = Gd, Dy; Me = Zr, Hf) nanocrystals. Glass Physics and Chemistry, 2011, 37, 512-520.	0.2	13
22	Spin dynamics of the intermediate-valence compound EuCu2Si2. Journal of Experimental and Theoretical Physics, 2007, 105, 14-17.	0.2	12
23	Local electronic structure rearrangements and strong anharmonicity in YH3 under pressures up to 180â€‰GPa. Nature Communications, 2021, 12, 1765.	5.8	12
24	Low Temperature Anharmonicity and Superconductivity in Cuprates. Journal of Superconductivity and Novel Magnetism, 2014, 27, 925-928.	0.8	11
25	The effect of synthesis conditions on the structure of compounds formed in the Dy2O3â€“TiO2 system. Russian Journal of Inorganic Chemistry, 2016, 61, 403-411.	0.3	11
26	Ptychographic Xâ€Ray Imaging of Colloidal Crystals. Small, 2018, 14, 1702575.	5.2	11
27	Feâ€“As Bond Fluctuations in a Double-Well Potential in LaFeAsO. Journal of Superconductivity and Novel Magnetism, 2016, 29, 3035-3039.	0.8	10
28	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
29	Regularities of formation of complex oxides with the fluorite structure in the ZrO2â€“Y2O3 system. Russian Journal of Inorganic Chemistry, 2017, 62, 1147-1154.	0.3	9
30	High spatial coherence and short pulse duration revealed by the Hanbury Brown and Twiss interferometry at the European XFEL. Structural Dynamics, 2021, 8, 044305.	0.9	9
31	Relationship between the local electronic and local crystal structures of intermediate-valence Sm1â^'x Y x S. JETP Letters, 2006, 84, 119-123.	0.4	8
32	Correlation of the local and the macroscopic properties of high-temperature superconductors. Zeitschrift FÃ¼r Kristallographie, 2010, 225, .	1.1	8
33	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
34	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
35	Studying processes of crystallization and cation ordering in Eu2Hf2O7. Russian Journal of Inorganic Chemistry, 2015, 60, 602-609.	0.3	8
36	Effect of the synthesis conditions on the crystal, local, and electronic structure of Ce 1-x 3+ Ce x 4+ AlO3 + x/2. Russian Journal of Inorganic Chemistry, 2016, 61, 225-231.	0.3	8

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37	Correlation of local structure peculiarities and critical current density of 2G MOCVD YBCO tapes with BaZrO3nanoinclusions. Superconductor Science and Technology, 2017, 30, 045003.	1.8	8
38	Local Noncentrosymmetric Structure of Bi2Sr2CaCu2O8+y by X-ray Magnetic Circular Dichroism at Cu K-Edge XANES. Journal of Superconductivity and Novel Magnetism, 2018, 31, 663-670.	0.8	8
39	Resonant inelastic X-ray scattering (RIXS) on magnetic EuCo2P2-based systems. JETP Letters, 2012, 96, 44-48.	0.4	7
40	Local atomic and crystal structure rearrangement during the martensitic transformation in Ti50Ni25Cu25 shape memory alloy. Journal of Alloys and Compounds, 2014, 585, 428-433.	2.8	7
41	Driving the Europium Valence State in EuCo2As2 by External and Internal Impact. Journal of Superconductivity and Novel Magnetism, 2017, 30, 75-78.	0.8	7
42	Peculiarities of TiNi-based shape memory alloys local crystalline structure. Journal of Physics: Conference Series, 2011, 291, 012025.	0.3	6
43	Synthesis, crystal structure, and magnetism of A2Co12As7 (A=Ca, Y, Ceâ€“Yb). Journal of Solid State Chemistry, 2016, 236, 147-158.	1.4	6
44	Micromechanical device based on amorphous-crystalline TiNiCu alloy. Materials Today: Proceedings, 2017, 4, 4870-4874.	0.9	6
45	Local Disorder in Ln2Ti2O7 (Ln = Gd, Tb, Dy) Pyrochlores. JETP Letters, 2019, 109, 529-535.	0.4	6
46	Superconductivity in the Ba1â^'x LaxPbO3 system. Physics of the Solid State, 2001, 43, 613-615.	0.2	5
47	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
48	EXAFS spectroscopy of quasicrystals. Crystallography Reports, 2007, 52, 1006-1013.	0.1	5
49	Local Electronic and Crystal Structure of Magnetic RCo2As2 (R = La, Ce, Pr, Eu). Journal of Superconductivity and Novel Magnetism, 2015, 28, 995-997.	0.8	5
50	Local peculiarities of the nanocrystalline structure of ternary oxides Ln2Hf2O7 (Ln = Gd, Tb, Dy). Journal of Structural Chemistry, 2016, 57, 1450-1458.	0.3	5
51	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
52	Magnetization of Crystalline and Amorphous Phases of R2Ti2O7 and R2Zr2O7 (R = Gd, Dy, Tb). Journal of Superconductivity and Novel Magnetism, 2020, 33, 2395-2404.	0.8	5
53	Resonant Raman scattering in superconducting Ba1â^'x KxBiO3. JETP Letters, 2003, 77, 521-525.	0.4	4
54	Crystal-quasicrystal local structural transition in Al-Cu-Fe. JETP Letters, 2005, 81, 479-483.	0.4	4

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55	Effect of Laser Treatment on Shape Memory Properties of TiNiCu Alloy. Physics Procedia, 2015, 73, 108-113.	1.2	4
56	Temperature dependence of the critical current of YBa2Cu3O7â˜Î´ films. JETP Letters, 2017, 106, 324-329.	0.4	4
57	Electronic structure and thermal stability of rare earth metalloporphyrins based on ytterbium. Journal of Surface Investigation, 2017, 11, 517-522.	0.1	4
58	Specific features of the crystal and local structures of compounds formed in the Dy2O3â€“HfO2 system. Russian Journal of Inorganic Chemistry, 2016, 61, 1135-1143.	0.3	3
59	XMCD study of the local magnetic and structural properties of microcrystalline NdFeB-based alloys. JETP Letters, 2017, 105, 38-42.	0.4	3
60	Neutron Spectroscopy of the Atomic Dynamics of La2Zr2O7 at Fluoriteâ€“Pyrochlore Structural Transformations. JETP Letters, 2018, 108, 532-536.	0.4	3
61	Laser-induced ultrafast insulator-metal transition in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>Ba</mml:mi><mml:mi>Bi</mml:mi><mml:msub><mml:mi mathvariant="normal">O</mml:mi><mml:mn>3</mml:mn></mml:msub></mml:mrow></mml:math>. Physical Review Research, 2020, 2, .	1.3	3
62	Low temperature features of the local structure of Sm1 â˜ x Y x S. Journal of Experimental and Theoretical Physics, 2007, 105, 99-104.	0.2	2
63	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
64	Effect of Nitrogenation and Hydrogenation on the Magnetic Properties and Structure of the Sm2Fe17 Alloy: Analysis of XMCD Data. JETP Letters, 2018, 107, 228-232.	0.4	2
65	Electronic, local atomic structure of lutetium tetraphenylporfyrin: XPS and XAFS spectroscopy stadies. Journal of Physics: Conference Series, 2019, 1238, 012002.	0.3	2
66	Effect of Optical Excitation on the Band Structure and X-Ray Absorption Spectra of BaBiO3-Based High-Temperature Superconductors: Ab Initio Calculation. JETP Letters, 2019, 110, 31-36.	0.4	2
67	Local structure of binary alloys Zr70Pd30. Crystallography Reports, 2007, 52, 1030-1035.	0.1	1
68	EXAFS spectroscopy of perovskite-type superconducting oxides. Bulletin of the Russian Academy of Sciences: Physics, 2007, 71, 699-702.	0.1	1
69	Local dynamic deformation of the superconducting CuO2 plane in the Nd2 â˜ x Ce x CuO4 + Î´ compound. Bulletin of the Russian Academy of Sciences: Physics, 2008, 72, 1132-1134.	0.1	1
70	Modification of superconducting YBCO(123) tape at current transport at T = 77 K. Inorganic Materials: Applied Research, 2010, 1, 365-369.	0.1	1
71	Magnetization and Critical Current of Calcium-doped YBa2Cu3O7â˜x Composite Films. Journal of Superconductivity and Novel Magnetism, 2016, 29, 645-649.	0.8	1
72	Effect of defects in the rare-earth sublattice of the Kondo insulator YbB12 on its spectral characteristics and magnetic susceptibility. Journal of Experimental and Theoretical Physics, 2017, 124, 957-967.	0.2	1

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73	Investigation of epitaxial Nd1.85Ce0.15CuO4 â˜ y film surface by low energy electron diffractometry. Journal of Surface Investigation, 2008, 2, 928-930.	0.1	0
74	EXAFS analysis of Zr-based quasicrystals. Bulletin of the Russian Academy of Sciences: Physics, 2008, 72, 1439-1441.	0.1	0
75	XMCD and TEM studies of as-cast and rapidly quenched Fe50Nd50alloys. Journal of Physics: Conference Series, 2017, 941, 012072.	0.3	0
76	The influence of BaSnO3 and BaZrO3 nanoinclusionson the critical current and local structure of HTScoated conductors. Superconductor Science and Technology, 0, , .	1.8	0
77	Features of the Phase Preferences, Long- and Short-Range Order in Ln2(WO4)3 (Ln = Gd, Dy, Ho, Yb) with Their Relation to Hydration Behavior. Crystals, 2022, 12, 892.	1.0	0