Lusegen A Bugaev

List of Publications by Year
in descending order

43 papers	830 citations	516710 16 h-index	501196 28 g-index
43 all docs	43 docs citations	43 times ranked	1273 citing authors

#	Article	IF	Citations
1	In situ formation of hydrides and carbides in palladium catalyst: When XANES is better than EXAFS and XRD. Catalysis Today, 2017, 283, 119-126.	4.4	103
2	Temperature- and Pressure-Dependent Hydrogen Concentration in Supported PdH_x Nanoparticles by Pd K-Edge X-ray Absorption Spectroscopy. Journal of Physical Chemistry C, 2014, 118, 10416-10423.	3.1	83
3	Coreâ€“Shell Structure of Palladium Hydride Nanoparticles Revealed by Combined X-ray Absorption Spectroscopy and X-ray Diffraction. Journal of Physical Chemistry C, 2017, 121, 18202-18213.	3.1	67
4	EXAFS study of size dependence of atomic structure in palladium nanoparticles. Journal of Physics and Chemistry of Solids, 2014, 75, 470-476.	4.0	56
5	Optoelectronics and defect levels in hydroxyapatite by first-principles. Journal of Chemical Physics, 2018, 148, 154706.	3.0	54
6	X-ray absorption near edge structure (XANES) for KCl. Solid State Communications, 1982, 44, 1401-1407.	1.9	46
7	Bimetallic PtCu core-shell nanoparticles in PtCu/C electrocatalysts: Structural and electrochemical characterization. Applied Catalysis A: General, 2016, 525, 226-236.	4.3	44
8	Atomic Structure of Bimetallic Nanoparticles in PtAg/C Catalysts: Determination of Components Distribution in the Range from Disordered Alloys to â€œCoreâ€“Shellâ€•Structures. Journal of Physical Chemistry C, 2015, 119, 3217-3227.	3.1	31
9	Local Structure of Aluminum in Zeolite Mordenite as Affected by Temperature. Journal of Physical Chemistry B, 2005, 109, 10771-10778.	2.6	29
10	Formation of bimetallic gold-silver nanoparticles in glass by UV laser irradiation. Journal of Alloys and Compounds, 2018, 767, 1253-1263.	5.5	27
11	Atomic structure of nickel phthalocyanine probed by X-ray absorption spectroscopy and density functional simulations. Optics and Spectroscopy (English Translation of Optika I Spektroskopiya), 2013, 114, 347-352.	0.6	26
12	EXAFS study of changes in atomic structure of silver nanoparticles in soda-lime glass caused by annealing. Journal of Non-Crystalline Solids, 2013, 382, 24-31.	3.1	26
13	Evolution of the Atomic Structure of Ceria-Supported Platinum Nanocatalysts: Formation of Single Layer Platinum Oxide and Ptâ€“Oâ€“Ce and Ptâ€“Ce Linkages. Journal of Physical Chemistry C, 2016, 120, 28057-28066.	3.1	25
14	Formation of silver nanoparticles in silicate glass using excimer laser radiation: Structural characterization by HRTEM, XRD, EXAFS and optical absorption spectra. Journal of Alloys and Compounds, 2016, 681, 307-315.	5.5	22
15	Aluminum K-XANES spectra in minerals as a source of information on their local atomic structure. Journal of Physics Condensed Matter, 1998, 10, 5463-5473.	1.8	21
16	Effect of Thermal Treatment on the Atomic Structure and Electrochemical Characteristics of Bimetallic PtCu Coreâ€“Shell Nanoparticles in PtCu/C Electrocatalysts. Journal of Physical Chemistry C, 2018, 122, 17199-17210.	3.1	18
17	The problem of potential construction and phaseshift calculation in X-ray-absorption spectra theory of molecules and complexes containing low-Z atoms. Journal of Physics B: Atomic, Molecular and Optical Physics, 1991, 24, 1967-1975.	1.5	15
18	Formation and implantation of gold nanoparticles by ArF-excimer laser irradiation of gold-coated float glass. Journal of Alloys and Compounds, 2018, 736, 152-162.	5.5	14

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19	Synthesis and structural characterization of iron-cementite nanoparticles encapsulated in carbon matrix. Journal of Nanoparticle Research, 2020, 22, 1.	1.9	14
20	Determination of interatomic distances and coordination numbers by K-XANES in crystalline minerals with distorted local structure. Journal of Physics Condensed Matter, 2000, 12, 1119-1131.	1.8	11
21	Crystalline potential for photoelectron scattering phase-shift calculations and X-ray absorption spectra of Ti in crystals. Journal of Physics Condensed Matter, 1991, 3, 8967-8979.	1.8	10
22	Electronic Structure of Pt and Au Compounds Measured by X-ray Emission and X-ray Absorption Spectroscopies. Journal of Physical Chemistry C, 2012, 116, 25790-25796.	3.1	9
23	Pd hydride and carbide studied by means of Pd K-edge X-ray absorption near-edge structure analysis. Bulletin of the Russian Academy of Sciences: Physics, 2015, 79, 1180-1185.	0.6	9
24	Effect of thermal post-treatment on surface plasmon resonance characteristics of gold nanoparticles formed in glass by UV laser irradiation. Journal of Alloys and Compounds, 2019, 803, 354-363.	5.5	9
25	The effect of crystalline potential and electron multiple-scattering processes in EXAFS. Physica B: Condensed Matter, 1989, 158, 421-424.	2.7	8
26	Spherical wave formalism in the bond-angle determination problem by EXAFS. Physica B: Condensed Matter, 1989, 158, 378-382.	2.7	7
27	Title is missing!. Journal of Physics Condensed Matter, 1995, 7, L181-L186.	1.8	7
28	Effect of Aluminum on the Local Structure of Silicon in Zeolites as Studied by Si K Edge X-ray Absorption Near-Edge Fine Structure: Spectra Simulation with a Non-Muffin Tin Atomic Background. Journal of Physical Chemistry B, 2009, 113, 4614-4618.	2.6	7
29	Atomic Structure of Cu Centers in Mordenite Formed by Interaction of Copper Chloride with H-MOR Zeolite and Temperature Treatment. Journal of Physical Chemistry C, 2021, 125, 25867-25878.	3.1	7
30	Determination of the local atomic structure of material from X-ray absorption spectroscopy data without fourier analysis of experimental spectra. Optics and Spectroscopy (English Translation of) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50	0.6	6
31	Formation of nickel nanoparticles and magnetic matrix in nickel phthalocyanine by doping with potassium. Materials Chemistry and Physics, 2018, 214, 564-571.	4.0	5
32	The effect of 3d-electron excitation on EELFS and EXAFS above M2,3 edge of 3d-transition metals. Solid State Communications, 1994, 91, 457-460.	1.9	3
33	Synthesis and investigation of the structure of nanocomposites based on nickel nanoparticles dispersed in a phthalocyanine matrix. Physics of the Solid State, 2016, 58, 1004-1010.	0.6	3
34	Local Distortions of Ideal Perovskite Structure in KNbO3Revealed by EXAFS. Japanese Journal of Applied Physics, 1999, 38, 215.	1.5	2
35	Structure and Magnetism of Few-Layer Nanographene Clusters in Carbon Microspheres. Journal of Physical Chemistry C, 2022, 126, 493-504.	3.1	2
36	The temperature dependence for the third shell's Fourier-peak of Nb-EXAFS in KNbO3as additional source of information on the local atomic structure. Journal of Synchrotron Radiation, 2001, 8, 308-310.	2.4	1

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37	Determination of temperature-induced changes in the structure of the nearest environment of aluminum in mordenite zeolites from x-ray absorption near-edge structure spectra. Optics and Spectroscopy (English Translation of Optika I Spektroskopiya), 2006, 100, 563-571.	0.6	1
38	Determination of the factorized atomic part of the X-ray absorption cross section in the near-edge spectrum: Application to the analysis of structural changes in I^2 zeolite with an increase in the aluminum content. Optics and Spectroscopy (English Translation of Optika I Spektroskopiya), 2007, 102, 867-871.	0.6	1
39	Resolution of interatomic distances by fourier analysis of short energy-range X-ray absorption spectra. Optics and Spectroscopy (English Translation of Optika I Spektroskopiya), 2008, 105, 881-888.	0.6	1
40	Raman spectra of nickel-carbon nanocomposites. Proceedings of SPIE, 2010, , .	0.8	1
41	Parametrization of phase shifts in the muffin-tin approximation. Soviet Physics Journal (English) Tj ETQq1 1 0.784314 rgBT /Overlock	0.0	0
42	Structure of cobalt nanoparticles as studied by X-ray absorption spectroscopy. Bulletin of the Russian Academy of Sciences: Physics, 2011, 75, 1674-1675.	0.6	0
43	Study of the local atomic structure of silver ions in silicate glasses based on x-ray absorption spectroscopy and computer modeling by using density functional theory. AIP Conference Proceedings, 2019, , .	0.4	0