Andris Anspoks

List of Publications by Year
in descending order

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51 papers	642 citations	687220 13 h-index	642610 23 g-index
51 all docs	51 docs citations	51 times ranked	951 citing authors

#	Article	IF	Citations
1	Neural Network Approach for Characterizing Structural Transformations by X-Ray Absorption Fine Structure Spectroscopy. Physical Review Letters, 2018, 120, 225502.	2.9	85
2	Atomic structure relaxation in nanocrystalline NiO studied by EXAFS spectroscopy: Role of nickel vacancies. Physical Review B, 2012, 86, .	1.1	60
3	Interpretation of the Ni K-edge EXAFS in nanocrystalline nickel oxide using molecular dynamics simulations. Journal of Non-Crystalline Solids, 2011, 357, 2604-2610.	1.5	52
4	Temperature dependence of the local structure and lattice dynamics of wurtzite-type ZnO. Acta Materialia, 2014, 79, 194-202.	3.8	30
5	Probing NiO nanocrystals by EXAFS spectroscopy. Solid State Communications, 2010, 150, 2270-2274.	0.9	24
6	Local structure relaxation in nanosized tungstates. Solid State Communications, 2014, 183, 22-26.	0.9	23
7	Thermal disorder and correlation effects in anti-perovskite-type copper nitride. Acta Materialia, 2017, 129, 61-71.	3.8	21
8	Thermal holograms in doped ferroelectric SBN crystals. Ferroelectrics, 1988, 80, 277-280.	0.3	20
9	External pressure and composition effects on the atomic and electronic structure of SnWO4. Solar Energy Materials and Solar Cells, 2015, 143, 627-634.	3.0	19
10	Local structural investigation of hafnia-zirconia polymorphs in powders and thin films by X-ray absorption spectroscopy. Acta Materialia, 2019, 180, 158-169.	3.8	19
11	Analysis of extended x-ray absorption fine structure data from copper tungstate by the reverse Monte Carlo method. Physica Scripta, 2014, 89, 044006.	1.2	18
12	Treatment of disorder effects in X-ray absorption spectra beyond the conventional approach. Radiation Physics and Chemistry, 2020, 175, 108112.	1.4	16
13	Local structure of nanosized tungstates revealed by evolutionary algorithm. Physica Status Solidi (A) Applications and Materials Science, 2015, 212, 265-273.	0.8	15
14	The role of yttrium and titanium during the development of ODS ferritic steels obtained through the STARS route: TEM and XAS study. Journal of Nuclear Materials, 2018, 504, 8-22.	1.3	14
15	ODS ferritic steels obtained from gas atomized powders through the STARS processing route: Reactive synthesis as an alternative to mechanical alloying. Nuclear Materials and Energy, 2018, 17, 1-8.	0.6	14
16	The Use of X-ray Absorption Spectra for Validation of Classical Force-Field Models. Zeitschrift Fur Physikalische Chemie, 2016, 230, 537-549.	1.4	13
17	Investigation of precipitate in an austenitic ODS steel containing a carbon-rich process control agent. Nuclear Materials and Energy, 2018, 15, 237-243.	0.6	13
18	High-temperature X-ray absorption spectroscopy study of thermochromic copper molybdate. Acta Materialia, 2019, 179, 26-35.	3.8	13

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19	Local structure of copper nitride revealed by EXAFS spectroscopy and a reverse Monte Carlo/evolutionary algorithm approach. Physica Scripta, 2016, 91, 054003.	1.2	12
20	Advanced approach to the local structure reconstruction and theory validation on the example of the W L₃-edge extended x-ray absorption fine structure of tungsten. Modelling and Simulation in Materials Science and Engineering, 2018, 26, 025004.	0.8	12
21	High efficiency angular deflection of the laser beam: PLZT/intracavity array. Ferroelectrics, 1992, 131, 301-306.	0.3	11
22	X-ray absorption spectroscopy of Cu-doped WO3 films for use in electrochemical metallization cell memory. Journal of Non-Crystalline Solids, 2014, 401, 87-91.	1.5	10
23	Changes in structure and conduction type upon addition of Ir to ZnO thin films. Thin Solid Films, 2017, 636, 694-701.	0.8	10
24	Local structure and dynamics of wurtziteâ€type ZnO from simulationâ€based EXAFS analysis. Physica Status Solidi C: Current Topics in Solid State Physics, 2014, 11, 1472-1475.	0.8	9
25	Extended x-ray absorption fine structure spectroscopy and first-principles study of SnWO₄. Physica Scripta, 2014, 89, 044005.	1.2	9
26	Local structure relaxation in nanocrystalline Ni1â^'xO thin films. Thin Solid Films, 2014, 553, 58-62.	0.8	7
27	Local Structure of Cobalt Tungstate Revealed by EXAFS Spectroscopy and Reverse Monte Carlo/Evolutionary Algorithm Simulations. Zeitschrift Fur Physikalische Chemie, 2016, 230, 551-568.	1.4	7
28	Pressure-induced structural changes in Î±-MoO₃ probed by X-ray absorption spectroscopy. IOP Conference Series: Materials Science and Engineering, 0, 503, 012018.	0.3	7
29	The local atomic structure and thermoelectric properties of Ir-doped ZnO: hybrid DFT calculations and XAS experiments. Journal of Materials Chemistry C, 2021, 9, 4948-4960.	2.7	7
30	Local Structure of Multiferroic MnWO₄ and Mn_{0.7}Co_{0.3}WO₄ Revealed by the Evolutionary Algorithm. Ferroelectrics, 2015, 483, 68-74.	0.3	6
31	Effect of Pressure and Temperature on the Local Structure and Lattice Dynamics of Copper(II) Oxide. Physics Procedia, 2016, 85, 27-35.	1.2	6
32	Local structure of A-atom in ABO3 perovskites studies by RMC-EXAFS. Radiation Physics and Chemistry, 2020, 175, 108072.	1.4	6
33	Probing vacancies in NiO nanoparticles by EXAFS and molecular dynamics simulations. Journal of Physics: Conference Series, 2013, 430, 012027.	0.3	5
34	ODS steel raw material local structure analysis using X-ray absorption spectroscopy. IOP Conference Series: Materials Science and Engineering, 2015, 77, 012029.	0.3	5
35	Interpretation of the Cu K-edge EXAFS spectra of Cu3N using ab initio molecular dynamics. Radiation Physics and Chemistry, 2020, 175, 108100.	1.4	5
36	Controlling of visible and infrared radiation by use of holographic gratings in PLZT ceramics. Ferroelectrics, 1989, 90, 203-207.	0.3	4

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37	Local structure studies of SrTi¹⁶O₃and SrTi¹⁸O₃. Physica Scripta, 2014, 89, 044002.	1.2	4
38	Origin of Pressureâ€Induced Metallization in Cu₃N: An Xâ€ray Absorption Spectroscopy Study. Physica Status Solidi (B): Basic Research, 2018, 255, 1800073.	0.7	4
39	Recent progress in high pressure X-ray absorption spectroscopy studies at the ODE beamline. High Pressure Research, 2020, 40, 82-87.	0.4	4
40	Study of Copper Nitride Thin Film Structure. Latvian Journal of Physics and Technical Sciences, 2016, 53, 31-37.	0.4	4
41	Effect of cobalt doping on the local structure and dynamics of multiferroic MnWO₄and Mn_{0.7}Co_{0.3}WO₄. Journal of Physics: Conference Series, 2013, 430, 012109.	0.3	3
42	Local Structure Studies of Ti for SrTi¹⁶O₃and SrTi¹⁸O₃by Advanced X-ray Absorption Spectroscopy Data Analysis. Ferroelectrics, 2015, 485, 42-52.	0.3	3
43	Pressure-induced insulator-to-metal transition in Î±-SnWO4. Journal of Physics: Conference Series, 2016, 712, 012122.	0.3	3
44	Local dynamics and phase transition in quantum paraelectric SrTiO₃studied by TiK-edge x-ray absorption spectroscopy. Journal of Physics: Conference Series, 2016, 712, 012101.	0.3	3
45	The influence of Zn2+ ions on the local structure and thermochromic properties of Cu1-xZnxMoO4 solid solutions. Materials Today Communications, 2021, 28, 102607.	0.9	2
46	Revealing the local structure of CuMo<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si1.svg"><mml:msub><mml:mrow /><mml:mrow><mml:mn>1</mml:mn><mml:mo>â^'</mml:mo><mml:mi>x</mml:mi></mml:mrow></mml:msub></mml:math>W<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si2.svg"><mml:msub><mml:mrow /><mml:mi>x</mml:mi></mml:msub></mml:math>O<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si3.svg"><mml:msub><mml:mrow /><mml:mml:	2.7	2
47	High-pressure x-ray absorption spectroscopy study of tin tungstates. Physica Scripta, 2015, 90, 094003.	1.2	1
48	Origin of Pressure-Induced Metallization in Cu3 N: An X-ray Absorption Spectroscopy Study (Phys.) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50	0.7	1
49	Influence of Pressure and Temperature on X-Ray Induced Photoreduction of Nanocrystalline CuO. Latvian Journal of Physics and Technical Sciences, 2018, 55, 13-19.	0.4	1
50	Photoinduced light scattering in electrooptical PLZT ceramics. Ferroelectrics, 1993, 145, 259-269.	0.3	0
51	Kinetic Monte Carlo modeling of Y2O3 nano-cluster formation in radiation resistant matrices. Nuclear Instruments & Methods in Physics Research B, 2018, 434, 13-22.	0.6	0