Airat G Kiiamov

List of Publications by Year
in descending order

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69	584	687363 13	713466 21
papers	citations	h-index	g-index

69	69	69	856
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Revisiting the Mechanism of Oxidative Unzipping of Multiwall Carbon Nanotubes to Graphene Nanoribbons. ACS Nano, 2018, 12, 3985-3993.	14.6	88
2	Reconsideration of the micellization theory: Promotion or inhibition of gas hydrate formation for gas storage and flow assurance applications. Chemical Engineering Journal, 2022, 427, 131852.	12.7	32
3	Oxidatively modified carbon as efficient material for removing radionuclides from water. Carbon, 2017, 115, 394-401.	10.3	27
4	Magnetic properties of the covalent chain antiferromagnet<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi>RbFeSe</mml:mi><mml:mn>2</mml:mn></mml:msub></ Physical Review B, 2016, 94, .	3.2	26
5	Magnetic and spectral properties of the multisublattice oxides<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>SrY</mml:mi><mml:mn>2</mml:mn></mml mathvariant="normal">O</mml:mi><mml:mn>4</mml:mn></mml:msub><mml:mo>:</mml:mo><mml:msup><mml:mrow><mml:mi> xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>. Physical Review B, 2015, 92, .	3.2	25
6	Î³-Iron Phase Stabilized at Room Temperature by Thermally Processed Graphene Oxide. Journal of the American Chemical Society, 2018, 140, 9051-9055.	13.7	24
7	EPR study of ceria nanoparticles containing different concentration of Ce3+ ions. Materials Chemistry and Physics, 2018, 219, 251-257.	4.0	21
8	Ionic clathrate hydrates loaded into a cryogel â€“ halloysite clay composite for cold storage. Applied Clay Science, 2020, 191, 105618.	5.2	21
9	Observation of Persistent Currents in Finely Dispersed Pyrolytic Graphite. JETP Letters, 2018, 107, 37-41.	1.4	18
10	Magnetocaloric effect in single crystal GdTiO3. Cryogenics, 2019, 101, 58-62.	1.7	17
11	Epitaxial growth of Pd1âˆ'Fe films on MgO single-crystal substrate. Thin Solid Films, 2019, 669, 338-344.	1.8	17
12	Characterization of Pr-Doped LaF₃ Nanoparticles Synthesized by Different Variations of Coprecipitation Method. Journal of Nanomaterials, 2019, 2019, 1-17.	2.7	14
13	Luminescence Nanothermometry Based on Pr³⁺â€‰:â€‰LaF₃ Single Core and Pr³⁺â€‰:â€‰LaF₃/LaF₃ Core/Shell Nanoparticles. Advances in Materials Science and Engineering, 2019, 2019, 1-14.	1.8	13
14	Microwave-Assisted Hydrothermal Synthesis and Annealing of DyF₃Nanoparticles. Journal of Nanomaterials, 2016, 2016, 1-5.	2.7	12
15	CeO2/CeF3 composite nanoparticles: Fabrication by fluorination of CeO2 with tetrafluoromethane gas. Materials Chemistry and Physics, 2018, 207, 542-546.	4.0	12
16	Highly-sensitive lifetime optical thermometers based on Nd3+, Yb3+:YF3 phosphors. Journal of Luminescence, 2022, 249, 119037.	3.1	12
17	Angstrom-scale probing of paramagnetic centers location in nanodiamonds by ³He NMR at low temperatures. Physical Chemistry Chemical Physics, 2018, 20, 1476-1484.	2.8	11
18	Electron Transfer and Unusual Chemical Transformations of F4â€TCNQ in a Reaction with Mnâ€Phthalocyanine. European Journal of Inorganic Chemistry, 2018, 2018, 3344-3353.	2.0	10

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19	Epitaxial growth and superconducting properties of thin-film PdFe/VN and VN/PdFe bilayers on MgO(001) substrates. Beilstein Journal of Nanotechnology, 2020, 11, 807-813.	2.8	10
20	The Mechanistic Details for the Growth of Palladium Nanoparticles on Graphene Oxide Support. ChemistrySelect, 2017, 2, 10546-10554.	1.5	9
21	Understanding the Nucleation and Growth of Iron Oxide Nanoparticle Formation by a â€œHeating-Upâ€• Process: An NMR Relaxation Study. Journal of Physical Chemistry C, 2021, 125, 20980-20992.	3.1	9
22	Magnetic properties of (La 0.7 Sr 0.3 MnO 3) x (CaCu 3 Ti 4 O 12) 1â^'x nanostructured composites. Journal of Alloys and Compounds, 2017, 714, 213-224.	5.5	8
23	Flux crystal growth of Cu2GaBO5 and Cu2AlBO5. Journal of Crystal Growth, 2020, 545, 125723.	1.5	8
24	Magnetic properties of chain antiferromagnets RbFeSe2, TlFeSe2, and TlFeS2. Bulletin of the Russian Academy of Sciences: Physics, 2017, 81, 885-887.	0.6	7
25	Electrical properties of titanium nitride films synthesized by reactive magnetron sputtering. Journal of Physics: Conference Series, 2017, 927, 012036.	0.4	7
26	To the Intrinsic Magnetism of the Bi108Sn0.02Sb0.9Te2S Topological Insulator. JETP Letters, 2019, 109, 465-471.	1.4	7
27	Catalytic properties of graphene oxide/palladium composites as a function of the fabrication method. New Journal of Chemistry, 2019, 43, 19035-19043.	2.8	7
28	Analysis of Electronic and Structural Properties of Surfaces and Interfaces Based on LaAlO $$ _{3} $$ 3 and SrTiO $$ _{3}$$ 3. Journal of Low Temperature Physics, 2016, 185, 597-602.	1.4	6
29	Direct growth of oriented nanocrystals of gamma-iron on graphene oxide substrates. Detailed analysis of the factors affecting unexpected formation of the gamma-iron phase. New Journal of Chemistry, 2019, 43, 12923-12931.	2.8	6
30	Co-Ligand Induced Chiral Recognition of N-Thiophosphorylated Thioureas in Crystalline Ni(II) Complexes. Crystal Growth and Design, 2019, 19, 4044-4056.	3.0	6
31	Pristine graphite oxide retains its C-axis registry in methanol. The way to alternative purification method. Carbon, 2021, 173, 154-162.	10.3	6
32	Synthesis, Characterization, and Magnetoresistive Properties of the Epitaxial Pd0.96Fe0.04/VN/Pd0.92Fe0.08 Superconducting Spin-Valve Heterostructure. Nanomaterials, 2021, 11, 64.	4.1	6
33	Magnetic properties of (SrFe12O19) x (CaCu3Ti4O12)1â€“x composites. Journal of Experimental and Theoretical Physics, 2016, 123, 127-133.	0.9	5
34	Vibrational properties and magnetic specific heat of the covalent chain antiferromagnet RbFeSe2. Physical Review B, 2018, 98, .	3.2	5
35	Growth of invar nanoparticles on a graphene oxide support. CrystEngComm, 2019, 21, 4092-4097.	2.6	5
36	Iron-implanted epitaxial palladium thin films: Structure, ferromagnetism and signatures of spinodal decomposition. Materials Letters, 2021, 305, 130783.	2.6	4

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37	Mutual Orientation of Electric Intracrystalline and Magnetic Fields in Iron Borate Single Crystals. IEEE Magnetics Letters, 2022, 13, 1-4.	1.1	4
38	Ab initio studying of topological insulator Bi2Se3under the stress. Journal of Physics: Conference Series, 2012, 394, 012022.	0.4	3
39	Connection Between the Carotid Plaque Instability and Paramagnetic Properties of the Intrinsic Mn2+ Ions. BioNanoScience, 2016, 6, 558-560.	3.5	3
40	MÃ¶ssbauer spectroscopy evidence of intrinsic nonâ€stoichiometry in iron telluride single crystals. Annalen Der Physik, 2017, 529, 1600241.	2.4	3
41	Coherent X-ray diffraction imaging of nanoengineered polymeric capsules. JETP Letters, 2017, 106, 540-543.	1.4	3
42	Vibrational properties and lattice specific heat of KFeS2. AIP Conference Proceedings, 2018, , .	0.4	3
43	Femtosecond Optical and Magneto-Optical Spectroscopy Study of Magnetic and Electronic Inhomogeneities in a Pd0.94Fe0.06 Thin Film. JETP Letters, 2019, 110, 217-222.	1.4	3
44	Magnetic phase composition of ZnO film heavily implanted with Fe ions. Applied Surface Science, 2019, 489, 220-225.	6.1	3
45	Spin-Hamiltonian parameters and zero-field splitting of impurity Gd3+ ions in SrY2O4 crystal. Journal of Magnetism and Magnetic Materials, 2019, 469, 638-642.	2.3	3
46	Spectral-Kinetic Properties and Energy Transfer in Nanoparticles of Y0.5â€“xCe0.5TbxF3 Solid Solution. Journal of Applied Spectroscopy, 2020, 87, 481-487.	0.7	3
47	Competitive Hydrogen Bonding and Unprecedented Polymorphism in Selected Chiral Phosphorylated Thioureas. Crystal Growth and Design, 2021, 21, 5460-5471.	3.0	3
48	Metastable ionic cubic structure I clathrate hydrate formed with tetra-n-butylammonium bromide. Mendeleev Communications, 2021, 31, 17-19.	1.6	3
49	Magnetic dipolar correlations in sillenite-structure bismuth ferrite: magnetic and MÃ¶ssbauer effect studies. Journal of Physics and Chemistry of Solids, 2022, 164, 110632.	4.0	3
50	Density Functional Theory Approach to the Vibrational Properties and Magnetic Specific Heat of the Covalent Chain Antiferromagnet KFeS2. Molecules, 2022, 27, 2663.	3.8	3
51	Structure and Metastability of MF2 (MÂ=ÂCa,ÂSr,ÂBa) Fine Powders Mechanochemically Doped with Er3+ Ions. Applied Magnetic Resonance, 2015, 46, 515-522.	1.2	2
52	Clay Modifier Activation for Ceramic Brick by Ultrasonic Extrusion. Glass and Ceramics (English) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 14	0.6	2
53	Investigation of the Magnetic Properties of Ludwigites. Bulletin of the Russian Academy of Sciences: Physics, 2019, 83, 912-914.	0.6	2
54	Application of Nuclear Inelastic Scattering Spectroscopy to the Frequency Scale Calibration of Ab Initio Calculated Phonon Density of States of Quasi-One-Dimensional Ternary Iron Chalcogenide RbFeSe2. Applied Sciences (Switzerland), 2020, 10, 7212.	2.5	2

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55	3D structure reconstruction of nanoengineered polymeric capsules using Coherent X-Ray diffraction imaging. MethodsX, 2021, 8, 101230.	1.6	2
56	Ferromagnetic resonance study of the epitaxial VN/Pd0.96Fe0.04 thin film heterostructure on MgO substrate. Magnetic Resonance in Solids, 2019, 21, .	0.2	2
57	EPR spectra and magnetization of XY-type rare-earth ions in pyrochlores Y2Ti2O7: RE3+ (RE=Yb, Er). Magnetic Resonance in Solids, 2019, 21, .	0.2	2
58	On the ab initio Calculations within DFT + U Approach of Physical Properties of a Compound with Strong Electron-electron Correlations by the Case of KFeS2. JETP Letters, 2022, 115, 98.	1.4	2
59	DFT and MÃ¶ssbauer Spectroscopy Study of a FeTe0.5Se0.5 Single Crystal. JETP Letters, 2019, 109, 266-269.	1.4	1
60	Evidence of the Plaquette Structure of Fe 1+ x Te Iron Telluride: MÃ¶ssbauer Spectroscopy Study. Physica Status Solidi (B): Basic Research, 2019, 256, 1800698.	1.5	1
61	Chiral recognition of N-thiophosphorylated thioureas via nickel(ii) coordination assisted by 4-dimethylaminopyridine. Russian Chemical Bulletin, 2021, 70, 1304-1310.	1.5	1
62	Synthesis and NMR cryoporometry of LaF3 nanoparticles with closed pores filled by D2O. Journal of Nanoparticle Research, 2021, 24, 1.	1.9	1
63	Vibrational properties and lattice specific heat of RbFeS2. AIP Conference Proceedings, 2018, , .	0.4	0
64	Synthesis and Studies of Palladium-Iron Alloy Thin Film with L10 Ordered Structure. Russian Physics Journal, 2018, 61, 1252-1257.	0.4	0
65	The Spectral and Magnetic Properties of Er3+ and Yb3+ Ions in Y2Ti2O7 Crystals with a Pyrochlore Structure. Physics of the Solid State, 2019, 61, 818-825.	0.6	0
66	Advances in the Study of Gas Hydrates by Dielectric Spectroscopy. Molecules, 2021, 26, 4459.	3.8	0
67	Ultrafast magnetization dynamics in thin lms of L10-ordered FePt and FePd compounds: promising di erences. Magnetic Resonance in Solids, 2019, 21, .	0.2	0
68	Mesoscopic scale rearrangements of graphite nanoflake open edges under mild annealing treatments. Vacuum, 2022, 199, 110977.	3.5	0
69	Temporal Spinodal Decomposition of the Fe _{1+y} Te _{1â”'x} Se _x Crystals and its Impact on Superconducting Properties. Physica Status Solidi (B): Basic Research, 0, , .	1.5	0