Alexander Baranchikov

List of Publications by Year
in descending order

328	4,210	172457	223800
papers	citations	29 h-index	46 g-index

340	340	340	4571
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Oriented attachment of particles: 100 years of investigations of non-classical crystal growth. Russian Chemical Reviews, 2014, 83, 1204-1222.	6.5	170
2	UV-shielding property, photocatalytic activity and photocytotoxicity of ceria colloid solutions. Journal of Photochemistry and Photobiology B: Biology, 2011, 102, 32-38.	3.8	143
3	Ultrasonically assisted hydrothermal synthesis of nanocrystalline ZrO2, TiO2, NiFe2O4 and Ni0.5Zn0.5Fe2O4 powders. Ultrasonics Sonochemistry, 2006, 13, 47-53.	8.2	123
4	Rationalizing the Influence of the Mn(IV)/Mn(III) Red-Ox Transition on the Electrocatalytic Activity of Manganese Oxides in the Oxygen Reduction Reaction. Electrochimica Acta, 2016, 187, 161-172.	5.2	97
5	Specifics of pyrohydrolytic and solid-phase syntheses of solid solutions in the (MgGa2O4) x (MgFe2O4)1 â˜ x system. Russian Journal of Inorganic Chemistry, 2010, 55, 427-429.	1.3	91
6	Lattice expansion and oxygen non-stoichiometry of nanocrystalline ceria. CrystEngComm, 2010, 12, 3531.	2.6	78
7	Sonochemical synthesis of inorganic materials. Russian Chemical Reviews, 2007, 76, 133-151.	6.5	75
8	Planar SERS nanostructures with stochastic silver ring morphology for biosensor chips. Journal of Materials Chemistry, 2012, 22, 24530.	6.7	65
9	Nanocrystalline BaSnO3 as an Alternative Gas Sensor Material: Surface Reactivity and High Sensitivity to SO2. Materials, 2015, 8, 6437-6454.	2.9	63
10	Cerium fluoride nanoparticles protect cells against oxidative stress. Materials Science and Engineering C, 2015, 50, 151-159.	7.3	50
11	ZnO formation under hydrothermal conditions from zinc hydroxide compounds with various chemical histories. Russian Journal of Inorganic Chemistry, 2007, 52, 1811-1816.	1.3	48
12	Bulk and Surface Low Temperature Phase Transitions in the Mg-Alloy EZ33A. Metals, 2020, 10, 1127.	2.3	44
13	Coprecipitation from aqueous solutions to prepare binary fluorides. Russian Journal of Inorganic Chemistry, 2011, 56, 1525-1531.	1.3	43
14	Nanocrystalline ceria based materialsâ€"Perspectives for biomedical application. Biophysics (Russian) Tj ETQq0 0 0 rgBT /Overlock 10 Tf	0.7	41
15	Towards the surface hydroxyl species in CeO₂ nanoparticles. Nanoscale, 2019, 11, 18142-18149.	5.6	41
16	IR radiation assisted preparation of KOH-activated polymer-derived carbon for methylene blue adsorption. Journal of Environmental Chemical Engineering, 2019, 7, 103514.	6.7	39
17	Microwave-assisted hydrothermal synthesis and photocatalytic activity of ZnO. Inorganic Materials, 2007, 43, 35-39.	0.8	38
18	Panthenol-stabilized cerium dioxide nanoparticles for cosmeceutic formulations against ROS-induced and UV-induced damage. Journal of Photochemistry and Photobiology B: Biology, 2014, 130, 102-108.	3.8	37

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19	Selenic acid anodizing of aluminium for preparation of 1D photonic crystals. Electrochemistry Communications, 2019, 100, 104-107.	4.7	37
20	Silver-Doped Calcium Phosphate Bone Cements with Antibacterial Properties. Journal of Functional Biomaterials, 2016, 7, 10.	4.4	36
21	Synthesis of SrF2â€“YF3 nanopowders by co-precipitation from aqueous solutions. Mendeleev Communications, 2014, 24, 360-362.	1.6	35
22	Diethyl and methyl-tert-buthyl ethers as new solvents for aerogels preparation. Materials Letters, 2014, 116, 116-119.	2.6	35
23	Facile fabrication of luminescent organic dots by thermolysis of citric acid in urea melt, and their use for cell staining and polyelectrolyte microcapsule labelling. Beilstein Journal of Nanotechnology, 2016, 7, 1905-1917.	2.8	35
24	Photo-induced toxicity of tungsten oxide photochromic nanoparticles. Journal of Photochemistry and Photobiology B: Biology, 2018, 178, 395-403.	3.8	35
25	Synthesis and thermal stability of nanocrystalline ceria sols stabilized by citric and polyacrylic acids. Russian Journal of Inorganic Chemistry, 2010, 55, 328-332.	1.3	33
26	Hydrothermal and microwave-assisted synthesis of nanocrystalline ZnO photocatalysts. Superlattices and Microstructures, 2007, 42, 421-424.	3.1	32
27	High-yield microwave synthesis of layered Y₂(OH)₅NO₃Â·xH₂O materials. CrystEngComm, 2015, 17, 2667-2674.	2.6	32
28	Hexafluoroisopropyl alcohol as a new solvent for aerogels preparation. Journal of Supercritical Fluids, 2014, 89, 28-32.	3.2	31
29	Layer-by-layer assembly of porphyrin-based metalâ€“organic frameworks on solids decorated with graphene oxide. New Journal of Chemistry, 2017, 41, 948-957.	2.8	31
30	New nanocomposites for SERS studies of living cells and mitochondria. Journal of Materials Chemistry B, 2016, 4, 539-546.	5.8	30
31	Highly reversible photochromism in composite WO3/nanocellulose films. Cellulose, 2019, 26, 9095-9105.	4.9	29
32	Zinc-releasing calcium phosphate cements for bone substitute materials. Ceramics International, 2016, 42, 17310-17316.	4.8	28
33	Oxygen nonstoichiometry of nanocrystalline ceria. Russian Journal of Inorganic Chemistry, 2010, 55, 325-327.	1.3	27
34	Synthesis of micro-mesoporous aluminosilicates on the basis of ZSM-5 zeolite using dual-functional templates at presence of micellar and molecular templates. Microporous and Mesoporous Materials, 2017, 237, 90-107.	4.4	27
35	Highly Crystalline WO₃ Nanoparticles Are Nontoxic to Stem Cells and Cancer Cells. Journal of Nanomaterials, 2019, 2019, 1-13.	2.7	27
36	Bis(4-cyano-1-pyridino)pentane halobismuthates. Light-harvesting material with an optical band gap of 1.59 eV. Mendeleev Communications, 2017, 27, 271-273.	1.6	27

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37	Hydrothermal synthesis of efficient TiO2-based photocatalysts. Russian Journal of Inorganic Chemistry, 2010, 55, 150-154.	1.3	26
38	New Sr1â^'xâ^'zRx(NH4)zF2+xâ^'z (RÂ=ÂYb, Er) solid solution as precursor for high efficiency up-conversion luminophor and optical ceramics on the base of strontium fluoride. Materials Chemistry and Physics, 2016, 172, 150-157.	4.0	26
39	The Melt of Sodium Nitrate as a Medium for the Synthesis of Fluorides. Inorganics, 2018, 6, 38.	2.7	25
40	Layered rare-earth hydroxides: a new family of anion-exchangeable layered inorganic materials. Russian Chemical Reviews, 2020, 89, 629-666.	6.5	25
41	pH control of the structure, composition, and catalytic activity of sulfated zirconia. Journal of Solid State Chemistry, 2013, 198, 496-505.	2.9	24
42	Synthesis of high-purity nanocrystalline BiFeO3. Inorganic Materials, 2013, 49, 310-314.	0.8	24
43	Nanocrystalline ceria: a novel material for electrorheological fluids. RSC Advances, 2016, 6, 88851-88858.	3.6	24
44	Biocompatible dextran-coated gadolinium-doped cerium oxide nanoparticles as MRI contrast agents with high T₁ relaxivity and selective cytotoxicity to cancer cells. Journal of Materials Chemistry B, 2021, 9, 6586-6599.	5.8	24
45	Mesostructure, fractal properties and thermal decomposition of hydrous zirconia and hafnia. Russian Journal of Inorganic Chemistry, 2009, 54, 2091-2106.	1.3	22
46	Synthesis and antioxidant activity of biocompatible maltodextrin-stabilized aqueous sols of nanocrystalline ceria. Russian Journal of Inorganic Chemistry, 2012, 57, 1411-1418.	1.3	22
47	How to Tune the Alumina Aerogels Structure by the Variation of a Supercritical Solvent. Evolution of the Structure During Heat Treatment. Journal of Physical Chemistry C, 2016, 120, 3319-3325.	3.1	22
48	closo-Dodecaborate Intercalated Yttrium Hydroxide as a First Example of Boron Cluster Anion-Containing Layered Inorganic Substances. Inorganic Chemistry, 2017, 56, 3421-3428.	4.0	22
49	The first inorganic mitogens: Cerium oxide and cerium fluoride nanoparticles stimulate planarian regeneration via neoblastic activation. Materials Science and Engineering C, 2019, 104, 109924.	7.3	22
50	PVP-stabilized tungsten oxide nanoparticles: pH sensitive anti-cancer platform with high cytotoxicity. Materials Science and Engineering C, 2020, 108, 110494.	7.3	22
51	Wetting of grain boundary triple junctions by intermetallic delta-phase in the Cuâ€“In alloys. Journal of Materials Science, 2021, 56, 7840-7848.	3.7	22
52	Proton conductivity of M x H3â€“x PX12O40 and M x H4â€“x SiX12O40 (M = Rb, Cs; X = W, Mo) acid salts of heteropolyacids. Inorganic Materials, 2015, 51, 1157-1162.	0.8	21
53	Understanding Self-Assembly of Porphyrin-Based SURMOFs: How Layered Minerals Can Be Useful. Langmuir, 2018, 34, 5184-5192.	3.5	21
54	1D-Bromobismuthates of Dipyridinoalkane Derivatives. Russian Journal of Coordination Chemistry/Koordinatsionnaya Khimiya, 2018, 44, 373-379.	1.0	21

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55	Cerium dioxide nanoparticles as third-generation enzymes (nanozymes). Nanosystems: Physics, Chemistry, Mathematics, 2017, , 760-781.	0.4	21
56	Direct monitoring of the interaction between ROS and cerium dioxide nanoparticles in living cells. RSC Advances, 2014, 4, 51703-51710.	3.6	20
57	Cerium dioxide nanoparticles increase immunogenicity of the influenza vaccine. Antiviral Research, 2016, 127, 1-9.	4.1	20
58	Comparison of concentration dependence of relative fluorescence quantum yield and brightness in first biological window of wavelengths for aqueous colloidal solutions of Nd3+: LaF3 and Nd3+: KY3F10 nanocrystals synthesized by microwave-hydrothermal treatment. Journal of Alloys and Compounds, 2018, 756, 182-192.	5.5	20
59	Ultrasonically Activated Hydrothermal Synthesis of Fine TiO₂and ZrO₂Powders. Inorganic Materials, 2004, 40, 1058-1065.	0.8	19
60	Relation of Crystallinity and Fluorescent Properties of LaF₃ :Nd³⁺ Nanoparticles Synthesized with Different Water-Based Techniques. ChemistrySelect, 2017, 2, 4874-4881.	1.5	19
61	Size Effects in Nanocrystalline Thoria. Journal of Physical Chemistry C, 2019, 123, 23167-23176.	3.1	19
62	Kinetics and mechanism of nickel ferrite formation under high temperature ultrasonic treatment. Ultrasonics Sonochemistry, 2007, 14, 131-134.	8.2	18
63	Hydrothermal growth of ceria nanoparticles. Russian Journal of Inorganic Chemistry, 2009, 54, 1857-1861.	1.3	18
64	Mechanochemical activation of starting oxide mixtures for solid-state synthesis of BiFeO3. Inorganic Materials, 2013, 49, 303-309.	0.8	18
65	Photocatalytically active fluorinated nano-titania synthesized by microwave-assisted hydrothermal treatment. Journal of Photochemistry and Photobiology A: Chemistry, 2015, 303-304, 36-43.	3.9	18
66	Nanocrystalline manganese dioxide synthesis by microwave-hydrothermal treatment. Russian Journal of Inorganic Chemistry, 2015, 60, 546-551.	1.3	18
67	Combined SANS and SAXS study of the action of ultrasound on the structure of amorphous zirconia gels. Ultrasonics Sonochemistry, 2015, 24, 230-237.	8.2	18
68	Unexpected Effects of Activator Moleculesâ€™ Polarity on the Electroreological Activity of Titanium Dioxide Nanopowders. Journal of Physical Chemistry B, 2017, 121, 6732-6738.	2.6	18
69	A facile approach to fabricating ultrathin layers of reduced graphene oxide on planar solids. Carbon, 2018, 134, 62-70.	10.3	18
70	Photosensitive Organic-Inorganic Hybrid Materials for Room Temperature Gas Sensor Applications. Nanomaterials, 2018, 8, 671.	4.1	18
71	Interfacial self-assembly of functional bilayer templates comprising porphyrin arrays and graphene oxide. Journal of Colloid and Interface Science, 2018, 530, 521-531.	9.4	18
72	Laser-induced modification and formation of periodic surface structures (ripples) of amorphous GST225 phase change materials. Optics and Laser Technology, 2019, 113, 87-94.	4.6	18

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73	Microhotplate catalytic sensors based on porous anodic alumina: Operando study of methane response hysteresis. Sensors and Actuators B: Chemical, 2021, 330, 129307.	7.8	18
74	Functionalization of aerogels by the use of pre-constructed monomers: the case of trifluoroacetylated (3-aminopropyl) triethoxysilane. RSC Advances, 2014, 4, 52423-52429.	3.6	17
75	Methyltrimethoxysilane-based elastic aerogels: Effects of the supercritical medium on structure-sensitive properties. Russian Journal of Inorganic Chemistry, 2015, 60, 488-492.	1.3	17
76	Fluorescence quenching mechanism for water-dispersible Nd3+:KYF4 nanoparticles synthesized by microwave-hydrothermal technique. Journal of Luminescence, 2016, 169, 722-727.	3.1	17
77	Structural modification of titanium surface by octacalcium phosphate via Pulsed Laser Deposition and chemical treatment. Bioactive Materials, 2017, 2, 101-107.	15.6	17
78	Effects of Ag Additive in Low Temperature CO Detection with In2O3 Based Gas Sensors. Nanomaterials, 2018, 8, 801.	4.1	17
79	Cerous phosphate gels: Synthesis, thermal decomposition and hydrothermal crystallization paths. Journal of Non-Crystalline Solids, 2016, 447, 183-189.	3.1	16
80	Facile method for fabrication of surfactant-free concentrated CeO₂sols. Materials Research Express, 2017, 4, 055008.	1.6	16
81	Preparation and properties of methylcellulose/nanocellulose/Ð¡Ð°F 2 :ÐÐ¾ polymer-inorganic composite films for two-micron radiation visualizers. Journal of Fluorine Chemistry, 2017, 202, 9-18.	1.7	16
82	Thermal stability of nanocrystalline CeO2 prepared through freeze drying. Inorganic Materials, 2010, 46, 43-46.	0.8	15
83	Microwave-hydrothermal synthesis of gadolinium-doped nanocrystalline ceria in the presence of hexamethylenetetramine. Russian Journal of Inorganic Chemistry, 2012, 57, 1303-1307.	1.3	15
84	Synthesis of gadolinium hydroxo nitrate under microwave-hydrothermal treatment conditions. Russian Journal of Inorganic Chemistry, 2014, 59, 1383-1391.	1.3	15
85	Facile synthesis of fluorinated resorcinol-formaldehyde aerogels. Journal of Fluorine Chemistry, 2017, 193, 1-7.	1.7	15
86	Concentration self-quenching of luminescence in crystal matrices activated by Nd3+ ions: Theory and experiment. Journal of Luminescence, 2018, 198, 138-145.	3.1	15
87	Calcifying Bacteria Flexibility in Induction of CaCO3 Mineralization. Life, 2020, 10, 317.	2.4	15
88	Nanoceria-curcumin conjugate: Synthesis and selective cytotoxicity against cancer cells under oxidative stress conditions. Journal of Photochemistry and Photobiology B: Biology, 2020, 209, 111921.	3.8	15
89	Fractal structure of ceria nanopowders. Inorganic Materials, 2008, 44, 272-277.	0.8	14
90	Synthesis and luminescence properties of Eu2+- and Ce3+-doped AlONs. Ceramics International, 2016, 42, 286-293.	4.8	14

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91	Comparative study of the electrorheological effect in suspensions of needle-like and isotropic cerium dioxide nanoparticles. Rheologica Acta, 2018, 57, 307-315.	2.4	14
92	Eu-Doped layered yttrium hydroxides sensitized by a series of benzenedicarboxylate and sulphobenzoate anions. Dalton Transactions, 2019, 48, 6111-6122.	3.3	14
93	Polyimide-Based Nanocomposites with Binary CeO2/Nanocarbon Fillers: Conjointly Enhanced Thermal and Mechanical Properties. Polymers, 2020, 12, 1952.	4.5	14
94	Photonic crystal enhancement of Raman scattering. Physical Chemistry Chemical Physics, 2020, 22, 9630-9636.	2.8	14
95	Title is missing!. Doklady Chemistry, 2003, 389, 62-64.	0.9	13
96	Chemical transformations of basic yttrium nitrates during ultrasonic-hydrothermal treatment. Russian Journal of Inorganic Chemistry, 2006, 51, 1689-1695.	1.3	13
97	Preparation of barium monohydrofluoride BaF2Â·HF from nitrate aqueous solutions. Materials Research Bulletin, 2014, 49, 199-205.	5.2	13
98	Synthesis of cerium orthophosphates with monazite and rhabdophane structure from phosphoric acid solutions in the presence of hydrogen peroxide. Russian Journal of Inorganic Chemistry, 2016, 61, 1219-1224.	1.3	13
99	NIR fluorescence quenching by OH acceptors in the Nd 3+ doped KY 3 F 10 nanoparticles synthesized by microwave-hydrothermal treatment. Journal of Alloys and Compounds, 2016, 661, 312-321.	5.5	13
100	First rare-earth phosphate aerogel: solâ€“gel synthesis of monolithic ceric hydrogen phosphate aerogel. Journal of Sol-Gel Science and Technology, 2018, 85, 574-584.	2.4	13
101	Luminescent alumina-based aerogels modified with tris(8-hydroxyquinolinato)aluminum. Journal of Sol-Gel Science and Technology, 2018, 86, 400-409.	2.4	13
102	The relationship between the crystal structure and optical properties for isomeric aminopyridinium iodobismuthates. Mendeleev Communications, 2018, 28, 490-492.	1.6	13
103	Exfoliation of layered yttrium hydroxide by rapid expansion of supercritical suspensions. Journal of Supercritical Fluids, 2019, 150, 40-48.	3.2	13
104	Photoluminescent porous aerogel monoliths containing ZnEu-complex: the first example of aerogel modified with a heteronuclear metal complex. Journal of Sol-Gel Science and Technology, 2019, 92, 304-318.	2.4	13
105	Synthesis of Magnetic Nanopowders of Iron Oxide: Magnetite and Maghemite. Russian Journal of Inorganic Chemistry, 2020, 65, 426-430.	1.3	13
106	WO3 thermodynamic properties at 80â€“1256ÂK revisited. Journal of Thermal Analysis and Calorimetry, 2020, 142, 1533-1543.	3.6	13
107	Interfacial self-assembly of porphyrin-based SURMOF/graphene oxide hybrids with tunable pore size: An approach toward size-selective ambivalent heterogeneous photocatalysts. Applied Surface Science, 2022, 579, 152080.	6.1	13
108	Microstructural Evolution of Fe2O3and ZnFe2O4during Sonochemical Synthesis of Zinc Ferrite. Inorganic Materials, 2004, 40, 1091-1094.	0.8	12

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109	Synthesis of ultrafine fluorite Sr1 â˜' x Nd x F2 + x powders. Inorganic Materials, 2012, 48, 531-538.	0.8	12
110	Cyclometalated ruthenium complex as a promising sensitizer in dye-sensitized solar cells. Russian Journal of Electrochemistry, 2014, 50, 503-509.	0.9	12
111	Synthesis of a peroxo derivative of layered yttrium hydroxide. Russian Journal of Inorganic Chemistry, 2015, 60, 1027-1033.	1.3	12
112	Electrochemical Properties of Carbon Aerogel Electrodes: Dependence on Synthesis Temperature. Molecules, 2019, 24, 3847.	3.8	12
113	Photochromic and Photocatalytic Properties of Ultra-Small PVP-Stabilized WO3 Nanoparticles. Molecules, 2020, 25, 154.	3.8	12
114	Nanoceria: Metabolic interactions and delivery through PLGA-encapsulation. Materials Science and Engineering C, 2020, 114, 111003.	7.3	12
115	Engineering SiO2â€“TiO2 binary aerogels for sun protection and cosmetic applications. Journal of Supercritical Fluids, 2021, 169, 105099.	3.2	12
116	Kinetics and mechanism of the high-temperature sonochemical synthesis of spinel-type ferrites. Mendeleev Communications, 2004, 14, 143-144.	1.6	11
117	Phase diagram of the NaFâ€“CaF2 system and the electrical conductivity of a CaF2-based solid solution. Russian Journal of Inorganic Chemistry, 2016, 61, 1472-1478.	1.3	11
118	Methyl tert-butyl ether as a new solvent for the preparation of SiO2â€“TiO2 binary aerogels. Inorganic Materials, 2016, 52, 163-169.	0.8	11
119	First MnO2-based electrorheological fluids: high response at low filler concentration. Rheologica Acta, 2019, 58, 719-728.	2.4	11
120	Supramolecular Organogels Based on N-Benzyl, Nâ€²-Acylbispidinols. Nanomaterials, 2019, 9, 89.	4.1	11
121	High electrorheological effect in Bi1.8Fe1.2SbO7 suspensions. Powder Technology, 2020, 360, 96-103.	4.2	11
122	Selective Synthesis of Manganese Dioxide Polymorphs by the Hydrothermal Treatment of Aqueous KMnO4 Solutions. Russian Journal of Inorganic Chemistry, 2021, 66, 146-152.	1.3	11
123	Functionalization of Aerogels with Coordination Compounds. Russian Journal of Coordination Chemistry/Koordinatsionnaya Khimiya, 2022, 48, 89-117.	1.0	11
124	Hydrophobicity/hydrophilicity control for SiO2-based aerogels: The role of a supercritical solvent. Russian Journal of Inorganic Chemistry, 2015, 60, 1169-1172.	1.3	10
125	Synthesis of nanocrystalline birnessite and cryptomelane by microwave hydrothermal treatment. Russian Journal of Inorganic Chemistry, 2015, 60, 1299-1303.	1.3	10
126	Synthesis of aluminum oxynitride (AlON) and study of the properties of ceramics based on it. Inorganic Materials: Applied Research, 2016, 7, 517-519.	0.5	10

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127	New insights into polymer mediated formation of anatase mesocrystals. CrystEngComm, 2017, 19, 3281-3287.	2.6	10
128	Morphological structure of Gluconacetobacter xylinus cellulose and cellulose-based organic-inorganic composite materials. Journal of Physics: Conference Series, 2017, 848, 012017.	0.4	10
129	Effect of the Support Nature on Stability of Nickel and Nickelâ€“Cobalt Catalysts for Partial Oxidation and Dry Reforming of Methane to Synthesis Gas. Petroleum Chemistry, 2019, 59, 385-393.	1.4	10
130	Preparation of â€œNaREF4â€•phases from the sodium nitrate melt. Journal of Fluorine Chemistry, 2019, 218, 69-75.	1.7	10
131	Bacterial Cellulose-Based Nanocomposites Containing Ceria and Their Use in the Process of Stem Cell Proliferation. Polymers, 2021, 13, 1999.	4.5	10
132	Crystalline WO3 nanoparticles for No2 sensing. Processing and Application of Ceramics, 2020, 14, 282-292.	0.8	10
133	Kinetics of the Formation of Zinc Ferrite in an Ultrasonic Field. Doklady Chemistry, 2004, 397, 146-148.	0.9	9
134	Evolution of composition and fractal structure of hydrous zirconia xerogels during thermal annealing. Russian Journal of Inorganic Chemistry, 2010, 55, 155-161.	1.3	9
135	Ultrasound-induced changes in mesostructure of amorphous iron (III) hydroxide xerogels: A small-angle neutron scattering study. Physical Review B, 2010, 81, .	3.2	9
136	Synthesis of Nanocrystalline Titania via Microwave-Assisted Homogeneous Hydrolysis Under Hydrothermal Conditions. Current Microwave Chemistry, 2014, 1, 81-86.	0.8	9
137	Microbead silica decorated with polyhedral silver nanoparticles as a versatile component of sacrificial gel films for SERS applications. RSC Advances, 2015, 5, 90335-90342.	3.6	9
138	Selective hydrothermal microwave synthesis of various manganese dioxide polymorphs. Russian Journal of Inorganic Chemistry, 2016, 61, 129-134.	1.3	9
139	Experimental Study of the Effects of Nanodispersed Ceria on Wound Repair. Bulletin of Experimental Biology and Medicine, 2017, 162, 395-399.	0.8	9
140	Comparative analysis of the physicochemical characteristics of SiO2 aerogels prepared by drying under subcritical and supercritical conditions. Inorganic Materials, 2017, 53, 1270-1278.	0.8	9
141	Ultrasonic disintegration of tungsten trioxide pseudomorphs after ammonium paratungstate as a route for stable aqueous sols of nanocrystalline WO3. Journal of Materials Science, 2018, 53, 1758-1768.	3.7	9
142	An approach for highly transparent titania aerogels preparation. Materials Letters, 2018, 215, 19-22.	2.6	9
143	Structural Analysis of Aluminum Oxyhydroxide Aerogel by Small Angle X-Ray Scattering. Journal of Surface Investigation, 2018, 12, 296-305.	0.5	9
144	Unexpected selective enhancement of the thermal stability of aromatic polyimide materials by cerium dioxide nanoparticles. Polymers for Advanced Technologies, 2019, 30, 1518-1524.	3.2	9

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145	Crystallization Pathways of Cerium(IV) Phosphates Under Hydrothermal Conditions: A Search for New Phases with a Tunnel Structure. European Journal of Inorganic Chemistry, 2019, 2019, 3242-3248.	2.0	9
146	Fast and simple approach for production of antibacterial nanocellulose/cuprous oxide hybrid films. Cellulose, 2021, 28, 2931-2945.	4.9	9
147	Effect of hydrothermal and ultrasonic/hydrothermal treatment on the phase composition and micromorphology of yttrium hydroxocarbonate. Russian Journal of Inorganic Chemistry, 2007, 52, 1321-1327.	1.3	8
148	Synthesis and luminescent characteristics of submicron powders on the basis of sodium and yttrium fluorides doped with rare earth elements. Nanotechnologies in Russia, 2012, 7, 615-628.	0.7	8
149	Synthesis and characterization of fluoride xerogels. Inorganic Materials, 2013, 49, 1152-1156.	0.8	8
150	Effect of synthetic conditions on the properties of methyltrimethoxysilane-based aerogels. Russian Journal of Inorganic Chemistry, 2014, 59, 1392-1395.	1.3	8
151	Effect of the pH on the formation of NaYF4:Yb:Er nanopowders by co-crystallization in presence of polyethyleneimine. Journal of Fluorine Chemistry, 2014, 158, 60-64.	1.7	8
152	SiO2â€“TiO2 binary aerogels: Synthesis in new supercritical fluids and study of thermal stability. Russian Journal of Inorganic Chemistry, 2016, 61, 1339-1346.	1.3	8
153	Catalytic Properties of Hierarchical Zeolites ZrAl-BEA in the Synthesis of 4-Methoxybenzyl sec-Butyl Ether from Anisaldehyde. Theoretical and Experimental Chemistry, 2017, 53, 122-129.	0.8	8
154	Propylene oxide as a new reagent for mixed SiO 2 -based aerogels preparation. Journal of Sol-Gel Science and Technology, 2017, 84, 377-381.	2.4	8
155	Chiral lactate-modified silica aerogels. Microporous and Mesoporous Materials, 2017, 237, 127-131.	4.4	8
156	Synthesis Gas Production by Partial Oxidation of Methane and Dry Reforming of Methane in the Presence of Novel Niâ€“Co/MFI Catalysts. Petroleum Chemistry, 2018, 58, 203-213.	1.4	8
157	Phase Equilibria in LiYF4â€“LiLuF4 System and Heat Conductivity of LiY1â€“xLu x F4 Single Crystals. Russian Journal of Inorganic Chemistry, 2018, 63, 433-438.	1.3	8
158	1D Ceric Hydrogen Phosphate Aerogels: Noncarbonaceous Ultraflyweight Monolithic Aerogels. ACS Omega, 2020, 5, 17592-17600.	3.5	8
159	Immobilization of Heterocycle-Appended Porphyrins on UiO-66 and UiO-67 MOFs. Russian Journal of Inorganic Chemistry, 2021, 66, 193-201.	1.3	8
160	Lowâ€temperature phase formation in the SrF₂â€“LaF₃ system. Journal of the American Ceramic Society, 2021, 104, 2836-2848.	3.8	8
161	Hydrophobization of organic resorcinol-formaldehyde aerogels by fluoroacylation. Journal of Fluorine Chemistry, 2021, 244, 109742.	1.7	8
162	Crystal and Supramolecular Structure of Bacterial Cellulose Hydrolyzed by Cellobiohydrolase from Scytalidium Candidum 3C: A Basis for Development of Biodegradable Wound Dressings. Materials, 2020, 13, 2087.	2.9	8

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163	Cerium(IV) Orthophosphates (Review). Russian Journal of Inorganic Chemistry, 2021, 66, 1761-1778.	1.3	8
164	Title is missing!. Inorganic Materials, 2002, 38, 714-717.	0.8	7
165	Synthesis of superfine titania via high-temperature hydrolysis of titanium(IV) bis(ammonium lactato) dihydroxide. Doklady Chemistry, 2011, 441, 361-364.	0.9	7
166	Complete inheritance of fractal properties during first-order phase transition. Journal of Physics and Chemistry of Solids, 2014, 75, 296-299.	4.0	7
167	Soft chemistry synthesis of powders in the BaF2-ScF3 system. Russian Journal of Inorganic Chemistry, 2014, 59, 773-777.	1.3	7
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