

Alexander Baranchikov

List of Publications by Year in descending order

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326
papers

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citations

172207

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223531

46
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340
all docs

340
docs citations

340
times ranked

4571
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.	2.5	170
2	UV-shielding property, photocatalytic activity and photocytotoxicity of ceria colloid solutions. Journal of Photochemistry and Photobiology B: Biology, 2011, 102, 32-38.	1.7	143
3	Ultrasonically assisted hydrothermal synthesis of nanocrystalline ZrO ₂ , TiO ₂ , NiFe ₂ O ₄ and Ni _{0.5} Zn _{0.5} Fe ₂ O ₄ powders. Ultrasonics Sonochemistry, 2006, 13, 47-53.	3.8	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.	2.6	97
5	Specifics of pyrohydrolytic and solid-phase syntheses of solid solutions in the (MgGa ₂ O ₄) _x (MgFe ₂ O ₄) _{1-x} system. Russian Journal of Inorganic Chemistry, 2010, 55, 427-429.	0.3	91
6	Lattice expansion and oxygen non-stoichiometry of nanocrystalline ceria. CrystEngComm, 2010, 12, 3531.	1.3	78
7	Sonochemical synthesis of inorganic materials. Russian Chemical Reviews, 2007, 76, 133-151.	2.5	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 BaSnO ₃ as an Alternative Gas Sensor Material: Surface Reactivity and High Sensitivity to SO ₂ . Materials, 2015, 8, 6437-6454.	1.3	63
10	Cerium fluoride nanoparticles protect cells against oxidative stress. Materials Science and Engineering C, 2015, 50, 151-159.	3.8	50
11	ZnO formation under hydrothermal conditions from zinc hydroxide compounds with various chemical histories. Russian Journal of Inorganic Chemistry, 2007, 52, 1811-1816.	0.3	48
12	Bulk and Surface Low Temperature Phase Transitions in the Mg-Alloy EZ33A. Metals, 2020, 10, 1127.	1.0	44
13	Coprecipitation from aqueous solutions to prepare binary fluorides. Russian Journal of Inorganic Chemistry, 2011, 56, 1525-1531.	0.3	43
14	Nanocrystalline ceria based materials – Perspectives for biomedical application. Biophysics (Russian) 2010, 41, 100-104.	0.2	41
15	Towards the surface hydroxyl species in CeO ₂ nanoparticles. Nanoscale, 2019, 11, 18142-18149.	2.8	41
16	IR radiation assisted preparation of KOH-activated polymer-derived carbon for methylene blue adsorption. Journal of Environmental Chemical Engineering, 2019, 7, 103514.	3.3	39
17	Microwave-assisted hydrothermal synthesis and photocatalytic activity of ZnO. Inorganic Materials, 2007, 43, 35-39.	0.2	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.	1.7	37

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19	Selenic acid anodizing of aluminium for preparation of 1D photonic crystals. <i>Electrochemistry Communications</i> , 2019, 100, 104-107.	2.3	37
20	Silver-Doped Calcium Phosphate Bone Cements with Antibacterial Properties. <i>Journal of Functional Biomaterials</i> , 2016, 7, 10.	1.8	36
21	Synthesis of SrF ₂ •YF ₃ nanopowders by co-precipitation from aqueous solutions. <i>Mendeleev Communications</i> , 2014, 24, 360-362.	0.6	35
22	Diethyl and methyl-tert-butyl ethers as new solvents for aerogels preparation. <i>Materials Letters</i> , 2014, 116, 116-119.	1.3	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. <i>Beilstein Journal of Nanotechnology</i> , 2016, 7, 1905-1917.	1.5	35
24	Photo-induced toxicity of tungsten oxide photochromic nanoparticles. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2018, 178, 395-403.	1.7	35
25	Synthesis and thermal stability of nanocrystalline ceria sols stabilized by citric and polyacrylic acids. <i>Russian Journal of Inorganic Chemistry</i> , 2010, 55, 328-332.	0.3	33
26	Hydrothermal and microwave-assisted synthesis of nanocrystalline ZnO photocatalysts. <i>Superlattices and Microstructures</i> , 2007, 42, 421-424.	1.4	32
27	High-yield microwave synthesis of layered Y ₂ (OH) ₅ NO ₃ •xH ₂ O materials. <i>CrystEngComm</i> , 2015, 17, 2667-2674.	1.3	32
28	Hexafluoroisopropyl alcohol as a new solvent for aerogels preparation. <i>Journal of Supercritical Fluids</i> , 2014, 89, 28-32.	1.6	31
29	Layer-by-layer assembly of porphyrin-based metal-organic frameworks on solids decorated with graphene oxide. <i>New Journal of Chemistry</i> , 2017, 41, 948-957.	1.4	31
30	New nanocomposites for SERS studies of living cells and mitochondria. <i>Journal of Materials Chemistry B</i> , 2016, 4, 539-546.	2.9	30
31	Highly reversible photochromism in composite WO ₃ /nanocellulose films. <i>Cellulose</i> , 2019, 26, 9095-9105.	2.4	29
32	Zinc-releasing calcium phosphate cements for bone substitute materials. <i>Ceramics International</i> , 2016, 42, 17310-17316.	2.3	28
33	Oxygen nonstoichiometry of nanocrystalline ceria. <i>Russian Journal of Inorganic Chemistry</i> , 2010, 55, 325-327.	0.3	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. <i>Microporous and Mesoporous Materials</i> , 2017, 237, 90-107.	2.2	27
35	Highly Crystalline WO ₃ Nanoparticles Are Nontoxic to Stem Cells and Cancer Cells. <i>Journal of Nanomaterials</i> , 2019, 2019, 1-13.	1.5	27
36	Bis(4-cyano-1-pyridino)pentane halobismuthates. Light-harvesting material with an optical band gap of 1.59 eV. <i>Mendeleev Communications</i> , 2017, 27, 271-273.	0.6	27

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37	Hydrothermal synthesis of efficient TiO ₂ -based photocatalysts. Russian Journal of Inorganic Chemistry, 2010, 55, 150-154.	0.3	26
38	New Sr _{1-x} R _x (NH ₄) ₂ F _{2+x} (R = Yb, 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.	2.0	26
39	The Melt of Sodium Nitrate as a Medium for the Synthesis of Fluorides. Inorganics, 2018, 6, 38.	1.2	25
40	Layered rare-earth hydroxides: a new family of anion-exchangeable layered inorganic materials. Russian Chemical Reviews, 2020, 89, 629-666.	2.5	25
41	pH control of the structure, composition, and catalytic activity of sulfated zirconia. Journal of Solid State Chemistry, 2013, 198, 496-505.	1.4	24
42	Synthesis of high-purity nanocrystalline BiFeO ₃ . Inorganic Materials, 2013, 49, 310-314.	0.2	24
43	Nanocrystalline ceria: a novel material for electrorheological fluids. RSC Advances, 2016, 6, 88851-88858.	1.7	24
44	Biocompatible dextran-coated gadolinium-doped cerium oxide nanoparticles as MRI contrast agents with high T ₁ relaxivity and selective cytotoxicity to cancer cells. Journal of Materials Chemistry B, 2021, 9, 6586-6599.	2.9	24
45	Mesostructure, fractal properties and thermal decomposition of hydrous zirconia and hafnia. Russian Journal of Inorganic Chemistry, 2009, 54, 2091-2106.	0.3	22
46	Synthesis and antioxidant activity of biocompatible maltodextrin-stabilized aqueous sols of nanocrystalline ceria. Russian Journal of Inorganic Chemistry, 2012, 57, 1411-1418.	0.3	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.	1.5	22
48	Dodecaborate Intercalated Yttrium Hydroxide as a First Example of Boron Cluster Anion-Containing Layered Inorganic Substances. Inorganic Chemistry, 2017, 56, 3421-3428.	1.9	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.	3.8	22
50	PVP-stabilized tungsten oxide nanoparticles: pH sensitive anti-cancer platform with high cytotoxicity. Materials Science and Engineering C, 2020, 108, 110494.	3.8	22
51	Wetting of grain boundary triple junctions by intermetallic delta-phase in the Cu-In alloys. Journal of Materials Science, 2021, 56, 7840-7848.	1.7	22
52	Proton conductivity of M _x H ₃ P _x W ₁₂ O ₄₀ and M _x H ₄ P _x Si ₁₂ O ₄₀ (M = Rb, Cs; X = W, Mo) acid salts of heteropolyacids. Inorganic Materials, 2015, 51, 1157-1162.	0.2	21
53	Understanding Self-Assembly of Porphyrin-Based SURMOFs: How Layered Minerals Can Be Useful. Langmuir, 2018, 34, 5184-5192.	1.6	21
54	1D-Bromobismuthates of Dipyridinoalkane Derivatives. Russian Journal of Coordination Chemistry/Koordinatsionnaya Khimiya, 2018, 44, 373-379.	0.3	21

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55	Cerium dioxide nanoparticles as third-generation enzymes (nanozymes). <i>Nanosystems: Physics, Chemistry, Mathematics</i> , 2017, , 760-781.	0.2	21
56	Direct monitoring of the interaction between ROS and cerium dioxide nanoparticles in living cells. <i>RSC Advances</i> , 2014, 4, 51703-51710.	1.7	20
57	Cerium dioxide nanoparticles increase immunogenicity of the influenza vaccine. <i>Antiviral Research</i> , 2016, 127, 1-9.	1.9	20
58	Comparison of concentration dependence of relative fluorescence quantum yield and brightness in first biological window of wavelengths for aqueous colloidal solutions of Nd ³⁺ : LaF ₃ and Nd ³⁺ : KY ₃ F ₁₀ nanocrystals synthesized by microwave-hydrothermal treatment. <i>Journal of Alloys and Compounds</i> , 2018, 756, 182-192.	2.8	20
59	Ultrasonically Activated Hydrothermal Synthesis of Fine TiO ₂ and ZrO ₂ Powders. <i>Inorganic Materials</i> , 2004, 40, 1058-1065.	0.2	19
60	Relation of Crystallinity and Fluorescent Properties of LaF ₃ :Nd ³⁺ Nanoparticles Synthesized with Different Water-Based Techniques. <i>ChemistrySelect</i> , 2017, 2, 4874-4881.	0.7	19
61	Size Effects in Nanocrystalline Thoria. <i>Journal of Physical Chemistry C</i> , 2019, 123, 23167-23176.	1.5	19
62	Kinetics and mechanism of nickel ferrite formation under high temperature ultrasonic treatment. <i>Ultrasonics Sonochemistry</i> , 2007, 14, 131-134.	3.8	18
63	Hydrothermal growth of ceria nanoparticles. <i>Russian Journal of Inorganic Chemistry</i> , 2009, 54, 1857-1861.	0.3	18
64	Mechanochemical activation of starting oxide mixtures for solid-state synthesis of BiFeO ₃ . <i>Inorganic Materials</i> , 2013, 49, 303-309.	0.2	18
65	Photocatalytically active fluorinated nano-titania synthesized by microwave-assisted hydrothermal treatment. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2015, 303-304, 36-43.	2.0	18
66	Nanocrystalline manganese dioxide synthesis by microwave-hydrothermal treatment. <i>Russian Journal of Inorganic Chemistry</i> , 2015, 60, 546-551.	0.3	18
67	Combined SANS and SAXS study of the action of ultrasound on the structure of amorphous zirconia gels. <i>Ultrasonics Sonochemistry</i> , 2015, 24, 230-237.	3.8	18
68	Unexpected Effects of Activator Molecules' Polarity on the Electroreological Activity of Titanium Dioxide Nanopowders. <i>Journal of Physical Chemistry B</i> , 2017, 121, 6732-6738.	1.2	18
69	A facile approach to fabricating ultrathin layers of reduced graphene oxide on planar solids. <i>Carbon</i> , 2018, 134, 62-70.	5.4	18
70	Photosensitive Organic-Inorganic Hybrid Materials for Room Temperature Gas Sensor Applications. <i>Nanomaterials</i> , 2018, 8, 671.	1.9	18
71	Interfacial self-assembly of functional bilayer templates comprising porphyrin arrays and graphene oxide. <i>Journal of Colloid and Interface Science</i> , 2018, 530, 521-531.	5.0	18
72	Laser-induced modification and formation of periodic surface structures (ripples) of amorphous GST225 phase change materials. <i>Optics and Laser Technology</i> , 2019, 113, 87-94.	2.2	18

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73	Microhotplate catalytic sensors based on porous anodic alumina: Operando study of methane response hysteresis. <i>Sensors and Actuators B: Chemical</i> , 2021, 330, 129307.	4.0	18
74	Functionalization of aerogels by the use of pre-constructed monomers: the case of trifluoroacetylated (3-aminopropyl) triethoxysilane. <i>RSC Advances</i> , 2014, 4, 52423-52429.	1.7	17
75	Methyltrimethoxysilane-based elastic aerogels: Effects of the supercritical medium on structure-sensitive properties. <i>Russian Journal of Inorganic Chemistry</i> , 2015, 60, 488-492.	0.3	17
76	Fluorescence quenching mechanism for water-dispersible Nd ³⁺ :KYF ₄ nanoparticles synthesized by microwave-hydrothermal technique. <i>Journal of Luminescence</i> , 2016, 169, 722-727.	1.5	17
77	Structural modification of titanium surface by octacalcium phosphate via Pulsed Laser Deposition and chemical treatment. <i>Bioactive Materials</i> , 2017, 2, 101-107.	8.6	17
78	Effects of Ag Additive in Low Temperature CO Detection with In ₂ O ₃ Based Gas Sensors. <i>Nanomaterials</i> , 2018, 8, 801.	1.9	17
79	Cerous phosphate gels: Synthesis, thermal decomposition and hydrothermal crystallization paths. <i>Journal of Non-Crystalline Solids</i> , 2016, 447, 183-189.	1.5	16
80	Facile method for fabrication of surfactant-free concentrated CeO ₂ sols. <i>Materials Research Express</i> , 2017, 4, 055008.	0.8	16
81	Preparation and properties of methylcellulose/nanocellulose/DF ₂ ·DF _{3/4} polymer-inorganic composite films for two-micron radiation visualizers. <i>Journal of Fluorine Chemistry</i> , 2017, 202, 9-18.	0.9	16
82	Thermal stability of nanocrystalline CeO ₂ prepared through freeze drying. <i>Inorganic Materials</i> , 2010, 46, 43-46.	0.2	15
83	Microwave-hydrothermal synthesis of gadolinium-doped nanocrystalline ceria in the presence of hexamethylenetetramine. <i>Russian Journal of Inorganic Chemistry</i> , 2012, 57, 1303-1307.	0.3	15
84	Synthesis of gadolinium hydroxo nitrate under microwave-hydrothermal treatment conditions. <i>Russian Journal of Inorganic Chemistry</i> , 2014, 59, 1383-1391.	0.3	15
85	Facile synthesis of fluorinated resorcinol-formaldehyde aerogels. <i>Journal of Fluorine Chemistry</i> , 2017, 193, 1-7.	0.9	15
86	Concentration self-quenching of luminescence in crystal matrices activated by Nd ³⁺ ions: Theory and experiment. <i>Journal of Luminescence</i> , 2018, 198, 138-145.	1.5	15
87	Calcifying Bacteria Flexibility in Induction of CaCO ₃ Mineralization. <i>Life</i> , 2020, 10, 317.	1.1	15
88	Nanoceria-curcumin conjugate: Synthesis and selective cytotoxicity against cancer cells under oxidative stress conditions. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2020, 209, 111921.	1.7	15
89	Fractal structure of ceria nanopowders. <i>Inorganic Materials</i> , 2008, 44, 272-277.	0.2	14
90	Synthesis and luminescence properties of Eu ²⁺ - and Ce ³⁺ -doped AlONs. <i>Ceramics International</i> , 2016, 42, 286-293.	2.3	14

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91	Comparative study of the electrorheological effect in suspensions of needle-like and isotropic cerium dioxide nanoparticles. <i>Rheologica Acta</i> , 2018, 57, 307-315.	1.1	14
92	Eu-Doped layered yttrium hydroxides sensitized by a series of benzenedicarboxylate and sulphobenzoate anions. <i>Dalton Transactions</i> , 2019, 48, 6111-6122.	1.6	14
93	Polyimide-Based Nanocomposites with Binary CeO ₂ /Nanocarbon Fillers: Conjointly Enhanced Thermal and Mechanical Properties. <i>Polymers</i> , 2020, 12, 1952.	2.0	14
94	Photonic crystal enhancement of Raman scattering. <i>Physical Chemistry Chemical Physics</i> , 2020, 22, 9630-9636.	1.3	14
95	Title is missing!. <i>Doklady Chemistry</i> , 2003, 389, 62-64.	0.2	13
96	Chemical transformations of basic yttrium nitrates during ultrasonic-hydrothermal treatment. <i>Russian Journal of Inorganic Chemistry</i> , 2006, 51, 1689-1695.	0.3	13
97	Preparation of barium monohydrofluoride BaF ₂ ·HF from nitrate aqueous solutions. <i>Materials Research Bulletin</i> , 2014, 49, 199-205.	2.7	13
98	Synthesis of cerium orthophosphates with monazite and rhabdophane structure from phosphoric acid solutions in the presence of hydrogen peroxide. <i>Russian Journal of Inorganic Chemistry</i> , 2016, 61, 1219-1224.	0.3	13
99	NIR fluorescence quenching by OH acceptors in the Nd ³⁺ doped KY ₃ F ₁₀ nanoparticles synthesized by microwave-hydrothermal treatment. <i>Journal of Alloys and Compounds</i> , 2016, 661, 312-321.	2.8	13
100	First rare-earth phosphate aerogel: sol-gel synthesis of monolithic ceric hydrogen phosphate aerogel. <i>Journal of Sol-Gel Science and Technology</i> , 2018, 85, 574-584.	1.1	13
101	Luminescent alumina-based aerogels modified with tris(8-hydroxyquinolino)aluminum. <i>Journal of Sol-Gel Science and Technology</i> , 2018, 86, 400-409.	1.1	13
102	The relationship between the crystal structure and optical properties for isomeric aminopyridinium iodobismuthates. <i>Mendeleev Communications</i> , 2018, 28, 490-492.	0.6	13
103	Exfoliation of layered yttrium hydroxide by rapid expansion of supercritical suspensions. <i>Journal of Supercritical Fluids</i> , 2019, 150, 40-48.	1.6	13
104	Photoluminescent porous aerogel monoliths containing ZnEu-complex: the first example of aerogel modified with a heteronuclear metal complex. <i>Journal of Sol-Gel Science and Technology</i> , 2019, 92, 304-318.	1.1	13
105	Synthesis of Magnetic Nanopowders of Iron Oxide: Magnetite and Maghemite. <i>Russian Journal of Inorganic Chemistry</i> , 2020, 65, 426-430.	0.3	13
106	WO ₃ thermodynamic properties at 80–1256 K revisited. <i>Journal of Thermal Analysis and Calorimetry</i> , 2020, 142, 1533-1543.	2.0	13
107	Interfacial self-assembly of porphyrin-based SURMOF/graphene oxide hybrids with tunable pore size: An approach toward size-selective ambivalent heterogeneous photocatalysts. <i>Applied Surface Science</i> , 2022, 579, 152080.	3.1	13
108	Microstructural Evolution of Fe ₂ O ₃ and ZnFe ₂ O ₄ during Sonochemical Synthesis of Zinc Ferrite. <i>Inorganic Materials</i> , 2004, 40, 1091-1094.	0.2	12

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109	Synthesis of ultrafine fluorite $Sr_{1-x}Nd_xF_{2+x}$ powders. <i>Inorganic Materials</i> , 2012, 48, 531-538.	0.2	12
110	Cyclometalated ruthenium complex as a promising sensitizer in dye-sensitized solar cells. <i>Russian Journal of Electrochemistry</i> , 2014, 50, 503-509.	0.3	12
111	Synthesis of a peroxy derivative of layered yttrium hydroxide. <i>Russian Journal of Inorganic Chemistry</i> , 2015, 60, 1027-1033.	0.3	12
112	Electrochemical Properties of Carbon Aerogel Electrodes: Dependence on Synthesis Temperature. <i>Molecules</i> , 2019, 24, 3847.	1.7	12
113	Photochromic and Photocatalytic Properties of Ultra-Small PVP-Stabilized WO_3 Nanoparticles. <i>Molecules</i> , 2020, 25, 154.	1.7	12
114	Nanoceria: Metabolic interactions and delivery through PLGA-encapsulation. <i>Materials Science and Engineering C</i> , 2020, 114, 111003.	3.8	12
115	Engineering SiO_2/TiO_2 binary aerogels for sun protection and cosmetic applications. <i>Journal of Supercritical Fluids</i> , 2021, 169, 105099.	1.6	12
116	Kinetics and mechanism of the high-temperature sonochemical synthesis of spinel-type ferrites. <i>Mendeleev Communications</i> , 2004, 14, 143-144.	0.6	11
117	Phase diagram of the $NaF-CaF_2$ system and the electrical conductivity of a CaF_2 -based solid solution. <i>Russian Journal of Inorganic Chemistry</i> , 2016, 61, 1472-1478.	0.3	11
118	Methyl tert-butyl ether as a new solvent for the preparation of SiO_2/TiO_2 binary aerogels. <i>Inorganic Materials</i> , 2016, 52, 163-169.	0.2	11
119	First MnO_2 -based electrorheological fluids: high response at low filler concentration. <i>Rheologica Acta</i> , 2019, 58, 719-728.	1.1	11
120	Supramolecular Organogels Based on N-Benzyl, N^{ϵ} -Acylbispipidinols. <i>Nanomaterials</i> , 2019, 9, 89.	1.9	11
121	High electrorheological effect in $Bi_{1.8}Fe_{1.2}Sb_7O_{70}$ suspensions. <i>Powder Technology</i> , 2020, 360, 96-103.	2.1	11
122	Selective Synthesis of Manganese Dioxide Polymorphs by the Hydrothermal Treatment of Aqueous $KMnO_4$ Solutions. <i>Russian Journal of Inorganic Chemistry</i> , 2021, 66, 146-152.	0.3	11
123	Functionalization of Aerogels with Coordination Compounds. <i>Russian Journal of Coordination Chemistry/Koordinatsionnaya Khimiya</i> , 2022, 48, 89-117.	0.3	11
124	Hydrophobicity/hydrophilicity control for SiO_2 -based aerogels: The role of a supercritical solvent. <i>Russian Journal of Inorganic Chemistry</i> , 2015, 60, 1169-1172.	0.3	10
125	Synthesis of nanocrystalline birnessite and cryptomelane by microwave hydrothermal treatment. <i>Russian Journal of Inorganic Chemistry</i> , 2015, 60, 1299-1303.	0.3	10
126	Synthesis of aluminum oxynitride (AlON) and study of the properties of ceramics based on it. <i>Inorganic Materials: Applied Research</i> , 2016, 7, 517-519.	0.1	10

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127	New insights into polymer mediated formation of anatase mesocrystals. <i>CrystEngComm</i> , 2017, 19, 3281-3287.	1.3	10
128	Morphological structure of <i>Gluconacetobacter xylinus</i> cellulose and cellulose-based organic-inorganic composite materials. <i>Journal of Physics: Conference Series</i> , 2017, 848, 012017.	0.3	10
129	Effect of the Support Nature on Stability of Nickel and Nickel-Cobalt Catalysts for Partial Oxidation and Dry Reforming of Methane to Synthesis Gas. <i>Petroleum Chemistry</i> , 2019, 59, 385-393.	0.4	10
130	Preparation of α - NaREF_4 phases from the sodium nitrate melt. <i>Journal of Fluorine Chemistry</i> , 2019, 218, 69-75.	0.9	10
131	Bacterial Cellulose-Based Nanocomposites Containing Ceria and Their Use in the Process of Stem Cell Proliferation. <i>Polymers</i> , 2021, 13, 1999.	2.0	10
132	Crystalline WO_3 nanoparticles for NO_2 sensing. <i>Processing and Application of Ceramics</i> , 2020, 14, 282-292.	0.4	10
133	Kinetics of the Formation of Zinc Ferrite in an Ultrasonic Field. <i>Doklady Chemistry</i> , 2004, 397, 146-148.	0.2	9
134	Evolution of composition and fractal structure of hydrous zirconia xerogels during thermal annealing. <i>Russian Journal of Inorganic Chemistry</i> , 2010, 55, 155-161.	0.3	9
135	Ultrasound-induced changes in mesostructure of amorphous iron (III) hydroxide xerogels: A small-angle neutron scattering study. <i>Physical Review B</i> , 2010, 81, .	1.1	9
136	Synthesis of Nanocrystalline Titania via Microwave-Assisted Homogeneous Hydrolysis Under Hydrothermal Conditions. <i>Current Microwave Chemistry</i> , 2014, 1, 81-86.	0.2	9
137	Microbead silica decorated with polyhedral silver nanoparticles as a versatile component of sacrificial gel films for SERS applications. <i>RSC Advances</i> , 2015, 5, 90335-90342.	1.7	9
138	Selective hydrothermal microwave synthesis of various manganese dioxide polymorphs. <i>Russian Journal of Inorganic Chemistry</i> , 2016, 61, 129-134.	0.3	9
139	Experimental Study of the Effects of Nanodispersed Ceria on Wound Repair. <i>Bulletin of Experimental Biology and Medicine</i> , 2017, 162, 395-399.	0.3	9
140	Comparative analysis of the physicochemical characteristics of SiO_2 aerogels prepared by drying under subcritical and supercritical conditions. <i>Inorganic Materials</i> , 2017, 53, 1270-1278.	0.2	9
141	Ultrasonic disintegration of tungsten trioxide pseudomorphs after ammonium paratungstate as a route for stable aqueous sols of nanocrystalline WO_3 . <i>Journal of Materials Science</i> , 2018, 53, 1758-1768.	1.7	9
142	An approach for highly transparent titania aerogels preparation. <i>Materials Letters</i> , 2018, 215, 19-22.	1.3	9
143	Structural Analysis of Aluminum Oxyhydroxide Aerogel by Small Angle X-Ray Scattering. <i>Journal of Surface Investigation</i> , 2018, 12, 296-305.	0.1	9
144	Unexpected selective enhancement of the thermal stability of aromatic polyimide materials by cerium dioxide nanoparticles. <i>Polymers for Advanced Technologies</i> , 2019, 30, 1518-1524.	1.6	9

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145	Crystallization Pathways of Cerium(IV) Phosphates Under Hydrothermal Conditions: A Search for New Phases with a Tunnel Structure. <i>European Journal of Inorganic Chemistry</i> , 2019, 2019, 3242-3248.	1.0	9
146	Fast and simple approach for production of antibacterial nanocellulose/cuprous oxide hybrid films. <i>Cellulose</i> , 2021, 28, 2931-2945.	2.4	9
147	Effect of hydrothermal and ultrasonic/hydrothermal treatment on the phase composition and micromorphology of yttrium hydroxocarbonate. <i>Russian Journal of Inorganic Chemistry</i> , 2007, 52, 1321-1327.	0.3	8
148	Synthesis and luminescent characteristics of submicron powders on the basis of sodium and yttrium fluorides doped with rare earth elements. <i>Nanotechnologies in Russia</i> , 2012, 7, 615-628.	0.7	8
149	Synthesis and characterization of fluoride xerogels. <i>Inorganic Materials</i> , 2013, 49, 1152-1156.	0.2	8
150	Effect of synthetic conditions on the properties of methyltrimethoxysilane-based aerogels. <i>Russian Journal of Inorganic Chemistry</i> , 2014, 59, 1392-1395.	0.3	8
151	Effect of the pH on the formation of NaYF ₄ :Yb:Er nanopowders by co-crystallization in presence of polyethyleneimine. <i>Journal of Fluorine Chemistry</i> , 2014, 158, 60-64.	0.9	8
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