

Alexander Baranchikov

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306
papers

3,056
citations

24
h-index

39
g-index

340
ext. papers

3,635
ext. citations

2.4
avg, IF

5.36
L-index

#	Paper	IF	Citations
306	Oriented attachment of particles: 100 years of investigations of non-classical crystal growth. <i>Russian Chemical Reviews</i> , 2014 , 83, 1204-1222	6.8	141
305	UV-shielding property, photocatalytic activity and photocytotoxicity of ceria colloid solutions. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2011 , 102, 32-8	6.7	122
304	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. <i>Ultrasonics Sonochemistry</i> , 2006 , 13, 47-53	8.9	114
303	Rationalizing the Influence of the Mn(IV)/Mn(III) Red-Ox Transition on the Electrocatalytic Activity of Manganese Oxides in the Oxygen Reduction Reaction. <i>Electrochimica Acta</i> , 2016 , 187, 161-172	6.7	75
302	Lattice expansion and oxygen non-stoichiometry of nanocrystalline ceria. <i>CrystEngComm</i> , 2010 , 12, 3531-3	3.3	68
301	Specifics of pyrohydrolytic and solid-phase syntheses of solid solutions in the (MgGa ₂ O ₄) _x (MgFe ₂ O ₄) _{1-x} system. <i>Russian Journal of Inorganic Chemistry</i> , 2010 , 55, 427-429	1.5	65
300	Sonochemical synthesis of inorganic materials. <i>Russian Chemical Reviews</i> , 2007 , 76, 133-151	6.8	64
299	Planar SERS nanostructures with stochastic silver ring morphology for biosensor chips. <i>Journal of Materials Chemistry</i> , 2012 , 22, 24530		57
298	ZnO formation under hydrothermal conditions from zinc hydroxide compounds with various chemical histories. <i>Russian Journal of Inorganic Chemistry</i> , 2007 , 52, 1811-1816	1.5	44
297	Nanocrystalline BaSnO ₃ as an Alternative Gas Sensor Material: Surface Reactivity and High Sensitivity to SO ₂ . <i>Materials</i> , 2015 , 8, 6437-6454	3.5	40
296	Coprecipitation from aqueous solutions to prepare binary fluorides. <i>Russian Journal of Inorganic Chemistry</i> , 2011 , 56, 1525-1531	1.5	40
295	Cerium fluoride nanoparticles protect cells against oxidative stress. <i>Materials Science and Engineering C</i> , 2015 , 50, 151-9	8.3	38
294	Microwave-assisted hydrothermal synthesis and photocatalytic activity of ZnO. <i>Inorganic Materials</i> , 2007 , 43, 35-39	0.9	36
293	Synthesis of SrF ₂ /F ₃ nanopowders by co-precipitation from aqueous solutions. <i>Mendeleev Communications</i> , 2014 , 24, 360-362	1.9	34
292	Bulk and Surface Low Temperature Phase Transitions in the Mg-Alloy EZ33A. <i>Metals</i> , 2020 , 10, 1127	2.3	32
291	Panthenol-stabilized cerium dioxide nanoparticles for cosmetic formulations against ROS-induced and UV-induced damage. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2014 , 130, 102-8	6.7	31
290	Diethyl and methyl-tert-butyl ethers as new solvents for aerogels preparation. <i>Materials Letters</i> , 2014 , 116, 116-119	3.3	30

289	Hydrothermal and microwave-assisted synthesis of nanocrystalline ZnO photocatalysts. <i>Superlattices and Microstructures</i> , 2007 , 42, 421-424	2.8	30
288	Nanocrystalline ceria based materials Perspectives for biomedical application. <i>Biophysics (Russian Federation)</i> , 2011 , 56, 987-1004	0.7	28
287	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	3	28
286	Hexafluoroisopropyl alcohol as a new solvent for aerogels preparation. <i>Journal of Supercritical Fluids</i> , 2014 , 89, 28-32	4.2	27
285	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	1.5	27
284	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	5.3	26
283	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	1.9	25
282	High-yield microwave synthesis of layered $Y_2(OH)_5NO_3 \cdot xH_2O$ materials. <i>CrystEngComm</i> , 2015 , 17, 2667-2674	3.6	24
281	Silver-Doped Calcium Phosphate Bone Cements with Antibacterial Properties. <i>Journal of Functional Biomaterials</i> , 2016 , 7,	4.8	24
280	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	3.6	23
279	New nanocomposites for SERS studies of living cells and mitochondria. <i>Journal of Materials Chemistry B</i> , 2016 , 4, 539-546	7.3	23
278	Oxygen nonstoichiometry of nanocrystalline ceria. <i>Russian Journal of Inorganic Chemistry</i> , 2010 , 55, 325-327	3.7	23
277	Towards the surface hydroxyl species in CeO nanoparticles. <i>Nanoscale</i> , 2019 , 11, 18142-18149	7.7	23
276	Selenic acid anodizing of aluminium for preparation of 1D photonic crystals. <i>Electrochemistry Communications</i> , 2019 , 100, 104-107	5.1	22
275	New $Sr_{1-x}R_x(NH_4)zF_{2+x}$ ($R = Yb, Er$) solid solution as precursor for high efficiency up-conversion luminophor and optical ceramics on the base of strontium fluoride. <i>Materials Chemistry and Physics</i> , 2016 , 172, 150-157	4.4	22
274	IR radiation assisted preparation of KOH-activated polymer-derived carbon for methylene blue adsorption. <i>Journal of Environmental Chemical Engineering</i> , 2019 , 7, 103514	6.8	21
273	pH control of the structure, composition, and catalytic activity of sulfated zirconia. <i>Journal of Solid State Chemistry</i> , 2013 , 198, 496-505	3.3	21
272	Synthesis of high-purity nanocrystalline $BiFeO_3$. <i>Inorganic Materials</i> , 2013 , 49, 310-314	0.9	21

271	Mesostructure, fractal properties and thermal decomposition of hydrous zirconia and hafnia. <i>Russian Journal of Inorganic Chemistry</i> , 2009 , 54, 2091-2106	1.5	21
270	Zinc-releasing calcium phosphate cements for bone substitute materials. <i>Ceramics International</i> , 2016 , 42, 17310-17316	5.1	21
269	1D-Bromobismuthates of Dipyridinoalkane Derivatives. <i>Russian Journal of Coordination Chemistry/Koordinatsionnaya Khimiya</i> , 2018 , 44, 373-379	1.6	20
268	Hydrothermal synthesis of efficient TiO ₂ -based photocatalysts. <i>Russian Journal of Inorganic Chemistry</i> , 2010 , 55, 150-154	1.5	20
267	Photo-induced toxicity of tungsten oxide photochromic nanoparticles. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2018 , 178, 395-403	6.7	20
266	The Melt of Sodium Nitrate as a Medium for the Synthesis of Fluorides. <i>Inorganics</i> , 2018 , 6, 38	2.9	19
265	Nanocrystalline ceria: a novel material for electrorheological fluids. <i>RSC Advances</i> , 2016 , 6, 88851-88858	3.7	18
264	Mechanochemical activation of starting oxide mixtures for solid-state synthesis of BiFeO ₃ . <i>Inorganic Materials</i> , 2013 , 49, 303-309	0.9	18
263	Proton conductivity of M x H ₃ X ₂ PX ₁₂ O ₄₀ and M x H ₄ X ₂ SiX ₁₂ O ₄₀ (M = Rb, Cs; X = W, Mo) acid salts of heteropolyacids. <i>Inorganic Materials</i> , 2015 , 51, 1157-1162	0.9	17
262	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	5.7	17
261	How to Tune the Alumina Aerogels Structure by the Variation of a Supercritical Solvent. Evolution of the Structure During Heat Treatment. <i>Journal of Physical Chemistry C</i> , 2016 , 120, 3319-3325	3.8	17
260	Ultrasonically Activated Hydrothermal Synthesis of Fine TiO ₂ and ZrO ₂ Powders. <i>Inorganic Materials</i> , 2004 , 40, 1058-1065	0.9	17
259	closo-Dodecaborate Intercalated Yttrium Hydroxide as a First Example of Boron Cluster Anion-Containing Layered Inorganic Substances. <i>Inorganic Chemistry</i> , 2017 , 56, 3421-3428	5.1	16
258	Combined SANS and SAXS study of the action of ultrasound on the structure of amorphous zirconia gels. <i>Ultrasonics Sonochemistry</i> , 2015 , 24, 230-7	8.9	16
257	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	3.7	16
256	Synthesis and antioxidant activity of biocompatible maltodextrin-stabilized aqueous sols of nanocrystalline ceria. <i>Russian Journal of Inorganic Chemistry</i> , 2012 , 57, 1411-1418	1.5	16
255	Kinetics and mechanism of nickel ferrite formation under high temperature ultrasonic treatment. <i>Ultrasonics Sonochemistry</i> , 2007 , 14, 131-4	8.9	16
254	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	1.8	15

253	Highly reversible photochromism in composite WO ₃ /nanocellulose films. <i>Cellulose</i> , 2019 , 26, 9095-9105	5.5	15
252	Methyltrimethoxysilane-based elastic aerogels: Effects of the supercritical medium on structure-sensitive properties. <i>Russian Journal of Inorganic Chemistry</i> , 2015 , 60, 488-492	1.5	15
251	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	4.7	15
250	Photosensitive Organic-Inorganic Hybrid Materials for Room Temperature Gas Sensor Applications. <i>Nanomaterials</i> , 2018 , 8,	5.4	15
249	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	3.4	14
248	Understanding Self-Assembly of Porphyrin-Based SURMOFs: How Layered Minerals Can Be Useful. <i>Langmuir</i> , 2018 , 34, 5184-5192	4	14
247	A facile approach to fabricating ultrathin layers of reduced graphene oxide on planar solids. <i>Carbon</i> , 2018 , 134, 62-70	10.4	14
246	Direct monitoring of the interaction between ROS and cerium dioxide nanoparticles in living cells. <i>RSC Advances</i> , 2014 , 4, 51703-51710	3.7	14
245	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	3.8	13
244	Highly Crystalline WO ₃ Nanoparticles Are Nontoxic to Stem Cells and Cancer Cells. <i>Journal of Nanomaterials</i> , 2019 , 2019, 1-13	3.2	13
243	Preparation and properties of methylcellulose/nanocellulose/P2-D-polymer-inorganic composite films for two-micron radiation visualizers. <i>Journal of Fluorine Chemistry</i> , 2017 , 202, 9-18	2.1	13
242	Facile synthesis of fluorinated resorcinol-formaldehyde aerogels. <i>Journal of Fluorine Chemistry</i> , 2017 , 193, 1-7	2.1	13
241	Thermal stability of nanocrystalline CeO ₂ prepared through freeze drying. <i>Inorganic Materials</i> , 2010 , 46, 43-46	0.9	13
240	Hydrothermal growth of ceria nanoparticles. <i>Russian Journal of Inorganic Chemistry</i> , 2009 , 54, 1857-1861	1.5	13
239	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	4.2	13
238	Wetting of grain boundary triple junctions by intermetallic delta-phase in the CuTh alloys. <i>Journal of Materials Science</i> , 2021 , 56, 7840-7848	4.3	13
237	Size Effects in Nanocrystalline Thoria. <i>Journal of Physical Chemistry C</i> , 2019 , 123, 23167-23176	3.8	12
236	Nanocrystalline manganese dioxide synthesis by microwave-hydrothermal treatment. <i>Russian Journal of Inorganic Chemistry</i> , 2015 , 60, 546-551	1.5	12

- 235 Comparative study of the electrorheological effect in suspensions of needle-like and isotropic cerium dioxide nanoparticles. *Rheologica Acta*, **2018**, 57, 307-315 2.3 12
- 234 Concentration self-quenching of luminescence in crystal matrices activated by Nd³⁺ ions: Theory and experiment. *Journal of Luminescence*, **2018**, 198, 138-145 3.8 12
- 233 First rare-earth phosphate aerogel: sol-gel synthesis of monolithic ceric hydrogen phosphate aerogel. *Journal of Sol-Gel Science and Technology*, **2018**, 85, 574-584 2.3 12
- 232 Cerous phosphate gels: Synthesis, thermal decomposition and hydrothermal crystallization paths. *Journal of Non-Crystalline Solids*, **2016**, 447, 183-189 3.9 12
- 231 Synthesis of gadolinium hydroxo nitrate under microwave-hydrothermal treatment conditions. *Russian Journal of Inorganic Chemistry*, **2014**, 59, 1383-1391 1.5 12
- 230 Preparation of barium monohydrofluoride BaF₂·HF from nitrate aqueous solutions. *Materials Research Bulletin*, **2014**, 49, 199-205 5.1 12
- 229 Microwave-hydrothermal synthesis of gadolinium-doped nanocrystalline ceria in the presence of hexamethylenetetramine. *Russian Journal of Inorganic Chemistry*, **2012**, 57, 1303-1307 1.5 12
- 228 Fractal structure of ceria nanopowders. *Inorganic Materials*, **2008**, 44, 272-277 0.9 12
- 227 Microstructural Evolution of Fe₂O₃ and ZnFe₂O₄ during Sonochemical Synthesis of Zinc Ferrite. *Inorganic Materials*, **2004**, 40, 1091-1094 0.9 12
- 226 The relationship between the crystal structure and optical properties for isomeric aminopyridinium iodobismuthates. *Mendeleev Communications*, **2018**, 28, 490-492 1.9 12
- 225 Structural modification of titanium surface by octacalcium phosphate via Pulsed Laser Deposition and chemical treatment. *Bioactive Materials*, **2017**, 2, 101-107 16.7 11
- 224 Luminescent alumina-based aerogels modified with tris(8-hydroxyquinolino)aluminum. *Journal of Sol-Gel Science and Technology*, **2018**, 86, 400-409 2.3 11
- 223 Cyclometalated ruthenium complex as a promising sensitizer in dye-sensitized solar cells. *Russian Journal of Electrochemistry*, **2014**, 50, 503-509 1.2 11
- 222 Synthesis of ultrafine fluorite Sr_{1-x}Nd_xF_{2+x} powders. *Inorganic Materials*, **2012**, 48, 531-538 0.9 11
- 221 Synthesis of Nanodisperse Co₃O₄ Powders under Hydrothermal Conditions with Concurrent Ultrasonic Treatment. *Doklady Chemistry*, **2003**, 389, 62-64 0.8 11
- 220 PVP-stabilized tungsten oxide nanoparticles: pH sensitive anti-cancer platform with high cytotoxicity. *Materials Science and Engineering C*, **2020**, 108, 110494 8.3 11
- 219 Effects of Ag Additive in Low Temperature CO Detection with In₂O₃-Based Gas Sensors. *Nanomaterials*, **2018**, 8, 5.4 11
- 218 Synthesis and luminescence properties of Eu²⁺- and Ce³⁺-doped ALONs. *Ceramics International*, **2016**, 42, 286-293 5.1 10

217	Synthesis of nanocrystalline birnessite and cryptomelane by microwave hydrothermal treatment. <i>Russian Journal of Inorganic Chemistry</i> , 2015 , 60, 1299-1303	1.5	10
216	Layered rare-earth hydroxides: a new family of anion-exchangeable layered inorganic materials. <i>Russian Chemical Reviews</i> , 2020 , 89, 629-666	6.8	10
215	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	1.5	10
214	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	0.9	10
213	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	9.3	10
212	The first inorganic mitogens: Cerium oxide and cerium fluoride nanoparticles stimulate planarian regeneration via neoblastic activation. <i>Materials Science and Engineering C</i> , 2019 , 104, 109924	8.3	10
211	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	1.5	10
210	Eu-Doped layered yttrium hydroxides sensitized by a series of benzenedicarboxylate and sulphobenzoate anions. <i>Dalton Transactions</i> , 2019 , 48, 6111-6122	4.3	10
209	New insights into polymer mediated formation of anatase mesocrystals. <i>CrystEngComm</i> , 2017 , 19, 3281-3287	3.9	9
208	Cerium dioxide nanoparticles increase immunogenicity of the influenza vaccine. <i>Antiviral Research</i> , 2016 , 127, 1-9	10.8	9
207	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	5.7	9
206	Synthesis of a peroxo derivative of layered yttrium hydroxide. <i>Russian Journal of Inorganic Chemistry</i> , 2015 , 60, 1027-1033	1.5	9
205	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	1.5	9
204	Ultrasound-induced changes in mesostructure of amorphous iron (III) hydroxide xerogels: A small-angle neutron scattering study. <i>Physical Review B</i> , 2010 , 81,	3.3	9
203	Evolution of composition and fractal structure of hydrous zirconia xerogels during thermal annealing. <i>Russian Journal of Inorganic Chemistry</i> , 2010 , 55, 155-161	1.5	9
202	High electrorheological effect in Bi _{1.8} Fe _{1.2} SbO ₇ suspensions. <i>Powder Technology</i> , 2020 , 360, 96-103	5.2	9
201	Exfoliation of layered yttrium hydroxide by rapid expansion of supercritical suspensions. <i>Journal of Supercritical Fluids</i> , 2019 , 150, 40-48	4.2	8
200	Supramolecular Organogels Based on -Benzyl, -Acylbispidinols. <i>Nanomaterials</i> , 2019 , 9,	5.4	8

199	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	0.9	8
198	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	0.6	8
197	Chemical transformations of basic yttrium nitrates during ultrasonic-hydrothermal treatment. <i>Russian Journal of Inorganic Chemistry</i> , 2006 , 51, 1689-1695	1.5	8
196	Cerium dioxide nanoparticles as third-generation enzymes (nanozymes). <i>Nanosystems: Physics, Chemistry, Mathematics</i> , 2017 , 760-781	1.8	8
195	Experimental Study of the Effects of Nanodispersed Ceria on Wound Repair. <i>Bulletin of Experimental Biology and Medicine</i> , 2017 , 162, 395-399	0.8	7
194	Electrochemical Properties of Carbon Aerogel Electrodes: Dependence on Synthesis Temperature. <i>Molecules</i> , 2019 , 24,	4.8	7
193	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	1.1	7
192	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	2.3	7
191	Hexafluoroacetone: A new solvent for manufacturing SiO ₂ -based aerogels. <i>Russian Journal of Inorganic Chemistry</i> , 2015 , 60, 541-545	1.5	7
190	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	3.7	7
189	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	6.7	7
188	Synthesis of Magnetic Nanopowders of Iron Oxide: Magnetite and Maghemite. <i>Russian Journal of Inorganic Chemistry</i> , 2020 , 65, 426-430	1.5	7
187	SiO ₂ aerogels modified by perfluoro acid amides: a precisely controlled hydrophobicity. <i>RSC Advances</i> , 2016 , 6, 80766-80772	3.7	7
186	Synthesis Gas Production by Partial Oxidation of Methane and Dry Reforming of Methane in the Presence of Novel NiCo/MFI Catalysts. <i>Petroleum Chemistry</i> , 2018 , 58, 203-213	1.1	7
185	Structural Analysis of Aluminum Oxyhydroxide Aerogel by Small Angle X-Ray Scattering. <i>Journal of Surface Investigation</i> , 2018 , 12, 296-305	0.5	7
184	First MnO ₂ -based electrorheological fluids: high response at low filler concentration. <i>Rheologica Acta</i> , 2019 , 58, 719-728	2.3	7
183	Complete inheritance of fractal properties during first-order phase transition. <i>Journal of Physics and Chemistry of Solids</i> , 2014 , 75, 296-299	3.9	7
182	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	2.1	7

181	Selective hydrothermal microwave synthesis of various manganese dioxide polymorphs. <i>Russian Journal of Inorganic Chemistry</i> , 2016 , 61, 129-134	1.5	7
180	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	0.6	7
179	Preparation of NaREF ₄ phases from the sodium nitrate melt. <i>Journal of Fluorine Chemistry</i> , 2019 , 218, 69-75	2.1	7
178	Microhotplate catalytic sensors based on porous anodic alumina: Operando study of methane response hysteresis. <i>Sensors and Actuators B: Chemical</i> , 2021 , 330, 129307	8.5	7
177	Catalytic Materials Based on Hydrotalcite-Like Aluminum, Magnesium, Nickel, and Cobalt Hydroxides for Partial Oxidation and Dry Reforming of Methane to Synthesis Gas. <i>Petroleum Chemistry</i> , 2018 , 58, 418-426	1.1	7
176	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	3.2	6
175	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	4.3	6
174	Hierarchic nanostructuring by self-reduction of silver (I) oxide complexes. <i>Functional Materials Letters</i> , 2016 , 09, 1650014	1.2	6
173	Phase Equilibria in LiYF ₄ /LiLuF ₄ System and Heat Conductivity of LiY _{1-x} Lu _x F ₄ Single Crystals. <i>Russian Journal of Inorganic Chemistry</i> , 2018 , 63, 433-438	1.5	6
172	Soft chemistry synthesis of powders in the BaF ₂ -ScF ₃ system. <i>Russian Journal of Inorganic Chemistry</i> , 2014 , 59, 773-777	1.5	6
171	On the size effect in nanocrystalline cerium dioxide: Is the Tsunekawa model correct?. <i>Journal of Surface Investigation</i> , 2014 , 8, 997-1001	0.5	6
170	Chiral lactate-modified silica aerogels. <i>Microporous and Mesoporous Materials</i> , 2017 , 237, 127-131	5.3	6
169	Microwave-Assisted Hydrothermal Synthesis of Layered Europium Hydroxynitrate, Eu ₂ (OH) ₅ NO ₃ ·xH ₂ O. <i>Current Microwave Chemistry</i> , 2015 , 3, 3-8	0.7	6
168	Effects caused by glutamic acid and hydrogen peroxide on the morphology of hydroxyapatite, calcium hydrogen phosphate, and calcium pyrophosphate. <i>Russian Journal of Inorganic Chemistry</i> , 2015 , 60, 1-8	1.5	6
167	Synthesis of Nanocrystalline Titania via Microwave-Assisted Homogeneous Hydrolysis Under Hydrothermal Conditions. <i>Current Microwave Chemistry</i> , 2014 , 1, 81-86	0.7	6
166	Effect of synthetic conditions on the properties of methyltrimethoxysilane-based aerogels. <i>Russian Journal of Inorganic Chemistry</i> , 2014 , 59, 1392-1395	1.5	6
165	Synthesis of superfine titania via high-temperature hydrolysis of titanium(IV) bis(ammonium lactato) dihydroxide. <i>Doklady Chemistry</i> , 2011 , 441, 361-364	0.8	6
164	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	1.5	6

163	Crystal and Supramolecular Structure of Bacterial Cellulose Hydrolyzed by Cellobiohydrolase from 3C: A Basis for Development of Biodegradable Wound Dressings. <i>Materials</i> , 2020 , 13,	3.5	6
162	Polyimide-Based Nanocomposites with Binary CeO/Nanocarbon Fillers: Conjointly Enhanced Thermal and Mechanical Properties. <i>Polymers</i> , 2020 , 12,	4.5	6
161	Calcifying Bacteria Flexibility in Induction of CaCO Mineralization. <i>Life</i> , 2020 , 10,	3	6
160	An approach for highly transparent titania aerogels preparation. <i>Materials Letters</i> , 2018 , 215, 19-22	3.3	6
159	Biocompatible dextran-coated gadolinium-doped cerium oxide nanoparticles as MRI contrast agents with high T relaxivity and selective cytotoxicity to cancer cells. <i>Journal of Materials Chemistry B</i> , 2021 , 9, 6586-6599	7.3	6
158	New synthesis route for obtaining carbon-free hexagonal RE manganites via novel simple individual precursors. The interplay between magnetic and thermodynamic properties of hexagonal RMnO ₃ (R = Ho, Yb, Y). <i>Polyhedron</i> , 2017 , 122, 184-193	2.7	5
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