Alexander Baranchikov

List of Publications by Year in Descending Order

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	A photonic crystal material for the online detection of nonpolar hydrocarbon vapors.. *Beilstein Journal of Nanotechnology*, **2022**, 13, 127-136	3	0
305	Development of pseudocapacitive materials based on cobalt and iron oxide compounds for an asymmetric energy storage device. *Electrochimica Acta*, **2022**, 410, 139999	6.7	0
304	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	6.7	1
303	Functionalization of Aerogels with Coordination Compounds. *Russian Journal of Coordination Chemistry/Koordinatsionnaya Khimiya*, **2022**, 48, 89-117	1.6	1
302	Photocatalytic Activity of Fluorinated Titanium Dioxide in Ozone Decomposition. *Russian Journal of Applied Chemistry*, **2022**, 95, 118-125	0.8	
301	Morphology and Structure of a Charge of Detonation Nanodiamond Doped with Boron. *Glass Physics and Chemistry*, **2022**, 48, 43-49	0.7	0
300	On the Thermal Decomposition of Cerium(IV) Hydrogen Phosphate Ce(PO4)(HPO4)0.5(H2O)0.5. *Russian Journal of Inorganic Chemistry*, **2021**, 66, 1624-1632	1.5	1
299	Ion-Driven Self-Assembly of Lanthanide Bis-phthalocyaninates into Conductive Quasi-MOF Nanowires: an Approach toward Easily Recyclable Organic Electronics. *Inorganic Chemistry*, **2021**, 60, 15509-15518	5.1	0
298	Development and Research on Ion-Conducting Membranes Based on Cross-Linked Polyvinyl Alcohol. *Glass Physics and Chemistry*, **2021**, 47, 173-180	0.7	1
297	Hierarchical highly porous composite ceramic material modified by hydrophobic methyltrimetoxysilane-based aerogel. *Journal of Porous Materials*, **2021**, 28, 1237	2.4	1
296	Selective Synthesis of □WO3 and □WO3?H2O by the Hydrothermal Treatment of Peroxotungstic Acid. *Russian Journal of Inorganic Chemistry*, **2021**, 66, 496-501	1.5	0
295	Hydrophobization of organic resorcinol-formaldehyde aerogels by fluoroacylation. *Journal of Fluorine Chemistry*, **2021**, 244, 109742	2.1	4
294	Structure, Properties, and Phytoprotective Functions of Titanium Dioxide Nanopowders and Their Aqueous Suspensions. *Russian Journal of Inorganic Chemistry*, **2021**, 66, 765-772	1.5	1
293	Selective Radiosensitizing Effect of Amorphous Hafnia Modified with Organic Quantum Dots on Normal and Malignant Cells. *Russian Journal of Inorganic Chemistry*, **2021**, 66, 931-937	1.5	
292	SiO2□TiO2 Binary Aerogels: A Small-Angle Scattering Study. *Russian Journal of Inorganic Chemistry*, **2021**, 66, 874-882	1.5	4
291	Microhotplate catalytic sensors based on porous anodic alumina: Operando study of methane response hysteresis. *Sensors and Actuators B: Chemical*, **2021**, 330, 129307	8.5	7
290	Engineering SiO2□TiO2 binary aerogels for sun protection and cosmetic applications. *Journal of Supercritical Fluids*, **2021**, 169, 105099	4.2	5

289	The Structure and Properties of TiO2 Nanopowders for Use in Agricultural Technologies. *Biointerface Research in Applied Chemistry*, **2021**, 11, 12285-12300	2.8	2
288	Wetting of grain boundary triple junctions by intermetallic delta-phase in the Cu□n alloys. *Journal of Materials Science*, **2021**, 56, 7840-7848	4.3	13
287	Surface-enhanced Raman scattering in ETPTA inverse photonic crystals with gold nanoparticles. *Physical Chemistry Chemical Physics*, **2021**, 23, 20275-20281	3.6	0
286	Immobilization of Heterocycle-Appended Porphyrins on UiO-66 and UiO-67 MOFs. *Russian Journal of Inorganic Chemistry*, **2021**, 66, 193-201	1.5	3
285	Layered Rare Earth Hydroxides React with Formamide to Give [Ln(HCOO)3 □2(HCONH2)]. *Russian Journal of Inorganic Chemistry*, **2021**, 66, 125-132	1.5	1
284	Extraction Reprocessing of Fe,Ni-Containing Parts of Ni□MH Batteries. *Russian Journal of Inorganic Chemistry*, **2021**, 66, 266-272	1.5	4
283	Low-temperature phase formation in the SrF2□aF3 system. *Journal of the American Ceramic Society*, **2021**, 104, 2836-2848	3.8	0
282	Selective Synthesis of Manganese Dioxide Polymorphs by the Hydrothermal Treatment of Aqueous KMnO4 Solutions. *Russian Journal of Inorganic Chemistry*, **2021**, 66, 146-152	1.5	2
281	Photonic and plasmonic effects in inverse opal films with Au nanoparticles. *Photonics and Nanostructures - Fundamentals and Applications*, **2021**, 43, 100899	2.6	0
280	The Effect of Sulfating Agent Nature on the Catalytic Activity Tin Dioxide Aerogel. *Russian Journal of Inorganic Chemistry*, **2021**, 66, 288-293	1.5	1
279	Removal of Acidic-Sulfur-Containing Components from Gasoline Fractions and Their Simulated Analogues Using Silica Gel Modified with Transition-Metal Carboxylates. *ACS Omega*, **2021**, 6, 23181-23190	3.9	0
278	Biocompatible dextran-coated gadolinium-doped cerium oxide nanoparticles as MRI contrast agents with high T relaxivity and selective cytotoxicity to cancer cells. *Journal of Materials Chemistry B*, **2021**, 9, 6586-6599	7.3	6
277	The first amorphous and crystalline yttrium lactate: synthesis and structural features.. *RSC Advances*, **2021**, 11, 30195-30205	3.7	0
276	Fast and simple approach for production of antibacterial nanocellulose/cuprous oxide hybrid films. *Cellulose*, **2021**, 28, 2931-2945	5.5	1
275	One-Step Synthesis and Electrical Conductivity of CdSe-Based Nanocomposites. *Inorganic Materials*, **2021**, 57, 1221-1233	0.9	
274	Cerium(IV) Orthophosphates (Review). *Russian Journal of Inorganic Chemistry*, **2021**, 66, 1761-1778	1.5	1
273	Electrorheological Fluids Based on Bismuth Ferrites BiFeO3 and Bi2Fe4O9. *Russian Journal of Inorganic Chemistry*, **2020**, 65, 1253-1263	1.5	1
272	Influence of Nanosized Cerium Oxide on the Thermal Characteristics of Aromatic Polyimide Films. *Polymer Science - Series C*, **2020**, 62, 196-204	1.1	2

271	Selective Hydrothermal Synthesis of [(CH3)2NH2]V3O7, VO2(D), and V2O3 in the Presence of N,N-Dimethylformamide. *Russian Journal of Inorganic Chemistry*, **2020**, 65, 488-494	1.5	1
270	The Possibilities of Application of Porous Aerogels Based on Alginates in Wound Healing. *Polymer Science - Series D*, **2020**, 13, 206-208	0.4	
269	Layered rare-earth hydroxides: a new family of anion-exchangeable layered inorganic materials. *Russian Chemical Reviews*, **2020**, 89, 629-666	6.8	10
268	Nanoceria-curcumin conjugate: Synthesis and selective cytotoxicity against cancer cells under oxidative stress conditions. *Journal of Photochemistry and Photobiology B: Biology*, **2020**, 209, 111921	6.7	7
267	Is Supercritical So Critical? The Choice of Temperature to Synthesize SiO2 Aerogels. *Russian Journal of Inorganic Chemistry*, **2020**, 65, 255-262	1.5	5
266	Synthesis and Research of Functional Layers Based on Titanium Dioxide Nanoparticles and Silica Sols Formed on the Surface of Seeds of Chinese Cabbage. *Russian Journal of Applied Chemistry*, **2020**, 93, 25-34	0.8	1
265	Catalytic Materials Based on Hydrotalcite-Like Aluminum, Magnesium, Nickel, and Cobalt Hydroxides: Effect of the Nickel/Cobalt Ratio on the Results of Partial Oxidation and Dry Reforming of Methane to Synthesis Gas. *Petroleum Chemistry*, **2020**, 60, 194-203	1.1	2
264	Development and Research of Electroactive Pseudocapacitor Electrode Pastes Based on MnO2. *Glass Physics and Chemistry*, **2020**, 46, 96-101	0.7	1
263	Meet the Cerium(IV) Phosphate Sisters: Ce (OH)PO and Ce O(PO). *Chemistry - A European Journal*, **2020**, 26, 12188-12193	4.8	3
262	1D Ceric Hydrogen Phosphate Aerogels: Noncarbonaceous Ultraflyweight Monolithic Aerogels. *ACS Omega*, **2020**, 5, 17592-17600	3.9	3
261	Hydrothermal Synthesis of Aqueous Sols of Nanocrystalline HfO2. *Russian Journal of Inorganic Chemistry*, **2020**, 65, 800-804	1.5	1
260	Photonic crystal enhancement of Raman scattering. *Physical Chemistry Chemical Physics*, **2020**, 22, 9630-9636	3.6	3
259	Synthesis of Magnetic Nanopowders of Iron Oxide: Magnetite and Maghemite. *Russian Journal of Inorganic Chemistry*, **2020**, 65, 426-430	1.5	7
258	Nanoceria: Metabolic interactions and delivery through PLGA-encapsulation. *Materials Science and Engineering C*, **2020**, 114, 111003	8.3	5
257	[redacted] **2020**, 22,		2
256	CeO2 nanoparticles as free radical regulators in biological systems. *Nanosystems: Physics, Chemistry, Mathematics*, **2020**, 11, 324-332	1.8	2
255	Aqueous Chemical Co-Precipitation of Iron Oxide Magnetic Nanoparticles for Use in Agricultural Technologies. *Letters in Applied NanoBioScience*, **2020**, 10, 2215-2239	1.9	2
254	Crystal and Supramolecular Structure of Bacterial Cellulose Hydrolyzed by Cellobiohydrolase from 3C: A Basis for Development of Biodegradable Wound Dressings. *Materials*, **2020**, 13,	3.5	6

253	Crystalline WO3 nanoparticles for No2 sensing. *Processing and Application of Ceramics*, **2020**, 14, 282-292	1.4	3
252	WO3 thermodynamic properties at 80□1256 K revisited. *Journal of Thermal Analysis and Calorimetry*, **2020**, 142, 1533-1543	4.1	5
251	PVP-stabilized tungsten oxide nanoparticles: pH sensitive anti-cancer platform with high cytotoxicity. *Materials Science and Engineering C*, **2020**, 108, 110494	8.3	11
250	Interplay of polymer matrix and nanosized redox dopant with regard to thermo-oxidative and pyrolytic stability: CeO2 nanoparticles in a milieu of aromatic polyimides. *Materials Today Communications*, **2020**, 22, 100803	2.5	2
249	SAXS Study of the Structure of Fibrous Ceric Hydrogen Phosphate Gels. *Journal of Surface Investigation*, **2020**, 14, S201-S206	0.5	1
248	Polyimide-Based Nanocomposites with Binary CeO/Nanocarbon Fillers: Conjointly Enhanced Thermal and Mechanical Properties. *Polymers*, **2020**, 12,	4.5	6
247	Electrorheological Properties of Polydimethylsiloxane/TiO-Based Composite Elastomers. *Polymers*, **2020**, 12,	4.5	1
246	Bulk and Surface Low Temperature Phase Transitions in the Mg-Alloy EZ33A. *Metals*, **2020**, 10, 1127	2.3	32
245	UV-Induced Photocatalytic Reduction of Methylene Blue Dye in the Presence of Photochromic Tungsten Oxide Sols. *Russian Journal of Inorganic Chemistry*, **2020**, 65, 1088-1092	1.5	4
244	Calcifying Bacteria Flexibility in Induction of CaCO Mineralization. *Life*, **2020**, 10,	3	6
243	Superhydrophobic and luminescent highly porous nanostructured alumina monoliths modified with tris(8-hydroxyquinolinato)aluminium. *Microporous and Mesoporous Materials*, **2020**, 293, 109804	5.3	3
242	High electrorheological effect in Bi1.8Fe1.2SbO7 suspensions. *Powder Technology*, **2020**, 360, 96-103	5.2	9
241	Electrochemical Properties of Carbon Aerogel Electrodes: Dependence on Synthesis Temperature. *Molecules*, **2019**, 24,	4.8	7
240	Size Effects in Nanocrystalline Thoria. *Journal of Physical Chemistry C*, **2019**, 123, 23167-23176	3.8	12
239	Investigating the Relationship between the Conditions of Polythiophene Electrosynthesis and the Pseudocapacitive Properties of Polythiophene-Based Electrodes. *Glass Physics and Chemistry*, **2019**, 45, 281-290	0.7	0
238	Highly reversible photochromism in composite WO3/nanocellulose films. *Cellulose*, **2019**, 26, 9095-9105	5.5	15
237	Surfactant-Switched Positive/Negative Electrorheological Effect in Tungsten Oxide Suspensions. *Molecules*, **2019**, 24,	4.8	4
236	Skeleton pseudomorphs of nanostructured silver for the surface-enhanced Raman spectroscopy. *Mendeleev Communications*, **2019**, 29, 395-397	1.9	1

235	Hierarchical structure of SERS substrates possessing the silver ring morphology. *Mendeleev Communications*, **2019**, 29, 269-272	1.9	1
234	Effect of the Support Nature on Stability of Nickel and Nickel–Cobalt Catalysts for Partial Oxidation and Dry Reforming of Methane to Synthesis Gas. *Petroleum Chemistry*, **2019**, 59, 385-393	1.1	7
233	Exfoliation of layered yttrium hydroxide by rapid expansion of supercritical suspensions. *Journal of Supercritical Fluids*, **2019**, 150, 40-48	4.2	8
232	Highly Crystalline WO3 Nanoparticles Are Nontoxic to Stem Cells and Cancer Cells. *Journal of Nanomaterials*, **2019**, 2019, 1-13	3.2	13
231	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	6
230	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	2.3	7
229	Fabrication of uniform monolayers of graphene oxide on solid surfaces. *Surface Innovations*, **2019**, 7, 210-218	1.9	1
228	Supramolecular Organogels Based on -Benzyl, -Acylbispidinols. *Nanomaterials*, **2019**, 9,	5.4	8
227	Fabrication of composite electrodes based on cobalt (II) hydroxide for microbiological fuel cells. *Journal of Sol-Gel Science and Technology*, **2019**, 92, 506-514	2.3	4
226	Selenic acid anodizing of aluminium for preparation of 1D photonic crystals. *Electrochemistry Communications*, **2019**, 100, 104-107	5.1	22
225	Selective hydrothermal synthesis of ammonium vanadates(V) and (IV,V). *Transition Metal Chemistry*, **2019**, 44, 25-30	2.1	4
224	The first inorganic mitogens: Cerium oxide and cerium fluoride nanoparticles stimulate planarian regeneration via neoblastic activation. *Materials Science and Engineering C*, **2019**, 104, 109924	8.3	10
223	First MnO2-based electrorheological fluids: high response at low filler concentration. *Rheologica Acta*, **2019**, 58, 719-728	2.3	7
222	IR radiation assisted preparation of KOH-activated polymer-derived carbon for methylene blue adsorption. *Journal of Environmental Chemical Engineering*, **2019**, 7, 103514	6.8	21
221	PVP-stabilized tungsten oxide nanoparticles inhibit proliferation of NCTC L929 mouse fibroblasts via induction of intracellular oxidative stress. *Nanosystems: Physics, Chemistry, Mathematics*, **2019**, 10, 92-101	1.8	2
220	Methods for Synthesis of Molecular Materials with Unique Physical Properties. *Vestnik RFFI*, **2019**, 82-100	0.1	
219	Photochromic and Photocatalytic Properties of Ultra-Small PVP-Stabilized WO Nanoparticles. *Molecules*, **2019**, 25,	4.8	5
218	Eu-Doped layered yttrium hydroxides sensitized by a series of benzenedicarboxylate and sulphobenzoate anions. *Dalton Transactions*, **2019**, 48, 6111-6122	4.3	10

217	Sorption of Radionuclides onto Cerium(IV) Hydrogen Phosphate Ce(PO4)(HPO4)0.5(H2O)0.5. *Radiochemistry*, **2019**, 61, 719-723	0.9	1
216	Morphometry Results of Formed Osteodefects When Using Nanocrystalline CeO in the Early Stages of Regeneration. *International Journal of Dentistry*, **2019**, 2019, 9416381	1.9	3
215	Towards the surface hydroxyl species in CeO nanoparticles. *Nanoscale*, **2019**, 11, 18142-18149	7.7	23
214	Laser-induced modification and formation of periodic surface structures (ripples) of amorphous GST225 phase change materials. *Optics and Laser Technology*, **2019**, 113, 87-94	4.2	13
213	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	2.3	4
212	Preparation of NaREF4 phases from the sodium nitrate melt. *Journal of Fluorine Chemistry*, **2019**, 218, 69-75	2.1	7
211	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
210	Understanding Self-Assembly of Porphyrin-Based SURMOFs: How Layered Minerals Can Be Useful. *Langmuir*, **2018**, 34, 5184-5192	4	14
209	Interfacial self-assembly of nanostructured silver octahedra for surface-enhanced Raman spectroscopy. *Functional Materials Letters*, **2018**, 11, 1850028	1.2	2
208	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
207	Aerogels with hybrid organo-inorganic 3D network structure based on polyfluorinated diacids. *Journal of Fluorine Chemistry*, **2018**, 207, 67-71	2.1	1
206	Partial oxidation of methane to synthesis gas: Novel catalysts based on neodymium calcium cobaltate nickelate complex oxides. *Petroleum Chemistry*, **2018**, 58, 43-47	1.1	3
205	Methyl trifluoropyruvate a new solvent for the production of fluorinated organic resorcinol formaldehyde aerogels. *Mendeleev Communications*, **2018**, 28, 102-104	1.9	3
204	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
203	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	5.7	17
202	Luminescent alumina-based aerogels modified with tris(8-hydroxyquinolinato)aluminum. *Journal of Sol-Gel Science and Technology*, **2018**, 86, 400-409	2.3	11
201	Tin Dioxide-Based Superacid Aerogels Produced Using Propylene Oxide. *Russian Journal of Inorganic Chemistry*, **2018**, 63, 303-307	1.5	4
200	A facile approach to fabricating ultrathin layers of reduced graphene oxide on planar solids. *Carbon*, **2018**, 134, 62-70	10.4	14

199	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	4.3	6
198	Synthesis, crystal structure and optical properties of 1,1'-(1,n-alkanediyl)bis(3-methylimidazolium) halobismuthates. *Journal of Molecular Structure*, **2018**, 1151, 186-190	3.4	5
197	The Melt of Sodium Nitrate as a Medium for the Synthesis of Fluorides. *Inorganics*, **2018**, 6, 38	2.9	19
196	Interfacial self-assembly of functional bilayer templates comprising porphyrin arrays and graphene oxide. *Journal of Colloid and Interface Science*, **2018**, 530, 521-531	9.3	10
195	Hydrothermal Microwave Synthesis of MnO2 in the Presence of Melamine: The Role of Temperature and pH. *Russian Journal of Inorganic Chemistry*, **2018**, 63, 708-713	1.5	3
194	Synthesis Gas Production by Partial Oxidation of Methane and Dry Reforming of Methane in the Presence of Novel Ni□Co/MFI Catalysts. *Petroleum Chemistry*, **2018**, 58, 203-213	1.1	7
193	Hydroxyapatite/Anatase Photocatalytic Core□Shell Composite Prepared by Sol-Gel Processing. *Crystallography Reports*, **2018**, 63, 254-260	0.6	5
192	Synthesis and Luminescence Characteristics of LaF3:Yb:Er Powders Produced by Coprecipitation from Aqueous Solutions. *Russian Journal of Inorganic Chemistry*, **2018**, 63, 293-302	1.5	5
191	Phase Equilibria in LiYF4□iLuF4 System and Heat Conductivity of LiY1□xLu x F4 Single Crystals. *Russian Journal of Inorganic Chemistry*, **2018**, 63, 433-438	1.5	6
190	Structural Analysis of Aluminum Oxyhydroxide Aerogel by Small Angle X-Ray Scattering. *Journal of Surface Investigation*, **2018**, 12, 296-305	0.5	7
189	1D-Bromobismuthates of Dipyridinoalkane Derivatives. *Russian Journal of Coordination Chemistry/Koordinatsionnaya Khimiya*, **2018**, 44, 373-379	1.6	20
188	Nanofibers of Semiconductor Oxides as Sensitive Materials for Detection of Gaseous Products Formed in Low-Temperature Pyrolysis of Polyvinyl Chloride. *Russian Journal of Applied Chemistry*, **2018**, 91, 447-453	0.8	3
187	Synthesis of NH4TiOF3 Crystals in the Presence of Polyoxyethylene Ethers. *Russian Journal of Inorganic Chemistry*, **2018**, 63, 567-573	1.5	3
186	Influence of thermal treatment of nanometer-sized titanate and barium orthotitanate precursors on the electrorheological effect. *Nanosystems: Physics, Chemistry, Mathematics*, **2018**, 9, 746-753	1.8	3
185	SiO□Based Aerogels Modified by Covalently Bonded Aromatic Acids as Potential Drug Delivery Systems. *Biomedical Chemistry Research and Methods*, **2018**, 1, e00037	0.4	
184	THE RESULTS OF SCANNING ELECTRONIC MICROSCOPY OF ULTRA-THIN ENDOKERATOTRANSPLANT FORMED BY FEMTOSECOND LASER ON PART OF ENDOTHELIUM. *Rossiiskii Meditsinskii Zhurnal: Organ Ministerstva Zdravookhraneniia RSFSR*, **2018**, 24, 19-24	0.1	
183	MICROWAVE-HYDROTHERMAL HEXAMETHYLENETETRAMINE-MEDIATED SYNTHESIS OF NANOCRYSTALLINE MnO2. *Fine Chemical Technologies*, **2018**, 13, 56-63	0.5	
182	NONINVASIVE ESTIMATION OF THE LOCAL TEMPERATURE OF BIOTISSUES HEATING UNDER THE ACTION OF LASER IRRADIATION FROM THE LUMINESCENCE SPECTRA OF Nd3+ IONS. *Biomedical Photonics*, **2018**, 7, 25-36	0.6	1

181	An approach for highly transparent titania aerogels preparation. *Materials Letters*, **2018**, 215, 19-22	3.3	6
180	Photo-induced toxicity of tungsten oxide photochromic nanoparticles. *Journal of Photochemistry and Photobiology B: Biology*, **2018**, 178, 395-403	6.7	20
179	Synthesis of Silver Nanoparticles with the use of Herbaceous Plant Extracts and Effect of Nanoparticles on Bacteria. *Applied Biochemistry and Microbiology*, **2018**, 54, 816-823	1.1	3
178	A New Method for Removing and Binding Th(IV) and Other Radionuclides by In Situ Formation of a Sorbent Based on Fibrous Cerium(IV) Hydrogen Phosphate in Liquid Media. *Radiochemistry*, **2018**, 60, 613-617	0.9	3
177	The relationship between the crystal structure and optical properties for isomeric aminopyridinium iodobismuthates. *Mendeleev Communications*, **2018**, 28, 490-492	1.9	12
176	Formation of hierarchically-ordered nanoporous silver foam and its electrocatalytic properties in reductive dehalogenation of organic compounds. *New Journal of Chemistry*, **2018**, 42, 17499-17512	3.6	2
175	Effects of Ag Additive in Low Temperature CO Detection with In□□Based Gas Sensors. *Nanomaterials*, **2018**, 8,	5.4	11
174	Antimicrobial Activity of Silver Nanoparticles in a Carboxymethyl Chitin Matrix Obtained by the Microwave Hydrothermal Method. *Applied Biochemistry and Microbiology*, **2018**, 54, 496-500	1.1	4
173	Photosensitive Organic-Inorganic Hybrid Materials for Room Temperature Gas Sensor Applications. *Nanomaterials*, **2018**, 8,	5.4	15
172	Catalytic Materials Based on Hydrotalcite-Like Aluminum, Magnesium, Nickel, and Cobalt Hydroxides for Partial Oxidation and Dry Reforming of Methane to Synthesis Gas. *Petroleum Chemistry*, **2018**, 58, 418-426	1.1	7
171	Experimental Study of the Effects of Nanodispersed Ceria on Wound Repair. *Bulletin of Experimental Biology and Medicine*, **2017**, 162, 395-399	0.8	7
170	Synthesis of manganese dioxide by homogeneous hydrolysis in the presence of melamine. *Russian Journal of Inorganic Chemistry*, **2017**, 62, 139-149	1.5	4
169	closo-Dodecaborate Intercalated Yttrium Hydroxide as a First Example of Boron Cluster Anion-Containing Layered Inorganic Substances. *Inorganic Chemistry*, **2017**, 56, 3421-3428	5.1	16
168	Facile method for fabrication of surfactant-free concentrated CeO2sols. *Materials Research Express*, **2017**, 4, 055008	1.7	4
167	Unexpected Effects of Activator Molecules' Polarity on the Electroreological Activity of Titanium Dioxide Nanopowders. *Journal of Physical Chemistry B*, **2017**, 121, 6732-6738	3.4	14
166	Relation of Crystallinity and Fluorescent Properties of LaF3:Nd3+ Nanoparticles Synthesized with Different Water-Based Techniques. *ChemistrySelect*, **2017**, 2, 4874-4881	1.8	15
165	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	1.3	4
164	New insights into polymer mediated formation of anatase mesocrystals. *CrystEngComm*, **2017**, 19, 3281-3287	3.3	9

163	Propylene oxide as a new reagent for mixed SiO 2 -based aerogels preparation. *Journal of Sol-Gel Science and Technology*, **2017**, 84, 377-381	2.3	3
162	Structural modification of titanium surface by octacalcium phosphate via Pulsed Laser Deposition and chemical treatment. *Bioactive Materials*, **2017**, 2, 101-107	16.7	11
161	New synthesis route for obtaining carbon-free hexagonal RE manganites via novel simple individual precursors. The interplay between magnetic and thermodynamic properties of hexagonal RMnO3 (R = Ho□b, Y). *Polyhedron*, **2017**, 122, 184-193	2.7	5
160	Layer-by-layer assembly of porphyrin-based metal□rganic frameworks on solids decorated with graphene oxide. *New Journal of Chemistry*, **2017**, 41, 948-957	3.6	23
159	Selective precipitation of rare earth orthophosphates with hydrogen peroxide from phosphoric acid solutions. *Russian Journal of Inorganic Chemistry*, **2017**, 62, 1141-1146	1.5	2
158	Local optical spectroscopy of opaline photonic crystal films. *Crystallography Reports*, **2017**, 62, 783-786	0.6	3
157	Preparation and properties of methylcellulose/nanocellulose/□2 :□olymer-inorganic composite films for two-micron radiation visualizers. *Journal of Fluorine Chemistry*, **2017**, 202, 9-18	2.1	13
156	Morphological structure of Gluconacetobacter xylinus cellulose and cellulose-based organic-inorganic composite materials. *Journal of Physics: Conference Series*, **2017**, 848, 012017	0.3	5
155	Comparative analysis of the physicochemical characteristics of SiO2 aerogels prepared by drying under subcritical and supercritical conditions. *Inorganic Materials*, **2017**, 53, 1270-1278	0.9	8
154	Hydroconversion of rapeseed oil to hydrocarbons in the presence of MFI/MCM-41 micro□esoporous materials synthesized by the hydrothermal microwave method. *Petroleum Chemistry*, **2017**, 57, 678-685	1.1	3
153	Properties of electrorheological fluids based on nanocrystalline cerium dioxide. *Russian Journal of Inorganic Chemistry*, **2017**, 62, 625-632	1.5	4
152	Investigation of the Crystallization Kinetics in the Phase Change Memory Materials of Ge□bTe System. *Springer Proceedings in Energy*, **2017**, 259-265	0.2	
151	Facile synthesis of fluorinated resorcinol-formaldehyde aerogels. *Journal of Fluorine Chemistry*, **2017**, 193, 1-7	2.1	13
150	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	5.3	26
149	Chiral lactate-modified silica aerogels. *Microporous and Mesoporous Materials*, **2017**, 237, 127-131	5.3	6
148	Synthesis of ZnO Thin Films Doped with Ga and In: Determination of Their Composition through X-Ray Spectroscopy and Inductively Coupled Plasma Mass Spectrometry. *Inorganic Materials*, **2017**, 53, 1458-1462	0.9	
147	New catalysts of dry reforming of methane into synthesis gas. *Doklady Physical Chemistry*, **2017**, 477, 209-211	0.8	4
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