

Alexander V Agafonov

List of Publications by Year in descending order

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102
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430442

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102
all docs

102
docs citations

102
times ranked

1588
citing authors

#	ARTICLE	IF	CITATIONS
1	Structure, physicochemical properties, and adsorption performance of the ethyl cellulose/bentonite composite films. <i>Cellulose</i> , 2022, 29, 3947-3961.	2.4	8
2	Mo-doped TiO_2 using plasma in contact with liquids: advantages and limitations. <i>Journal of Chemical Technology and Biotechnology</i> , 2021, 96, 1125-1131.	1.6	8
3	Enhancing the Thermal Stability of Ionogels: Synthesis and Properties of Triple Ionic Liquid/Halloysite/MCC Ionogels. <i>Molecules</i> , 2021, 26, 6198.	1.7	3
4	Immobilization of Chitosan Onto Polypropylene Foil via Air/Solution Atmospheric Pressure Plasma Afterglow Treatment. <i>Plasma Chemistry and Plasma Processing</i> , 2020, 40, 207-220.	1.1	12
5	Synthesis and Photocatalytic Activity of WO_3 Nanoparticles Prepared by Underwater Impulse Discharge. <i>Plasma Chemistry and Plasma Processing</i> , 2020, 40, 571-587.	1.1	28
6	Synthesis, structure and thermal properties of montmorillonite/ionic liquid ionogels. <i>RSC Advances</i> , 2020, 10, 34885-34894.	1.7	10
7	Polydimethylsiloxane Elastomers Filled with Rod-Like MnO_2 Nanoparticles: An Interplay of Structure and Electrorheological Performance. <i>Polymers</i> , 2020, 12, 2810.	2.0	1
8	Electrorheological Properties of Polydimethylsiloxane/ TiO_2 -Based Composite Elastomers. <i>Polymers</i> , 2020, 12, 2137.	2.0	3
9	Dual-Mode Solution Plasma Processing for the Production of Chitosan/Ag Composites with the Antibacterial Effect. <i>Materials</i> , 2020, 13, 4821.	1.3	13
10	Plasma-assisted synthesis and deposition of molybdenum oxide nanoparticles on polyethylene terephthalate for photocatalytic degradation of rhodamine B. <i>Plasma Processes and Polymers</i> , 2020, 17, 2000012.	1.6	10
11	Doped TiO_2 : the effect of doping elements on photocatalytic activity. <i>Materials Advances</i> , 2020, 1, 1193-1201.	2.6	151
12	First MnO_2 -based electrorheological fluids: high response at low filler concentration. <i>Rheologica Acta</i> , 2019, 58, 719-728.	1.1	11
13	Composite nanomaterials based on 1-butyl-3-methylimidazolium dicyanamide and clays. <i>Journal of Materials Research and Technology</i> , 2019, 8, 4387-4398.	2.6	19
14	Electrorheological Properties of Bi_2O_3 and $\text{Bi}_2\text{O}_2\text{CO}_3$. <i>Inorganic Materials</i> , 2019, 55, 344-354.	0.2	3
15	Template-Free Synthesis and Properties of Mesoporous Calcium Titanate. <i>Protection of Metals and Physical Chemistry of Surfaces</i> , 2019, 55, 667-670.	0.3	6
16	Structural and Thermal Properties of Montmorillonite/Ionic Liquid Composites. <i>Materials</i> , 2019, 12, 2578.	1.3	30
17	Highly reversible photochromism in composite WO_3 /nanocellulose films. <i>Cellulose</i> , 2019, 26, 9095-9105.	2.4	29
18	Surfactant-Switched Positive/Negative Electrorheological Effect in Tungsten Oxide Suspensions. <i>Molecules</i> , 2019, 24, 3348.	1.7	6

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19	Formation of mesoporous structure in Al ₂ O ₃ •NaAlO ₂ -based materials produced by template synthesis. <i>Journal of Sol-Gel Science and Technology</i> , 2019, 92, 293-303.	1.1	3
20	Bentonite/Magnetite Composite for Removal of Nitrofurazone. <i>Clays and Clay Minerals</i> , 2019, 67, 471-480.	0.6	12
21	Bentonite filler effect on structure and properties of polystyrene-based composites. <i>Iranian Polymer Journal (English Edition)</i> , 2019, 28, 123-133.	1.3	9
22	Deposition of Silver Nanostructures on Polymer Films by Glow Discharge. <i>Plasma Chemistry and Plasma Processing</i> , 2019, 39, 311-323.	1.1	5
23	Effect of the bentonite filler on structure and properties of composites based on hydroxyethyl cellulose. <i>Arabian Journal of Chemistry</i> , 2019, 12, 398-404.	2.3	27
24	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
25	Preparation and Properties of Organic-Inorganic Composites Based on Hydroxyethyl Cellulose. <i>Fibre Chemistry</i> , 2018, 50, 349-353.	0.0	0
26	Sorption of Methylene Blue on Polystyrene/Bentonite Film Composites. <i>Protection of Metals and Physical Chemistry of Surfaces</i> , 2018, 54, 763-768.	0.3	0
27	Thermal behaviour of polystyrene/silica composites. <i>Philosophical Magazine Letters</i> , 2018, 98, 107-117.	0.5	0
28	Using Polymer-Colloid Complexes for Obtaining Mesoporous Aluminium Oxide by the Template Sol-Gel Method. <i>Russian Journal of Inorganic Chemistry</i> , 2018, 63, 1125-1130.	0.3	5
29	Dielectric Properties of Multilayer Optically Transparent TiO ₂ -Nanosilver Coating on Polyester Substrate Obtained by Solvent Method. <i>Inorganic Materials: Applied Research</i> , 2018, 9, 973-977.	0.1	0
30	Kinetics of Methylene Blue Sorption on Polystyrene/Bentonite/Magnetite-Film Composites. <i>Protection of Metals and Physical Chemistry of Surfaces</i> , 2018, 54, 569-573.	0.3	0
31	Hybrid Drug Delivery Patches Based on Spherical Cellulose Nanocrystals and Colloid Titania—Synthesis and Antibacterial Properties. <i>Nanomaterials</i> , 2018, 8, 228.	1.9	52
32	Photocatalytic and adsorption properties of TiO ₂ -pillared montmorillonite obtained by hydrothermally activated intercalation of titanium polyhydroxo complexes. <i>Beilstein Journal of Nanotechnology</i> , 2018, 9, 364-378.	1.5	33
33	Photoelectrochemical properties of thin films on titanium obtained by thermal, electrochemical, or sol-gel method. <i>Journal of Solid State Electrochemistry</i> , 2017, 21, 1777-1784.	1.2	1
34	The dielectric properties and flow of electrorheological fluids based on polymer-coated nanodispersed barium tetraacetate titanate particles upon a dynamic shear in electric fields. <i>Colloid Journal</i> , 2017, 79, 204-211.	0.5	8
35	Photocatalytic Activity of Biomimetic TiO ₂ Fibers Obtained by Ultrasound-Assisted Impregnation of Cellulose with Titanium Polyhydroxocomplexes. <i>ACS Sustainable Chemistry and Engineering</i> , 2017, 5, 5148-5155.	3.2	17
36	Hydroxyethyl cellulose/bentonite/magnetite hybrid materials: structure, physicochemical properties, and antifungal activity. <i>Cellulose</i> , 2017, 24, 1825-1836.	2.4	20

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37	Solution process-based technologies: A new way for textile nanofunctionalization. Russian Journal of General Chemistry, 2017, 87, 1412-1417.	0.3	1
38	Properties of electrorheological fluids based on nanocrystalline cerium dioxide. Russian Journal of Inorganic Chemistry, 2017, 62, 625-632.	0.3	7
39	Modification of polyester fabrics with nanosized titanium dioxide to impart photoactivity. Inorganic Materials: Applied Research, 2017, 8, 696-703.	0.1	7
40	Effect of the structure of Fe-doped titania-based nanocomposites on the photocatalytic activity of polyester fabrics modified by them. Inorganic Materials, 2017, 53, 1336-1342.	0.2	2
41	Kinetics of Thermal Degradation of Polystyrene/Silica Film Composites. Protection of Metals and Physical Chemistry of Surfaces, 2017, 53, 1070-1074.	0.3	2
42	Effect of the Organobentonite Filler on Structure and Properties of Composites Based on Hydroxyethyl Cellulose. Journal of Chemistry, 2017, 2017, 1-11.	0.9	9
43	Nanoparticle Self-Assembly Mechanisms in the Colloidal Synthesis of Iron Titanate Nanocomposite Photocatalysts for Environmental Applications. ACS Sustainable Chemistry and Engineering, 2016, 4, 2814-2821.	3.2	32
44	Summary of the 3rd sol-gel conference of the CIS countries. Journal of Sol-Gel Science and Technology, 2016, 80, 233-238.	1.1	0
45	Effect of polyoxomolybdate nanocluster doping on the dielectric characteristics of polyvinyl alcohol nanocomposite films. Russian Journal of Inorganic Chemistry, 2016, 61, 477-481.	0.3	6
46	Micro-mesoporous anatase TiO ₂ nanorods with high specific surface area possessing enhanced adsorption ability and photocatalytic activity. Microporous and Mesoporous Materials, 2016, 235, 185-194.	2.2	38
47	Growth of optically active multilayer metal oxide films on a plastic substrate. Inorganic Materials, 2016, 52, 962-967.	0.2	2
48	Synthesis, structure, and properties of a bentonite-magnetite composite. Protection of Metals and Physical Chemistry of Surfaces, 2016, 52, 819-824.	0.3	11
49	Nanocrystalline ceria: a novel material for electrorheological fluids. RSC Advances, 2016, 6, 88851-88858.	1.7	24
50	Synthesis of nanostructured iron titanates by soft chemistry methods. Russian Journal of Inorganic Chemistry, 2016, 61, 560-566.	0.3	6
51	Ni Self-Organized Balls as a Promising Energy Storage Material. Journal of Physical Chemistry C, 2016, 120, 16453-16458.	1.5	3
52	Controlling micro- and nanostructure and activity of the NaAlO ₂ biodiesel transesterification catalyst by its dissolution in a mesoporous γ -Al ₂ O ₃ -matrix. Journal of Sol-Gel Science and Technology, 2015, 76, 90-97.	1.1	11
53	Zirconium(IV) and hafnium(IV) coordination polymers with a tetra-acetyl-ethane (Bisacac) ligand: Synthesis, structure elucidation and gas sorption behavior. Polyhedron, 2015, 89, 297-303.	1.0	6
54	Cellulose nanofiber-titania nanocomposites as potential drug delivery systems for dermal applications. Journal of Materials Chemistry B, 2015, 3, 1688-1698.	2.9	94

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55	Magneto-Optical Modulation on Colloid Cu ²⁺ /Ni Nanocomposite. <i>Journal of Physical Chemistry C</i> , 2015, 119, 1500-1505.	1.5	5
56	The effect of silicon dioxide concentration on thermodynamic properties of polystyrene-based composites. <i>Protection of Metals and Physical Chemistry of Surfaces</i> , 2015, 51, 253-256.	0.3	6
57	Photocatalytic activity of titania nanopowders prepared by a sol-gel process at various pHs. <i>Russian Journal of Inorganic Chemistry</i> , 2015, 60, 906-912.	0.3	9
58	Antibacterial and photochemical properties of cellulose nanofiber/titania nanocomposites loaded with two different types of antibiotic medicines. <i>Journal of Materials Chemistry B</i> , 2015, 3, 7125-7134.	2.9	53
59	Low-temperature approach to forming high-porous Fe(III)-TiO ₂ nanoparticles possessing high photoactivity. <i>Nanotechnologies in Russia</i> , 2014, 9, 15-20.	0.7	5
60	Conductive sol-gel films. <i>Journal of Materials Chemistry C</i> , 2014, 2, 3914.	2.7	13
61	Comparative parameters of the electrorheological effect in suspensions of nanosized barium titanate acetates and titanate oxalates in PMS-20 silicon oil. <i>Protection of Metals and Physical Chemistry of Surfaces</i> , 2014, 50, 484-487.	0.3	2
62	Structure and properties of hybrid composites based on hydroxyethyl cellulose and laminar aluminosilicate. <i>Protection of Metals and Physical Chemistry of Surfaces</i> , 2014, 50, 300-303.	0.3	1
63	Comparative study of adsorption capacity of mesoporous silica materials for molsidomine: Effects of functionalizing and solution pH. <i>Materials Science and Engineering C</i> , 2014, 40, 164-171.	3.8	10
64	The sol-gel synthesis of cotton/TiO ₂ composites and their antibacterial properties. <i>Surface and Coatings Technology</i> , 2014, 253, 171-179.	2.2	70
65	Synthesis of doped and undoped γ -alumina spherical particles by a new sol-gel hybrid process and their application for methanol dehydration. <i>Journal of Sol-Gel Science and Technology</i> , 2013, 66, 145-154.	1.1	3
66	Dielectric parameters of polystyrene films modified with fullerenes. <i>Russian Journal of Applied Chemistry</i> , 2013, 86, 564-567.	0.1	3
67	A simple preparation of highly photoactive Fe(III)-doped titania nanocrystals by annealing-free approach. <i>Journal of Alloys and Compounds</i> , 2013, 581, 675-678.	2.8	9
68	The influence of silver particles of different morphologies on the photoactivity of coatings in the Ag-TiO ₂ system. <i>Nanotechnologies in Russia</i> , 2013, 8, 616-620.	0.7	2
69	Sol-gel synthesis, characterization and catalytic activity of γ -alumina with bimodal mesopore distribution. <i>Journal of Sol-Gel Science and Technology</i> , 2013, 68, 155-161.	1.1	4
70	A new approach to apply crystalline titania hydrosols onto a polyester cloth. <i>Mendeleev Communications</i> , 2013, 23, 286-288.	0.6	6
71	New approach to obtaining nanosized pseudobrookite crystals. <i>Nanotechnologies in Russia</i> , 2012, 7, 452-456.	0.7	2
72	High-Induced Photo-emf and Photocatalytic Properties of Nanostructured TiO ₂ -Based Powders and Films Obtained by the Sol-Gel Template Synthesis. <i>Journal of Inorganic and Organometallic Polymers and Materials</i> , 2012, 22, 1034-1040.	1.9	1

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73	Low-Temperature Sol-Gel Synthesis, Spectroscopic Properties and Conductivity of the Thin Films of TiO ₂ -CuO Nanoparticles. Mendeleev Communications, 2012, 22, 307-309.	0.6	1
74	Low-temperature sol-gel synthesis of crystalline CoTiO ₃ coatings without annealing. Journal of Alloys and Compounds, 2012, 543, 172-175.	2.8	15
75	Development of the low-temperature sol-gel synthesis of TiO ₂ to provide self-cleaning effect on the textile materials. Nanotechnologies in Russia, 2012, 7, 604-614.	0.7	18
76	Soft-chemistry synthesis of highly active TiO ₂ -CuO heterostructures having high photoactivity and magnetic properties. Nanotechnologies in Russia, 2012, 7, 599-603.	0.7	3
77	Low-temperature sol-gel synthesis photochromic Cu/TiO ₂ films. Journal of Alloys and Compounds, 2012, 515, 1-3.	2.8	20
78	Low-temperature sol-gel synthesis of nanosized pseudobrookite crystals without heat treatment. Journal of Alloys and Compounds, 2012, 535, 102-107.	2.8	14
79	Sol-gel synthesis of photochromic films via silver-titania nanocomposites prepared without heat treatment. Mendeleev Communications, 2012, 22, 27-28.	0.6	13
80	The influence of dielectric characteristics of suspensions of nanosize barium, barium-strontium, and barium-calcium acetate titanyles in polydimethyl siloxane on the electrorheological effect. Protection of Metals and Physical Chemistry of Surfaces, 2012, 48, 75-79.	0.3	2
81	Synthesis of mesoporous γ -alumina by sol-gel process and its characterization and application for sorption of Pu(IV). Journal of Sol-Gel Science and Technology, 2012, 61, 192-196.	1.1	8
82	Studies on the effect of the stabilizer activity on the structure and properties of titania-based hybrid films. Russian Chemical Bulletin, 2011, 60, 1862-1870.	0.4	2
83	Electrorheological behavior of the hybrid material prepared by cohydrolysis of titanium(IV) isopropoxide with minor additions of a liquid crystal. Russian Journal of Applied Chemistry, 2011, 84, 951-956.	0.1	0
84	Liquid-phase synthesis of barium acetatotitanyl and barium oxalatotitanyl as intermediates for preparing nanosized barium titanate. Russian Journal of Inorganic Chemistry, 2011, 56, 1025-1028.	0.3	5
85	Synthesis of organized mesoporous γ -alumina templated with polymer-colloidal complex. Journal of Sol-Gel Science and Technology, 2011, 60, 6-10.	1.1	8
86	Effect of nature of templates on formation mechanism of aluminum oxide mesoporous structure. Colloid Journal, 2010, 72, 163-167.	0.5	1
87	Electrorheological fluids. Russian Journal of General Chemistry, 2010, 80, 567-575.	0.3	14
88	The effect exerted by the type of the solvent and precursor in sol-gel preparation of titanium dioxide on its electrorheological activity. Russian Journal of Applied Chemistry, 2010, 83, 14-17.	0.1	3
89	Study of surfaces of TiO ₂ -based nanostructured films obtained under action of various templates. Protection of Metals and Physical Chemistry of Surfaces, 2010, 46, 555-558.	0.3	2
90	Sol-gel synthesis of nanostructured materials based on aluminum oxide with preset texture properties. Protection of Metals and Physical Chemistry of Surfaces, 2010, 46, 582-586.	0.3	4

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91	Physicochemical properties of hybrid silicon dioxide-polyethylene glycol organo-inorganic materials as potential antioxidants. <i>Protection of Metals and Physical Chemistry of Surfaces</i> , 2010, 46, 662-665.	0.3	1
92	Superhydrophobic effect of hybrid organo-inorganic materials. <i>Journal of Sol-Gel Science and Technology</i> , 2010, 53, 312-315.	1.1	11
93	Sol-gel synthesis, characterization and catalytic activity of mesoporous γ -alumina prepared from boehmite sol by different methods. <i>Journal of Sol-Gel Science and Technology</i> , 2010, 56, 333-339.	1.1	30
94	Application of polyethyleneimine to obtain a mesoporous $\text{CuO}/\text{Al}_2\text{O}_3$ composite. <i>Mendeleev Communications</i> , 2009, 19, 222-223.	0.6	9
95	Sol-gel synthesis of titanium dioxide-based films possessing highly ordered channel structures. <i>Mendeleev Communications</i> , 2009, 19, 340-341.	0.6	6
96	Sol-gel synthesis, preparation and characterization of photoactive TiO_2 with ultrasound treatment. <i>Journal of Sol-Gel Science and Technology</i> , 2009, 49, 180-185.	1.1	30
97	Electrorheology of suspensions of mesostructured and mesoporous silica in poly(dimethylsiloxane). <i>Colloid Journal</i> , 2008, 70, 535-540.	0.5	6
98	Catalytically active materials based on titanium dioxide: Ways of enhancement of photocatalytic activity. <i>High Energy Chemistry</i> , 2008, 42, 578-580.	0.2	18
99	Sol-gel synthesis of titanium dioxide and titanium dioxide-hydroxypropyl cellulose hybrid material and electrorheological characteristics of their dispersions in poly(dimethylsiloxane). <i>Colloid Journal</i> , 2007, 69, 620-626.	0.5	8
100	Thermodynamics of the effects of substituent, degree of substitution, and pH on complex formation of hydroxypropyl- β - and hydroxypropyl- γ -cyclodextrins with ascorbic acid. <i>Russian Chemical Bulletin</i> , 2005, 54, 1883-1886.	0.4	5
101	Volume Changes on Complex Formation of 18-Crown-6 with Amino Acids in Aqueous Solutions. <i>Russian Journal of General Chemistry</i> , 2003, 73, 312-314.	0.3	5
102	Thermodynamics of intermolecular interactions between saccharides and 18-crown-6 in water. <i>Mendeleev Communications</i> , 2002, 12, 80.	0.6	1