# Alexander V Agafonov

List of Publications by Year
in descending order

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| 102 | 1,285 | 430442 | 433756 |
|---|---|---|---|
| papers | citations | 18 h-index | 31 g-index |

| 102 | 102 | 102 | 1588 |
|---|---|---|---|
| all docs | docs citations | times ranked | citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Doped TiO<sub>2</sub>: the effect of doping elements on photocatalytic activity. Materials Advances, 2020, 1, 1193-1201. | 2.6 | 151 |
| 2 | Cellulose nanofiberâ€“titania nanocomposites as potential drug delivery systems for dermal applications. Journal of Materials Chemistry B, 2015, 3, 1688-1698. | 2.9 | 94 |
| 3 | The solâ€“gel synthesis of cotton/TiO2 composites and their antibacterial properties. Surface and Coatings Technology, 2014, 253, 171-179. | 2.2 | 70 |
| 4 | Antibacterial and photochemical properties of cellulose nanofiberâ€“titania nanocomposites loaded with two different types of antibiotic medicines. Journal of Materials Chemistry B, 2015, 3, 7125-7134. | 2.9 | 53 |
| 5 | Hybrid Drug Delivery Patches Based on Spherical Cellulose Nanocrystals and Colloid Titaniaâ€”Synthesis and Antibacterial Properties. Nanomaterials, 2018, 8, 228. | 1.9 | 52 |
| 6 | Micro-mesoporous anatase TiO2 nanorods with high specific surface area possessing enhanced adsorption ability and photocatalytic activity. Microporous and Mesoporous Materials, 2016, 235, 185-194. | 2.2 | 38 |
| 7 | Photocatalytic and adsorption properties of TiO<sub>2</sub>-pillared montmorillonite obtained by hydrothermally activated intercalation of titanium polyhydroxo complexes. Beilstein Journal of Nanotechnology, 2018, 9, 364-378. | 1.5 | 33 |
| 8 | 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 |
| 9 | Solâ€“gel synthesis, preparation and characterization of photoactive TIO2 with ultrasound treatment. Journal of Sol-Gel Science and Technology, 2009, 49, 180-185. | 1.1 | 30 |
| 10 | Solâ€“gel synthesis, characterization and catalytic activity of mesoporous Î³-alumina prepared from boehmite sol by different methods. Journal of Sol-Gel Science and Technology, 2010, 56, 333-339. | 1.1 | 30 |
| 11 | Structural and Thermal Properties of Montmorillonite/Ionic Liquid Composites. Materials, 2019, 12, 2578. | 1.3 | 30 |
| 12 | Highly reversible photochromism in composite WO3/nanocellulose films. Cellulose, 2019, 26, 9095-9105. | 2.4 | 29 |
| 13 | Synthesis and Photocatalytic Activity of WO3 Nanoparticles Prepared by Underwater Impulse Discharge. Plasma Chemistry and Plasma Processing, 2020, 40, 571-587. | 1.1 | 28 |
| 14 | Effect of the bentonite filler on structure and properties of composites based on hydroxyethyl cellulose. Arabian Journal of Chemistry, 2019, 12, 398-404. | 2.3 | 27 |
| 15 | Nanocrystalline ceria: a novel material for electrorheological fluids. RSC Advances, 2016, 6, 88851-88858. | 1.7 | 24 |
| 16 | Low-temperature solâ€“gel synthesis photochromic Cu/TiO2 films. Journal of Alloys and Compounds, 2012, 515, 1-3. | 2.8 | 20 |
| 17 | Hydroxyethyl cellulose/bentonite/magnetite hybrid materials: structure, physicochemical properties, and antifungal activity. Cellulose, 2017, 24, 1825-1836. | 2.4 | 20 |
| 18 | Composite nanomaterials based on 1-butyl-3-methylimidazolium dicianamide and clays. Journal of Materials Research and Technology, 2019, 8, 4387-4398. | 2.6 | 19 |

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|---|---|---|---|
| 19 | Catalytically active materials based on titanium dioxide: Ways of enhancement of photocatalytic activity. High Energy Chemistry, 2008, 42, 578-580. | 0.2 | 18 |
| 20 | Development of the low-temperature sol-gel synthesis of TiO2 to provide self-cleaning effect on the textile materials. Nanotechnologies in Russia, 2012, 7, 604-614. | 0.7 | 18 |
| 21 | Photocatalytic Activity of Biomorphic TiO<sub>2</sub> Fibers Obtained by Ultrasound-Assisted Impregnation of Cellulose with Titanium Polyhydroxocomplexes. ACS Sustainable Chemistry and Engineering, 2017, 5, 5148-5155. | 3.2 | 17 |
| 22 | Low-temperature solâ€“gel synthesis of crystalline CoTiO3 coatings without annealing. Journal of Alloys and Compounds, 2012, 543, 172-175. | 2.8 | 15 |
| 23 | Electrorheological fluids. Russian Journal of General Chemistry, 2010, 80, 567-575. | 0.3 | 14 |
| 24 | Low-temperature solâ€“gel synthesis of nanosized pseudobrookite crystals without heat treatment. Journal of Alloys and Compounds, 2012, 535, 102-107. | 2.8 | 14 |
| 25 | Comparative study of the electrorheological effect in suspensions of needle-like and isotropic cerium dioxide nanoparticles. Rheologica Acta, 2018, 57, 307-315. | 1.1 | 14 |
| 26 | Sol-gel synthesis of photochromic films via silverâ€“titania nanocomposites prepared without heat treatment. Mendeleev Communications, 2012, 22, 27-28. | 0.6 | 13 |
| 27 | Conductive solâ€“gel films. Journal of Materials Chemistry C, 2014, 2, 3914. | 2.7 | 13 |
| 28 | Dual-Mode Solution Plasma Processing for the Production of Chitosan/Ag Composites with the Antibacterial Effect. Materials, 2020, 13, 4821. | 1.3 | 13 |
| 29 | Bentonite/Magnetite Composite for Removal of Nitrofurazone. Clays and Clay Minerals, 2019, 67, 471-480. | 0.6 | 12 |
| 30 | Immobilization of Chitosan Onto Polypropylene Foil via Air/Solution Atmospheric Pressure Plasma Afterglow Treatment. Plasma Chemistry and Plasma Processing, 2020, 40, 207-220. | 1.1 | 12 |
| 31 | Superhydrofobic effect of hybrid organo-inorganic materials. Journal of Sol-Gel Science and Technology, 2010, 53, 312-315. | 1.1 | 11 |
| 32 | Controlling micro- and nanostructure and activity of the NaAlO2 biodiesel transesterification catalyst by its dissolution in a mesoporous Î³-Al2O3-matrix. Journal of Sol-Gel Science and Technology, 2015, 76, 90-97. | 1.1 | 11 |
| 33 | Synthesis, structure, and properties of a bentoniteâ€“magnetite composite. Protection of Metals and Physical Chemistry of Surfaces, 2016, 52, 819-824. | 0.3 | 11 |
| 34 | First MnO2-based electrorheological fluids: high response at low filler concentration. Rheologica Acta, 2019, 58, 719-728. | 1.1 | 11 |
| 35 | Comparative study of adsorption capacity of mesoporous silica materials for molsidomine: Effects of functionalizing and solution pH. Materials Science and Engineering C, 2014, 40, 164-171. | 3.8 | 10 |
| 36 | Synthesis, structure and thermal properties of montmorillonite/ionic liquid ionogels. RSC Advances, 2020, 10, 34885-34894. | 1.7 | 10 |

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| 37 | Plasmaâ€assisted synthesis and deposition of molybdenum oxide nanoparticles on polyethylene terephthalate for photocatalytic degradation of rhodamine B. Plasma Processes and Polymers, 2020, 17, 2000012. | 1.6 | 10 |
| 38 | Application of polyethyleneimine to obtain a mesoporous CuOâ€“Al2O3 composite. Mendeleev Communications, 2009, 19, 222-223. | 0.6 | 9 |
| 39 | A simple preparation of highly photoactive Fe(III)-doped titania nanocrystals by annealing-free approach. Journal of Alloys and Compounds, 2013, 581, 675-678. | 2.8 | 9 |
| 40 | Photocatalytic activity of titania nanopowders prepared by a sol-gel process at various pHs. Russian Journal of Inorganic Chemistry, 2015, 60, 906-912. | 0.3 | 9 |
| 41 | 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 |
| 42 | Bentonite filler effect on structure and properties of polystyrene-based composites. Iranian Polymer Journal (English Edition), 2019, 28, 123-133. | 1.3 | 9 |
| 43 | Sol-gel synthesis of titanium dioxide and titanium dioxide-hydroxypropyl cellulose hybrid material and electrorheological characteristics of their dispersions in poly(dimethylsiloxane). Colloid Journal, 2007, 69, 620-626. | 0.5 | 8 |
| 44 | Synthesis of organized mesoporous Î³-alumina templated with polymerâ€“colloidal complex. Journal of Sol-Gel Science and Technology, 2011, 60, 6-10. | 1.1 | 8 |
| 45 | Synthesis of mesoporous Î³-alumina by solâ€“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 |
| 46 | The dielectric properties and flow of electrorheological fluids based on polymer-coated nanodispersed barium tetraacetate titanyl particles upon a dynamic shear in electric fields. Colloid Journal, 2017, 79, 204-211. | 0.5 | 8 |
| 47 | Moâ€doped <scp>TiO<sub>2</sub></scp> using plasma in contact with liquids: advantages and limitations. Journal of Chemical Technology and Biotechnology, 2021, 96, 1125-1131. | 1.6 | 8 |
| 48 | Structure, physicochemical properties, and adsorption performance of the ethyl cellulose/bentonite composite films. Cellulose, 2022, 29, 3947-3961. | 2.4 | 8 |
| 49 | Properties of electrorheological fluids based on nanocrystalline cerium dioxide. Russian Journal of Inorganic Chemistry, 2017, 62, 625-632. | 0.3 | 7 |
| 50 | Modification of polyester fabrics with nanosized titanium dioxide to impart photoactivity. Inorganic Materials: Applied Research, 2017, 8, 696-703. | 0.1 | 7 |
| 51 | Electrorheology of suspensions of mesostructured and mesoporous silica in poly(dimethylsiloxane). Colloid Journal, 2008, 70, 535-540. | 0.5 | 6 |
| 52 | Solâ€“gel synthesis of titanium dioxide-based films possessing highly ordered channel structures. Mendeleev Communications, 2009, 19, 340-341. | 0.6 | 6 |
| 53 | A new approach to apply crystalline titania hydrosols onto a polyester cloth. Mendeleev Communications, 2013, 23, 286-288. | 0.6 | 6 |
| 54 | 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 |

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| 55 | The effect of silicon dioxide concentration on thermodynamic properties of polystyrene-based composites. Protection of Metals and Physical Chemistry of Surfaces, 2015, 51, 253-256. | 0.3 | 6 |
| 56 | 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 |
| 57 | Synthesis of nanostructured iron titanates by soft chemistry methods. Russian Journal of Inorganic Chemistry, 2016, 61, 560-566. | 0.3 | 6 |
| 58 | Template-Free Synthesis and Properties of Mesoporous Calcium Titanate. Protection of Metals and Physical Chemistry of Surfaces, 2019, 55, 667-670. | 0.3 | 6 |
| 59 | Surfactant-Switched Positive/Negative Electrorheological Effect in Tungsten Oxide Suspensions. Molecules, 2019, 24, 3348. | 1.7 | 6 |
| 60 | Volume Changes on Complex Formation of 18-Crown-6 with Amino Acids in Aqueus Solutions. Russian Journal of General Chemistry, 2003, 73, 312-314. | 0.3 | 5 |
| 61 | Thermodynamics of the effects of substituent, degree of substitution, and pH on complex formation of hydroxypropyl-Î±- and hydroxypropyl-Î²-cyclodextrins with ascorbic acid. Russian Chemical Bulletin, 2005, 54, 1883-1886. | 0.4 | 5 |
| 62 | 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 |
| 63 | Low-temperature approach to forming high-porous Fe(III)-TiO2 nanoparticles possessing high photoactivity. Nanotechnologies in Russia, 2014, 9, 15-20. | 0.7 | 5 |
| 64 | Magneto-Optical Modulation on Colloid Cuâ€“Ni Nanocomposite. Journal of Physical Chemistry C, 2015, 119, 1500-1505. | 1.5 | 5 |
| 65 | Using Polymer-Colloid Complexes for Obtaining Mesoporous Aluminium Oxide by the Template Sol-Gel Method. Russian Journal of Inorganic Chemistry, 2018, 63, 1125-1130. | 0.3 | 5 |
| 66 | Deposition of Silver Nanostructures on Polymer Films by Glow Discharge. Plasma Chemistry and Plasma Processing, 2019, 39, 311-323. | 1.1 | 5 |
| 67 | 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 |
| 68 | Solâ€“gel synthesis, characterization and catalytic activity of Î³-alumina with bimodal mesopore distribution. Journal of Sol-Gel Science and Technology, 2013, 68, 155-161. | 1.1 | 4 |
| 69 | 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 |
| 70 | Soft-chemistry synthesis of highly active TiO2-CuO heterostructures having high photoactivity and magnetic properties. Nanotechnologies in Russia, 2012, 7, 599-603. | 0.7 | 3 |
| 71 | Synthesis of doped and undoped Î³-alumina spherical particles by a new solâ€“gel hybrid process and their application for methanol dehydration. Journal of Sol-Gel Science and Technology, 2013, 66, 145-154. | 1.1 | 3 |
| 72 | Dielectric parameters of polystyrene films modified with fullerenes. Russian Journal of Applied Chemistry, 2013, 86, 564-567. | 0.1 | 3 |

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| 73 | Ni Self-Organized Balls as a Promising Energy Storage Material. Journal of Physical Chemistry C, 2016, 120, 16453-16458. | 1.5 | 3 |
| 74 | Electrorheological Properties of Î±-Bi2O3 and Bi2O2CO3. Inorganic Materials, 2019, 55, 344-354. | 0.2 | 3 |
| 75 | Formation of mesoporous structure in Al2O3â€“NaAlO2-based materials produced by template synthesis. Journal of Sol-Gel Science and Technology, 2019, 92, 293-303. | 1.1 | 3 |
| 76 | Electrorheological Properties of Polydimethylsiloxane/TiO2-Based Composite Elastomers. Polymers, 2020, 12, 2137. | 2.0 | 3 |
| 77 | Enhancing the Thermal Stability of Ionogels: Synthesis and Properties of Triple Ionic Liquid/Halloysite/MCC Ionogels. Molecules, 2021, 26, 6198. | 1.7 | 3 |
| 78 | Study of surfaces of TiO2-based nanostructured films obtained under action of various templates. Protection of Metals and Physical Chemistry of Surfaces, 2010, 46, 555-558. | 0.3 | 2 |
| 79 | 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 |
| 80 | New approach to obtaining nanosized pseudobrookite crystals. Nanotechnologies in Russia, 2012, 7, 452-456. | 0.7 | 2 |
| 81 | The influence of dielectric characteristics of suspensions of nanosize barium, barium-strontium, and barium-calcium acetate titanyls in polydimethyl siloxane on the electrorheological effect. Protection of Metals and Physical Chemistry of Surfaces, 2012, 48, 75-79. | 0.3 | 2 |
| 82 | The influence of silver particles of different morphologies on the photoactivity of coatings in the Ag-TiO2 system. Nanotechnologies in Russia, 2013, 8, 616-620. | 0.7 | 2 |
| 83 | Comparative parameters of the electrorheological effect in suspensions of nanosized barium titanyl acetates and titanyl oxalates in PMS-20 silicon oil. Protection of Metals and Physical Chemistry of Surfaces, 2014, 50, 484-487. | 0.3 | 2 |
| 84 | Growth of optically active multilayer metal oxide films on a plastic substrate. Inorganic Materials, 2016, 52, 962-967. | 0.2 | 2 |
| 85 | 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 |
| 86 | Kinetics of Thermal Degradation of Polystyrene/Silica Film Composites. Protection of Metals and Physical Chemistry of Surfaces, 2017, 53, 1070-1074. | 0.3 | 2 |
| 87 | Thermodynamics of intermolecular interactions between saccharides and 18-crown-6 in water. Mendeleev Communications, 2002, 12, 80. | 0.6 | 1 |
| 88 | Effect of nature of templates on formation mechanism of aluminum oxide mesoporous structure. Colloid Journal, 2010, 72, 163-167. | 0.5 | 1 |
| 89 | Physicochemical properties of hybrid silicon dioxideâ€“polyethylene glycol organoinorganic materials as potential antioxidants. Protection of Metals and Physical Chemistry of Surfaces, 2010, 46, 662-665. | 0.3 | 1 |
| 90 | High-Induced Photo-emf and Photocatalytic Properties of Nanostructured TiO2-Based Powders and Films Obtained by the Solâ€“Gel Template Synthesis. Journal of Inorganic and Organometallic Polymers and Materials, 2012, 22, 1034-1040. | 1.9 | 1 |

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| 91 | Low-Temperature Sol-Gel Synthesis, Spectroscopic Properties and Conductivity of the Thin Films of TiO2â€“CuO Nanoparticles. Mendeleev Communications, 2012, 22, 307-309. | 0.6 | 1 |
| 92 | Structure and properties of hybrid composites based on hydroxyethyl cellulose and laminar alumosilicate. Protection of Metals and Physical Chemistry of Surfaces, 2014, 50, 300-303. | 0.3 | 1 |
| 93 | Photoelectrochemical properties of thin films on titanium obtained by thermal, electrochemical, or sol-gel method. Journal of Solid State Electrochemistry, 2017, 21, 1777-1784. | 1.2 | 1 |
| 94 | Solution process-based technologies: A new way for textile nanofunctionalization. Russian Journal of General Chemistry, 2017, 87, 1412-1417. | 0.3 | 1 |
| 95 | Polydimethylsiloxane Elastomers Filled with Rod-Like Î±-MnO2 Nanoparticles: An Interplay of Structure and Electrorheological Performance. Polymers, 2020, 12, 2810. | 2.0 | 1 |
| 96 | 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 |
| 97 | Summary of the 3rd solâ€“gel conference of the CIS countries. Journal of Sol-Gel Science and Technology, 2016, 80, 233-238. | 1.1 | 0 |
| 98 | Preparation and Properties of Organic-Inorganic Composites Based on Hydroxyethyl Cellulose. Fibre Chemistry, 2018, 50, 349-353. | 0.0 | 0 |
| 99 | Sorption of Methylene Blue on Polystyrene/Bentonite Film Composites. Protection of Metals and Physical Chemistry of Surfaces, 2018, 54, 763-768. | 0.3 | 0 |
| 100 | Thermal behaviour of polystyrene/silica composites. Philosophical Magazine Letters, 2018, 98, 107-117. | 0.5 | 0 |
| 101 | Dielectric Properties of Multilayer Optically Transparent TiO2-Nanosilver Coating on Polyester Substrate Obtained by Solvent Method. Inorganic Materials: Applied Research, 2018, 9, 973-977. | 0.1 | 0 |
| 102 | Kinetics of Methylene Blue Sorption on Polystyrene/Bentonite/Magnetite-Film Composites. Protection of Metals and Physical Chemistry of Surfaces, 2018, 54, 569-573. | 0.3 | 0 |