

Vladimir Gun'ko

List of Publications by Year in descending order

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363
papers

9,518
citations

57681

46
h-index

93651

72
g-index

365
all docs

365
docs citations

365
times ranked

7996
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 1 | Preparation and characterization of Ni ²⁺ /Co/SiO ₂ nanocomposite catalysts for CO ₂ methanation. Applied Nanoscience (Switzerland), 2022, 12, 349-359. | 1.6 | 10 |
| 2 | Controlled confined space effects on clustered water bound to hydrophobic nanosilica with nonpolar and polar co-adsorbates. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2022, 644, 128919. | 2.3 | 3 |
| 3 | Atomic charge distribution functions as a tool to analyze electronic structure of molecular and cluster systems. International Journal of Quantum Chemistry, 2021, 121, e26665. | 1.0 | 6 |
| 4 | Polymer Adsorbents vs. Functionalized Oxides and Carbons: Particulate Morphology and Textural and Surface Characteristics. Polymers, 2021, 13, 1249. | 2.0 | 10 |
| 5 | Interfacial behavior of polar and nonpolar frozen/unfrozen liquids interacting with hydrophilic and hydrophobic nanosilicas alone and in blends. Journal of Colloid and Interface Science, 2021, 588, 70-83. | 5.0 | 17 |
| 6 | Magneto-sensitive Carbon-inorganic Composites Based on Particleboard and Plywood Wastes. Chemistry Journal of Moldova, 2021, 16, 68-78. | 0.3 | 2 |
| 7 | Temperature (200–283 K) dependence of methane adsorption onto hydrophobic nanosilica/arginine composite at various hydration. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2021, 624, 126844. | 2.3 | 1 |
| 8 | Surface Chemistry of Nanohybrids with Fumed Silica Functionalized by Polydimethylsiloxane/Dimethyl Carbonate Studied Using ¹ H, ¹³ C, and ²⁹ Si Solid-State NMR Spectroscopy. Molecules, 2021, 26, 5974. | 1.7 | 1 |
| 9 | Interfacial phenomena in natural nanostructured materials based on kaolinite and calcite in blends with nanosilica and neem leaf powder. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2020, 586, 124238. | 2.3 | 2 |
| 10 | Sugarcane bagasse and straw as low-cost lignocellulosic sorbents for the removal of dyes and metal ions from water. Cellulose, 2020, 27, 8181-8197. | 2.4 | 35 |
| 11 | Membrane-Filtered Kraft Lignin–Silica Hybrids as Bio-Based Sorbents for Cobalt(II) Ion Recycling. ACS Omega, 2020, 5, 10847-10856. | 1.6 | 27 |
| 12 | Modelling of multi-component kerosene and surrogate fuel droplet heating and evaporation characteristics: A comparative analysis. Fuel, 2020, 269, 117115. | 3.4 | 24 |
| 13 | Nanostructured Amorphous Silicas Hydrophobized by Various Pathways. ACS Omega, 2019, 4, 13863-13871. | 1.6 | 5 |
| 14 | Silica-supported Ni _x O _y , Zn _x O _y and Mn _x O _y nanocomposites: physicochemical characteristics and interactions with water and n-decane. Bulletin of Materials Science, 2019, 42, 1. | 0.8 | 5 |
| 15 | Nanostructured Polymethylsiloxane/Fumed Silica Blends. Materials, 2019, 12, 2409. | 1.3 | 14 |
| 16 | Effect of mechanical treatment on the distribution of valence electrons and characteristics of nanocomposite (SiO ₂) _x (Al ₂ O ₃) _{1-x} (x = 0.8, 0.7) electrodes in lithium power sources. Applied Surface Science, 2019, 494, 1013-1022. | | 3 |
| 17 | Polymethylsiloxane alone and in composition with nanosilica under various conditions. Journal of Colloid and Interface Science, 2019, 541, 213-225. | 5.0 | 23 |
| 18 | The effect of photoactivated transformations of Ag ⁺ and Ag ⁰ in silica fillers on their biocidal activity. Research on Chemical Intermediates, 2019, 45, 3985-4001. | 1.3 | 12 |

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|----|--|-----|-----------|
| 19 | Effects of pre-adsorbed water on methane adsorption onto blends with hydrophobic and hydrophilic nanosilicas. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2019, 570, 471-480. | 2.3 | 20 |
| 20 | Effects of chemisorbed arsenate groups on the mesoporous titania morphology and enhanced adsorption properties towards Sr(II) cations. <i>Journal of Molecular Liquids</i> , 2019, 282, 587-597. | 2.3 | 58 |
| 21 | Morphology, Molecular Dynamics, and Interfacial Phenomena in Systems Based on Silica Modified by Grafting Polydimethylsiloxane Chains and Physically Adsorbed Polydimethylsiloxane. <i>Macromolecules</i> , 2019, 52, 2863-2877. | 2.2 | 39 |
| 22 | Influence of the Synthesis Method on the Structural Characteristics of Novel Hybrid Adsorbents Based on Bentonite. <i>Colloids and Interfaces</i> , 2019, 3, 18. | 0.9 | 7 |
| 23 | Effects of enhanced clusterization of water at a surface of partially silylated nanosilica on adsorption of cations and anions from aqueous media. <i>Microporous and Mesoporous Materials</i> , 2019, 277, 95-104. | 2.2 | 45 |
| 24 | Polymer Composites With Functionalized Silica. , 2019, , 119-148. | | 7 |
| 25 | Influence of water-soluble nonionic polymers adsorption on colloidal properties of nanosilica dispersions. <i>French-Ukrainian Journal of Chemistry</i> , 2019, 7, 57-73. | 0.1 | 0 |
| 26 | Morphology, crystallization and rigid amorphous fraction in PDMS adsorbed onto carbon nanotubes and graphite. <i>Polymer</i> , 2018, 139, 130-144. | 1.8 | 49 |
| 27 | Macro and micro wettability of hydrophobic siloxane films with hierarchical surface roughness. <i>Smart Materials and Structures</i> , 2018, 27, 075002. | 1.8 | 4 |
| 28 | Bonding of doxorubicin to nanosilica and human serum albumin in various media. <i>Journal of Colloid and Interface Science</i> , 2018, 513, 809-819. | 5.0 | 5 |
| 29 | Synthesis and structure characterization of polymeric nanoporous microspheres with lignin. <i>Cellulose</i> , 2018, 25, 5843-5862. | 2.4 | 29 |
| 30 | Water Interactions with Hydrophobic versus Hydrophilic Nanosilica. <i>Langmuir</i> , 2018, 34, 12145-12153. | 1.6 | 37 |
| 31 | Blends of amorphous/crystalline nanoalumina and hydrophobic amorphous nanosilica. <i>Journal of Non-Crystalline Solids</i> , 2018, 500, 351-358. | 1.5 | 28 |
| 32 | Heats of immersion of hydroxyapatite and hydroxyapatite/fumed oxides composites in water and n-decane. <i>Materials Chemistry and Physics</i> , 2018, 215, 99-103. | 2.0 | 5 |
| 33 | Effect of water content on the characteristics of hydro-compacted nanosilica. <i>Applied Surface Science</i> , 2018, 459, 171-178. | 3.1 | 40 |
| 34 | Zeta Potential of Beta Zeolites: Influence of Structure, Acidity, pH, Temperature and Concentration. <i>Molecules</i> , 2018, 23, 946. | 1.7 | 45 |
| 35 | Influence of hydrophobic nanosilica and hydrophobic medium on water bound in hydrophilic components of complex systems. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2018, 552, 39-47. | 2.3 | 27 |
| 36 | Nanosilica modified by polydimethylsiloxane depolymerized and chemically bound to nanoparticles or physically bound to unmodified or modified surfaces: Structure and interfacial phenomena. <i>Journal of Colloid and Interface Science</i> , 2018, 529, 273-282. | 5.0 | 18 |

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|----|---|-----|-----------|
| 37 | Modified nanooxides and related composites for various applications. <i>Visnik Nacional Noi Akademii Nauk Ukrai Ni</i> , 2018, 01, 34-44. | 0.0 | 0 |
| 38 | Interfacial effects in PDMS/titania nanocomposites studied by thermal and dielectric techniques. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2017, 519, 212-222. | 2.3 | 23 |
| 39 | Carbon-silica gel adsorbents. <i>Journal of Thermal Analysis and Calorimetry</i> , 2017, 128, 1683-1697. | 2.0 | 10 |
| 40 | Synthesis, Structural, and Adsorption Properties and Thermal Stability of Nanohydroxyapatite/Polysaccharide Composites. <i>Nanoscale Research Letters</i> , 2017, 12, 155. | 3.1 | 40 |
| 41 | Novel Porous Materials Obtained from Technical Lignins and Their Methacrylate Derivatives Copolymerized with Styrene and Divinylbenzene. <i>ChemistrySelect</i> , 2017, 2, 2257-2264. | 0.7 | 4 |
| 42 | Nanooxide/Polymer Composites with Silica@PDMS and Ceria-Zirconia-Silica@PDMS: Textural, Morphological, and Hydrophilic/Hydrophobic Features. <i>Nanoscale Research Letters</i> , 2017, 12, 152. | 3.1 | 25 |
| 43 | Mixed silica-alumina oxide as sorbent for dyes and metal ions removal from aqueous solutions and wastewaters. <i>Microporous and Mesoporous Materials</i> , 2017, 250, 128-147. | 2.2 | 84 |
| 44 | Application of silica-alumina oxides of different compositions for removal of C.I. Reactive Black 5 dye from wastewaters. <i>Adsorption Science and Technology</i> , 2017, 35, 448-457. | 1.5 | 10 |
| 45 | Behavior of water and methane bound to hydrophilic and hydrophobic nanosilicas and their mixture. <i>Chemical Physics Letters</i> , 2017, 690, 25-30. | 1.2 | 26 |
| 46 | Influence of tannin on aqueous layers at a surface of hydrophilic and hydrophobic nanosilicas. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2017, 531, 9-17. | 2.3 | 12 |
| 47 | Influence of hydrophobization of fumed oxides on interactions with polar and nonpolar adsorbates. <i>Applied Surface Science</i> , 2017, 423, 855-868. | 3.1 | 25 |
| 48 | Adsorption/desorption of explosives on Ni-, Co-, and NiCo-carbon composites: Application in solid phase extraction. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2017, 529, 950-958. | 2.3 | 19 |
| 49 | Interactions of human serum albumin with doxorubicin in different media. <i>Chemical Physics</i> , 2017, 483-484, 26-34. | 0.9 | 21 |
| 50 | Synthesis and properties of zinc oxide photocatalyst by high-temperature processing of resorcinol-formaldehyde/zinc acetate mixture. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2017, 334, 36-46. | 2.0 | 20 |
| 51 | Infrared spectroscopy as a tool for textural and structural characterization of individual and complex fumed oxides. <i>Vibrational Spectroscopy</i> , 2017, 88, 56-62. | 1.2 | 23 |
| 52 | Properties of Water Bound in Hydrogels. <i>Gels</i> , 2017, 3, 37. | 2.1 | 162 |
| 53 | Comparison of the Poly(vinyl alcohol) Adsorption Behaviour on the Mixed Oxides with Different Surface Structure. <i>Medziagotyra</i> , 2016, 22, . | 0.1 | 1 |
| 54 | Multi-layer graphene oxide alone and in a composite with nanosilica: Preparation and interactions with polar and nonpolar adsorbates. <i>Applied Surface Science</i> , 2016, 387, 736-749. | 3.1 | 5 |

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| 55 | Effects of Molecular Weight below the Entanglement Threshold on Interfacial Nanoparticles/Polymer Dynamics. <i>Macromolecules</i> , 2016, 49, 9457-9473. | 2.2 | 82 |
| 56 | Interfacial phenomena at a surface of individual and complex fumed nanooxides. <i>Advances in Colloid and Interface Science</i> , 2016, 235, 108-189. | 7.0 | 50 |
| 57 | Structural Features of Carbons Produced Using Glucose, Lactose, and Saccharose. <i>Nanoscale Research Letters</i> , 2016, 11, 508. | 3.1 | 24 |
| 58 | Solid-phase extraction of explosive nitramines on macroreticular polymers modified by freezing with water or acetone. <i>Journal of Separation Science</i> , 2016, 39, 1524-1532. | 1.3 | 2 |
| 59 | Silica-Supported Titania/Zirconia Nanocomposites: Structural and Morphological Characteristics in Different Media. <i>Nanoscale Research Letters</i> , 2016, 11, 111. | 3.1 | 23 |
| 60 | Structural and Morphological Features of Disperse Alumina Synthesized Using Aluminum Nitrate Nonahydrate. <i>Nanoscale Research Letters</i> , 2016, 11, 153. | 3.1 | 32 |
| 61 | Characteristics of surface and electrochemical properties of composites with fumed metal oxides and hydroxyapatite. <i>Adsorption</i> , 2016, 22, 725-734. | 1.4 | 10 |
| 62 | Nature and morphology of fumed oxides and features of interfacial phenomena. <i>Applied Surface Science</i> , 2016, 366, 410-423. | 3.1 | 13 |
| 63 | Influence of structural organization of silicas on interfacial phenomena. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2016, 492, 230-241. | 2.3 | 15 |
| 64 | Titania-coated nanosilica/cobalt ferrite composites: Structure and photocatalytic activity. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2016, 319-320, 40-52. | 2.0 | 12 |
| 65 | Morphology and molecular dynamics investigation of PDMS adsorbed on titania nanoparticles: Effects of polymer molecular weight. <i>European Polymer Journal</i> , 2016, 74, 64-80. | 2.6 | 62 |
| 66 | Quantum-chemical analysis of the processes at the surfaces of Diesel fuel droplets. <i>Fuel</i> , 2016, 165, 405-412. | 3.4 | 9 |
| 67 | Synthesis and structural features of resorcinol-formaldehyde resin chars containing nickel nanoparticles. <i>Applied Surface Science</i> , 2016, 360, 722-730. | 3.1 | 14 |
| 68 | Interfacial Phenomena: Effects of Confined Space and Structure of Adsorbents on the Behavior of Polar and Nonpolar Adsorbates at Low Temperatures. <i>Current Physical Chemistry</i> , 2016, 5, 137-172. | 0.1 | 20 |
| 69 | Interfacial phenomena in core-shell nanocomposites of PDMS adsorbed onto low specific surface area fumed silica nanooxides: Effects of surface modification. <i>Polymer</i> , 2015, 68, 158-167. | 1.8 | 42 |
| 70 | Magneto-Sensitive Ni/C Adsorbents: Synthesis, Properties and Applications. <i>Adsorption Science and Technology</i> , 2015, 33, 523-529. | 1.5 | 8 |
| 71 | Influence of carbon deposits and subsequent silylation of silica gel on sorption efficiency of explosive nitramines. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2015, 468, 76-86. | 2.3 | 10 |
| 72 | Interfacial interactions and complex segmental dynamics in systems based on silica-polydimethylsiloxane core-shell nanoparticles: Dielectric and thermal study. <i>Polymer</i> , 2015, 58, 9-21. | 1.8 | 41 |

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|----|--|-----|-----------|
| 73 | Low-temperature high-pressure cryogelation of nanooxides. Journal of Sol-Gel Science and Technology, 2015, 74, 45-54. | 1.1 | 8 |
| 74 | Investigation of the polyvinyl alcohol stabilization mechanism and adsorption properties on the surface of ternary mixed nanooxide AST 50 (Al ₂ O ₃ •SiO ₂ •TiO ₂). Journal of Nanoparticle Research, 2015, 17, 12. | 0.8 | 56 |
| 75 | Wettability of modified silica layers deposited on glass support activated by plasma. Applied Surface Science, 2015, 353, 843-850. | 3.1 | 22 |
| 76 | The effects of internal molecular dynamics on the evaporation/condensation of n-dodecane. Theoretical Chemistry Accounts, 2015, 134, 1. | 0.5 | 8 |
| 77 | Evaluation of adsorption and desorption steps in the solid-phase extraction of explosives using carbon/silica gel nanocomposites. Journal of Separation Science, 2015, 38, 2488-2495. | 1.3 | 9 |
| 78 | Adsorptive removal of acid, reactive and direct dyes from aqueous solutions and wastewater using mixed silica-alumina oxide. Powder Technology, 2015, 278, 306-315. | 2.1 | 100 |
| 79 | Effects of strongly aggregated silica nanoparticles on interfacial behaviour of water bound to lactic acid bacteria. RSC Advances, 2015, 5, 7734-7739. | 1.7 | 6 |
| 80 | Adsorption, Electrokinetic and Stabilizing Properties of the Guar Gum/Surfactant/Alumina System. Journal of Surfactants and Detergents, 2015, 18, 445-453. | 1.0 | 9 |
| 81 | Evaporation of polar and nonpolar liquids from silica gels and fumed silica. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2015, 474, 52-62. | 2.3 | 15 |
| 82 | Effects of the surroundings and conformerisation of n-dodecane molecules on evaporation/condensation processes. Journal of Chemical Physics, 2015, 142, 034502. | 1.2 | 14 |
| 83 | Silica-supported ceria-zirconia and titania-zirconia nanocomposites: Structural characteristics and electro-surface properties. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2015, 482, 631-638. | 2.3 | 10 |
| 84 | Synthesis and characterization of carbon composites containing Fe, Co, Ni nanoparticles. Journal of Thermal Analysis and Calorimetry, 2015, 122, 553-561. | 2.0 | 21 |
| 85 | Unusual interfacial phenomena at a surface of fullerite and carbon nanotubes. Chemical Physics, 2015, 459, 172-185. | 0.9 | 23 |
| 86 | Effect of polyvinyl alcohol adsorption on the mixed alumina-silica-titania suspension stability. Journal of Industrial and Engineering Chemistry, 2015, 23, 265-272. | 2.9 | 20 |
| 87 | Band-Gap Change and Photocatalytic Activity of Silica/Titania Composites Associated with Incorporation of CuO and NiO. Himia, Fizika Ta Tehnologija Poverhni, 2015, 5, 421-437. | 0.2 | 0 |
| 88 | Morphological and Electronic Characteristics of Nanoalumina Alone and in High-Temperature (Fumed) and Low-Temperature (Mechanical) Mixtures with Nanosilica. Himia, Fizika Ta Tehnologija Poverhni, 2015, 5, 136-144. | 0.2 | 0 |
| 89 | Modelling of Evaporation of Clusters and Nanodroplets of Organic Molecules Using Quantum Chemical and the Kinetic Gas Theory Methods. Himia, Fizika Ta Tehnologija Poverhni, 2015, 6, 5-19. | 0.2 | 1 |
| 90 | Textural Characteristics of Resorcinol-Formaldehyde Resin and Temperature Behavior of Bound Water Affected by Co-Adsorbed Trifluoroacetic Acid or Pyridine in Weakly Polar Organic Media. Adsorption Science and Technology, 2014, 32, 845-855. | 1.5 | 1 |

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|-----|--|-----|-----------|
| 91 | Dielectric and thermal studies of segmental dynamics in silica/PDMS and silica/titania/PDMS nanocomposites. <i>Journal of Applied Polymer Science</i> , 2014, 131, . | 1.3 | 25 |
| 92 | Hydrophilic nanocomposites based on polyurethane/poly(2-hydroxyethyl methacrylate) semi-IPNs and modified/unmodified nanosilica for biomedical applications. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2014, 52, 397-408. | 2.4 | 14 |
| 93 | Synthesis and characterization of resorcinol-formaldehyde resin chars doped by zinc oxide. <i>Applied Surface Science</i> , 2014, 303, 263-271. | 3.1 | 11 |
| 94 | Composite materials: Textural characteristics. <i>Applied Surface Science</i> , 2014, 307, 444-454. | 3.1 | 109 |
| 95 | A study of the evaporation and condensation of n-alkane clusters and nanodroplets using quantum chemical methods. <i>Fluid Phase Equilibria</i> , 2014, 366, 99-107. | 1.4 | 15 |
| 96 | Comparison of stability properties of poly(acrylic acid) adsorbed on the surface of silica, alumina and mixed silica-alumina nanoparticles – application of turbidimetry method. <i>Open Chemistry</i> , 2014, 12, 476-479. | 1.0 | 20 |
| 97 | Interfacial behavior of water bound to nitrocellulose containing residual nitric and sulfuric acids. <i>Open Chemistry</i> , 2014, 12, 509-518. | 1.0 | 4 |
| 98 | Effects of dissolved metal chlorides on the behavior of silica nanoparticles in aqueous media. <i>Open Chemistry</i> , 2014, 12, 480-491. | 1.0 | 15 |
| 99 | Comparison of adsorption affinity of polyacrylic acid for surfaces of mixed silica-alumina. <i>Colloid and Polymer Science</i> , 2014, 292, 699-705. | 1.0 | 98 |
| 100 | Structural features of fumed silica and alumina alone, blend powders and fumed binary systems. <i>Journal of Non-Crystalline Solids</i> , 2014, 403, 30-37. | 1.5 | 11 |
| 101 | Clusters of nonsolvent water in partially destroyed <i>Saccharomyces cerevisiae</i> yeast cells. <i>Biophysics (Russian Federation)</i> , 2014, 59, 402-407. | 0.2 | 0 |
| 102 | Investigation of stabilization and destabilization possibilities of water alumina suspension in polyelectrolyte presence. <i>International Journal of Mineral Processing</i> , 2014, 132, 34-42. | 2.6 | 10 |
| 103 | Chitosan-nanosilica hybrid materials: Preparation and properties. <i>Applied Surface Science</i> , 2014, 320, 563-569. | 3.1 | 31 |
| 104 | Mixed bifunctional surface-modified silicas using tethered aminofunctional silane catalysts. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2014, 462, 1-8. | 2.3 | 13 |
| 105 | Interfacial phenomena at a surface of partially silylated nanosilica. <i>Journal of Colloid and Interface Science</i> , 2014, 434, 28-39. | 5.0 | 9 |
| 106 | Interactions of poly(dimethylsiloxane) with nanosilica and silica gel upon cooling-heating. <i>Journal of Colloid and Interface Science</i> , 2014, 426, 48-55. | 5.0 | 12 |
| 107 | A multi-dimensional quasi-discrete model for the analysis of Diesel fuel droplet heating and evaporation. <i>Fuel</i> , 2014, 129, 238-266. | 3.4 | 71 |
| 108 | Dielectric properties and thermal destruction of poly(dimethylsiloxane)/Fe ₂ O ₃ /SiO ₂ nanocomposites. <i>Applied Surface Science</i> , 2014, 305, 67-76. | 3.1 | 29 |

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|-----|---|-----|-----------|
| 109 | Cryogelation of individual and complex nanooxides under different conditions. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2014, 456, 261-272. | 2.3 | 14 |
| 110 | Thermal and dielectric studies of PEG/C/AST nanocomposites. <i>Journal of Applied Polymer Science</i> , 2013, 128, 1601-1615. | 1.3 | 6 |
| 111 | Structural and morphological features of crystalline nanotitania synthesized in different aqueous media. <i>Chemical Physics Letters</i> , 2013, 583, 103-108. | 1.2 | 7 |
| 112 | Structural features of Zn _x O _y /nanosilica composites. <i>Applied Surface Science</i> , 2013, 276, 802-809. | 3.1 | 8 |
| 113 | Interfacial behavior of polar, weakly polar, and nonpolar compounds bound to activated carbons. <i>Journal of Colloid and Interface Science</i> , 2013, 404, 140-149. | 5.0 | 6 |
| 114 | Interfacial behavior of water bound to zirconia/nanosilica with adsorbed poly(dimethylsiloxane). <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2013, 426, 47-54. | 2.3 | 9 |
| 115 | Polyurethane- <i>poly</i> (2-hydroxyethyl methacrylate) semi-IPN nanooxide composites. <i>RSC Advances</i> , 2013, 3, 14560. | 1.7 | 18 |
| 116 | High-pressure cryogelation of nanosilica and surface properties of cryosilicas. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2013, 436, 618-632. | 2.3 | 15 |
| 117 | Synthesis and properties of composites synthesized by deposition of TiO ₂ doped with SnO ₂ or NiO ₂ onto A-300 nanosilica. <i>Protection of Metals and Physical Chemistry of Surfaces</i> , 2013, 49, 541-547. | 0.3 | 5 |
| 118 | Structural features of resorcinol-formaldehyde resin chars and interfacial behavior of water co-adsorbed with low-molecular weight organics. <i>Applied Surface Science</i> , 2013, 283, 683-693. | 3.1 | 9 |
| 119 | Stability of Colloidal Silica Modified by Macromolecular Polyacrylic Acid (PAA) - Application of Turbidimetry Method. <i>Journal of Macromolecular Science - Pure and Applied Chemistry</i> , 2013, 50, 639-643. | 1.2 | 18 |
| 120 | Interfacial behavior of silicone oils interacting with nanosilica and silica gels. <i>Journal of Colloid and Interface Science</i> , 2013, 394, 467-474. | 5.0 | 17 |
| 121 | Cryogels: Morphological, structural and adsorption characterisation. <i>Advances in Colloid and Interface Science</i> , 2013, 187-188, 1-46. | 7.0 | 250 |
| 122 | Textural characteristics of model and natural bone tissues and interfacial behavior of bound water. <i>Journal of Colloid and Interface Science</i> , 2013, 392, 446-462. | 5.0 | 5 |
| 123 | Effect of nanosilica on characteristics of carbonizates of phenol-formaldehyde resin - Fe(acac) ₃ . <i>Applied Surface Science</i> , 2013, 264, 707-712. | 3.1 | 7 |
| 124 | Annihilation of the triplet excitons in the nanoporous glass matrices. <i>Journal of Luminescence</i> , 2013, 136, 358-364. | 1.5 | 5 |
| 125 | A quantum chemical study of the processes during the evaporation of real-life Diesel fuel droplets. <i>Fluid Phase Equilibria</i> , 2013, 356, 146-156. | 1.4 | 20 |
| 126 | Effect of solution pH on the stability of mixed silica -alumina suspension in the presence of polyacrylic acid (PAA) with different molecular weights. <i>Open Chemistry</i> , 2013, 11, 101-110. | 1.0 | 14 |

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|-----|--|-----|-----------|
| 127 | Interactions of single and multi-layer graphene oxides with water, methane, organic solvents and HCl studied by ¹ H NMR. Carbon, 2013, 57, 191-201. | 5.4 | 24 |
| 128 | Confined space effects driving to heterogenization of solutions at the interfaces. Adsorption, 2013, 19, 305-321. | 1.4 | 11 |
| 129 | Interfacial Behavior of n-Decane Bound to Weakly Hydrated Silica Gel and Nanosilica over a Broad Temperature Range. Langmuir, 2013, 29, 4303-4314. | 1.6 | 21 |
| 130 | Single-Layer Graphenes Functionalized with Polyurea: Architectural Control and Biomolecule Reactivity. Journal of Physical Chemistry C, 2013, 117, 11829-11836. | 1.5 | 10 |
| 131 | Post-synthesis surface-modified silicas as adsorbents for heavy metal ion contaminants Cd(II), Cu(II), Cr(III), and Sr(II) in aqueous solutions. Journal of Colloid and Interface Science, 2013, 392, 57-64. | 5.0 | 32 |
| 132 | Molecular-Level Understanding of the Carbonisation of Polysaccharides. Chemistry - A European Journal, 2013, 19, 9351-9357. | 1.7 | 33 |
| 133 | Effect of polyacrylic acid (PAA) adsorption on stability of mixed alumina-silica oxide suspension. Powder Technology, 2013, 233, 190-200. | 2.1 | 45 |
| 134 | MODELING OF INTERFACIAL BEHAVIOR OF WATER AND ORGANICS. Journal of Theoretical and Computational Chemistry, 2013, 12, 1350059. | 1.8 | 13 |
| 135 | Composites with Macroporous Poly(vinyl alcohol) Cryogels with Attached Activated Carbon Microparticles with Controlled Accessibility of a Surface. ACS Applied Materials & Interfaces, 2012, 4, 5936-5944. | 4.0 | 23 |
| 136 | A comparative study of air-dry and water swollen flax and cotton fibres. RSC Advances, 2012, 2, 2868. | 1.7 | 13 |
| 137 | Cottonised flax fibres vs. cotton fibres: structural, textural and adsorption characteristics. RSC Advances, 2012, 2, 2032. | 1.7 | 31 |
| 138 | Driving Forces of Conformational Changes in Single-Layer Graphene Oxide. ACS Nano, 2012, 6, 3967-3973. | 7.3 | 107 |
| 139 | Structural characteristics of mixed oxides MO _x /SiO ₂ affecting photocatalytic decomposition of methylene blue. Applied Surface Science, 2012, 258, 6288-6296. | 3.1 | 11 |
| 140 | Role of dipole image forces in molecular adsorption. European Physical Journal B, 2012, 85, 1. | 0.6 | 12 |
| 141 | Activated carbons and carbon-containing poly(vinyl alcohol) cryogels: characterization, protein adsorption and possibility of myoglobin clearance. Physical Chemistry Chemical Physics, 2012, 14, 16267. | 1.3 | 26 |
| 142 | Creation of 3-dimensional carbon nanostructures from UV irradiation of carbon dioxide at room temperature. Journal of Supercritical Fluids, 2012, 72, 1-6. | 1.6 | 1 |
| 143 | Dynamics, thermal behaviour and elastic properties of thin films of poly(vinyl alcohol) nanocomposites. RSC Advances, 2012, 2, 1424-1431. | 1.7 | 14 |
| 144 | Morphology and adsorption properties of chemically modified MWCNT probed by nitrogen, n-propane and water vapor. Carbon, 2012, 50, 577-585. | 5.4 | 31 |

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