

Sergei A Alekseev

List of Publications by Year in descending order

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72
papers

928
citations

430442

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525886

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72
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72
docs citations

72
times ranked

1092
citing authors

#	ARTICLE	IF	CITATIONS
1	Development of three-enzyme lactose amperometric biosensor modified by nanosized poly (meta-phenylenediamine) film. Applied Nanoscience (Switzerland), 2022, 12, 1267-1274.	1.6	12
2	The impact of the silica gel structure and surface chemistry on the melting of aliphatic nanocrystals: Thermodynamic model and experiment. Journal of Physics and Chemistry of Solids, 2022, 161, 110426.	1.9	3
3	Investigation of relaxation processes and phase transitions in the silica gel-undecylenic acid system using IR spectra in a wide temperature range. Molecular Crystals and Liquid Crystals, 2022, 748, 9-18.	0.4	2
4	Carbon screen-printed electrodes modified with composite films based on silica for H ₂ O ₂ determination. Molecular Crystals and Liquid Crystals, 2021, 718, 42-49.	0.4	1
5	Topological solitons in crystals formed by aliphatic molecules with dimeric rings. Molecular Crystals and Liquid Crystals, 2021, 721, 74-85.	0.4	4
6	Impact of Carbon Fluoroxide Nanoparticles on Cell Proliferation. Nanomaterials, 2021, 11, 3168.	1.9	2
7	Topological solitons in aliphatic systems with a restricted translational mobility. Chemical Physics, 2020, 539, 110959.	0.9	4
8	Synthesis and evaluation of manganese dioxide with layered structure as an adsorbent for selective removal of strontium ions from aqueous solution. SN Applied Sciences, 2020, 2, 1.	1.5	11
9	Investigation of the structure and mechanisms of thermal motion in nanostructured undecylenic acid. Molecular Crystals and Liquid Crystals, 2020, 701, 16-27.	0.4	9
10	Kinetics of Hydrogen Generation from Oxidation of Hydrogenated Silicon Nanocrystals in Aqueous Solutions. Nanomaterials, 2020, 10, 1413.	1.9	19
11	Superior Fischer-Tropsch performance of uniform cobalt nanoparticles deposited into mesoporous SiC. Journal of Catalysis, 2020, 383, 297-303.	3.1	13
12	Are Fluorescent Silicon Nanoparticles Formed in a One-Pot Aqueous Synthesis?. Chemistry of Materials, 2019, 31, 7167-7172.	3.2	32
13	Thermal conductivity of nanofluids formed by carbon fluoroxyde mesoparticles. SN Applied Sciences, 2019, 1, 1.	1.5	11
14	Structural and photocatalytic properties of silicon carbide powder and nanowires modified by gold nanoparticles. Research on Chemical Intermediates, 2019, 45, 4081-4100.	1.3	6
15	Nanocrystallite "liquid phase transition in porous matrices with chemically functionalized surfaces. Physical Chemistry Chemical Physics, 2019, 21, 24674-24683.	1.3	13
16	Ethanol gas sensing performance of electrochemically anodized freestanding porous SiC. Diamond and Related Materials, 2019, 91, 84-89.	1.8	11
17	Mesoporous SiC with Potential Catalytic Application by Electrochemical Dissolution of Polycrystalline 3C-SiC. ACS Applied Nano Materials, 2018, 1, 2609-2620.	2.4	16
18	Impact of Water Adsorption on Nonlinear Optical Properties of Functionalized Porous Silicon. Nanoscale Research Letters, 2017, 12, 69.	3.1	5

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19	Folate-modified silicon carbide nanoparticles as multiphoton imaging nanoprobe for cancer-cell-specific labeling. <i>RSC Advances</i> , 2017, 7, 27361-27369.	1.7	15
20	Improvement of amperometric transducer selectivity using nanosized phenylenediamine films. <i>Nanoscale Research Letters</i> , 2017, 12, 594.	3.1	16
21	Fifty nanometer lines patterned into silica using water developable chitosan bioresist and electron beam lithography. <i>Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics</i> , 2017, 35, .	0.6	8
22	Size and Surface Chemistry Tuning of Silicon Carbide Nanoparticles. <i>Langmuir</i> , 2017, 33, 13561-13571.	1.6	39
23	Photoelectric Signal Conversion in Deep p-n Junction for Detection of Carbon Nanotubes with Adsorbed SDBS in Aqueous Solution. <i>Journal of Nano- and Electronic Physics</i> , 2017, 9, 04020-1-04020-6.	0.2	3
24	Mesoporous silicon carbide via nanocasting of Ludox [®] xerogel. <i>RSC Advances</i> , 2016, 6, 108828-108839.	1.7	5
25	Solid-Phase Spectrophotometric Analysis of 1-Naphthol Using Silica Functionalized with m-Diazophenylarsonic Acid. <i>Nanoscale Research Letters</i> , 2016, 11, 149.	3.1	1
26	Determining the impact of hydrofluoric acid on surface states of as-prepared and chemically modified Si nanocrystals. <i>RSC Advances</i> , 2016, 6, 3723-3728.	1.7	9
27	Nanoscale morphology tuning of mesoporous Ge: electrochemical mechanisms. <i>Electrochimica Acta</i> , 2015, 180, 545-554.	2.6	21
28	Delivery of SiC-based nanoparticles into live cells driven by cell-penetrating peptides SAP and SAP-E. <i>RSC Advances</i> , 2015, 5, 20498-20502.	1.7	5
29	Carbon fluoroxide nanoparticles as fluorescent labels and sonosensitizers for theranostic applications. <i>Science and Technology of Advanced Materials</i> , 2015, 16, 044601.	2.8	18
30	Electrochemical Synthesis of Carbon Fluoroxide Nanoparticles from 3C-SiC Substrates. <i>Journal of Physical Chemistry C</i> , 2015, 119, 20503-20514.	1.5	21
31	Formation and properties of SiC and C particle nano-colloids in non-polar liquids. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2015, 12, 153-157.	0.8	1
32	Thermochemical Methods for the Characterization of the Organosilicas with Immobilized Aminophosphonic Acid. <i>Methods and Objects of Chemical Analysis</i> , 2015, 10, 45-52.	0.4	1
33	Trypsinization-dependent cell labeling with fluorescent nanoparticles. <i>Nanoscale Research Letters</i> , 2014, 9, 568.	3.1	8
34	Mesoporous Organosilicas with Arylsulfonic Acid Bridging Groups in the Alkylation of Isobutylene by Ethanol. <i>Theoretical and Experimental Chemistry</i> , 2014, 49, 381-389.	0.2	2
35	Silicon Carbide with Uniformly Sized Spherical Mesopores from Butoxylated Silica Nanoparticles Template. <i>Journal of Physical Chemistry C</i> , 2014, 118, 23745-23750.	1.5	8
36	Preparation, Luminescent Properties and Bioimaging Application of Quantum Dots Based on Si and SiC. <i>Engineering Materials</i> , 2014, , 323-348.	0.3	1

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37	Luminescence nanothermometry with alkyl-capped silicon nanoparticles dispersed in nonpolar liquids. <i>Nanoscale Research Letters</i> , 2014, 9, 94.	3.1	12
38	Sorption preconcentration of cadmium and lead ions as complexes with unithiol on a silica surface modified by quaternary ammonium salt groups. <i>Journal of Analytical Chemistry</i> , 2013, 68, 206-211.	0.4	1
39	Photoluminescence of silicon nanoparticles chemically modified by alkyl groups and dispersed in low-polar liquids. <i>Journal of Nanoparticle Research</i> , 2013, 15, 1.	0.8	26
40	Photoluminescence thermometry with alkyl-terminated silicon nanoparticles dispersed in low-polar liquids. <i>Physica Status Solidi - Rapid Research Letters</i> , 2013, 7, 414-417.	1.2	20
41	Fluorescent (Au@SiO ₂)SiC Nanohybrids: Influence of Gold Nanoparticle Diameter and SiC Nanoparticle Surface Density. <i>Plasmonics</i> , 2013, 8, 85-92.	1.8	9
42	Charge-driven selective localization of fluorescent nanoparticles in live cells. <i>Nanotechnology</i> , 2012, 23, 315101.	1.3	31
43	Luminescence behavior of silicon and carbon nanoparticles dispersed in low-polar liquids. <i>Nanoscale Research Letters</i> , 2012, 7, 365.	3.1	7
44	SiC as a Biocompatible Marker for Cell Labeling. , 2012, , 377-429.		4
45	Plasmon-controlled narrower and blue-shifted fluorescence emission in (Au@SiO ₂)SiC nanohybrids. <i>Journal of Nanoparticle Research</i> , 2012, 14, 1.	0.8	15
46	Photoacoustic thermal conductivity determination of layered structures PS-Si: piezoelectric detection. <i>Journal of Physics: Conference Series</i> , 2011, 278, 012003.	0.3	8
47	Size tuning of luminescent silicon nanoparticles with meso-porous silicon membranes. <i>Journal of Colloid and Interface Science</i> , 2011, 364, 65-70.	5.0	10
48	Sorption concentration of IO ³⁻ and I ⁻ on anion exchangers AV-17 and silicas modified with tertiary ammonium groups. <i>Journal of Water Chemistry and Technology</i> , 2011, 33, 248-254.	0.2	0
49	Hydrogen production from nano-porous Si powder formed by stain etching. <i>International Journal of Hydrogen Energy</i> , 2010, 35, 6773-6778.	3.8	51
50	Fine band structure of the vibrational spectra of fullerite C ₆₀ and enhancement of intermolecular interaction in high-temperature phase. <i>Optics and Spectroscopy (English Translation of Optika i Tj ETQq0 0 0 rgBTQq0verlocke10 Tf 50 2</i>		
51	Combined Vibrational Spectroscopic and Theoretical Study on Nature of BN Powders Surface. <i>Journal of Physical Chemistry C</i> , 2010, 114, 1102-1109.	1.5	7
52	Influence of the interfacial chemical environment on the luminescence of 3C-SiC nanoparticles. <i>Journal of Applied Physics</i> , 2010, 107, 013503.	1.1	49
53	Influence of palladium particles impregnation on hydrogen behavior in meso-porous silicon. <i>Journal of Alloys and Compounds</i> , 2010, 492, 466-472.	2.8	24
54	Template-directed synthesis of dually porous periodic organosilicas with 1,5-bis-(2-ethyl)-xylene bridging groups. <i>Materials Chemistry and Physics</i> , 2009, 114, 485-489.	2.0	3

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55	Chemically modified porous silicon for laser desorption/ionization mass spectrometry of ionic dyes. <i>Journal of Mass Spectrometry</i> , 2009, 44, 1234-1240.	0.7	20
56	Porous silicon based microdevice for reversed phase liquid chromatography. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2009, 6, 1777-1781.	0.8	5
57	Surface-Assisted Laser Desorption Ionization of Low Molecular Organic Substances on Oxidized Porous Silicon. , 2009, , 45-50.		0
58	Characterization of sol-gel-derived polyhydrosiloxane pre-ceramic polymer. <i>Materials Chemistry and Physics</i> , 2008, 108, 24-28.	2.0	4
59	Fourier Transform Infrared Spectroscopy and Temperature-Programmed Desorption Mass Spectrometry Study of Surface Chemistry of Porous 6H-SiC. <i>Chemistry of Materials</i> , 2007, 19, 2189-2194.	3.2	34
60	Application of Infrared Interferometry for Quantitative Analysis of Chemical Groups Grafted onto the Internal Surface of Porous Silicon Nanostructures. <i>Journal of Physical Chemistry C</i> , 2007, 111, 15217-15222.	1.5	27
61	Covalent grafting of ion-exchanging groups on porous silicon for microsystem applications. <i>Sensors and Actuators B: Chemical</i> , 2007, 126, 120-125.	4.0	11
62	Incorporation of hydrogen in porous silicon nanocrystallites. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2007, 204, 1307-1311.	0.8	2
63	Analysis of interaction between chemical agents and porous Si nanostructures using optical sensing properties of infra-red Rugate filters. <i>Sensors and Actuators B: Chemical</i> , 2007, 120, 706-711.	4.0	38
64	Organosilicas with Covalently Bonded Groups under Thermochemical Treatment. <i>Chemistry of Materials</i> , 2006, 18, 1981-1987.	3.2	39
65	Study of Porous Silicon Nanostructures as Hydrogen Reservoirs.. <i>ChemInform</i> , 2006, 37, no.	0.1	0
66	Study of Porous Silicon Nanostructures as Hydrogen Reservoirs. <i>Journal of Physical Chemistry B</i> , 2005, 109, 19711-19718.	1.2	80
67	Effect of Silanol Groups on the Acidic and Catalytic Properties of Alkylsulphoacidic Silicas and SiO ₂ /Nafion Nanocomposites. <i>Adsorption Science and Technology</i> , 2004, 22, 615-625.	1.5	11
68	Organosilica materials with 1,5-bis-(2-ethyl)-2,4-dimethyl benzene bridging groups. <i>Theoretical and Experimental Chemistry</i> , 2004, 40, 389-395.	0.2	0
69	Synthesis and structure of grafted layer of silicas modified with alkanesulfonic acid. <i>Russian Chemical Bulletin</i> , 2003, 52, 364-369.	0.4	6
70	Title is missing!. <i>Theoretical and Experimental Chemistry</i> , 2002, 38, 317-323.	0.2	5
71	Study of cooperative effects of silanols on modified silica by dielectric relaxation method. <i>Macromolecular Symposia</i> , 1998, 136, 9-12.	0.4	3
72	Terminal Amines, Nitriles, and Olefins through Catalytic CO Hydrogenation in the Presence of Ammonia. <i>ACS Catalysis</i> , 0, , 14977-14985.	5.5	1