

Sergei A Alekseev

List of Publications by Year in descending order

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72
papers

928
citations

430442

18
h-index

525886

27
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72
all docs

72
docs citations

72
times ranked

1092
citing authors

#	ARTICLE	IF	CITATIONS
1	Study of Porous Silicon Nanostructures as Hydrogen Reservoirs. <i>Journal of Physical Chemistry B</i> , 2005, 109, 19711-19718.	1.2	80
2	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
3	Influence of the interfacial chemical environment on the luminescence of 3C ₁ -SiC nanoparticles. <i>Journal of Applied Physics</i> , 2010, 107, 013503.	1.1	49
4	Organosilicas with Covalently Bonded Groups under Thermochemical Treatment. <i>Chemistry of Materials</i> , 2006, 18, 1981-1987.	3.2	39
5	Size and Surface Chemistry Tuning of Silicon Carbide Nanoparticles. <i>Langmuir</i> , 2017, 33, 13561-13571.	1.6	39
6	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
7	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
8	Are Fluorescent Silicon Nanoparticles Formed in a One-Pot Aqueous Synthesis?. <i>Chemistry of Materials</i> , 2019, 31, 7167-7172.	3.2	32
9	Charge-driven selective localization of fluorescent nanoparticles in live cells. <i>Nanotechnology</i> , 2012, 23, 315101.	1.3	31
10	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
11	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
12	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
13	Nanoscale morphology tuning of mesoporous Ge: electrochemical mechanisms. <i>Electrochimica Acta</i> , 2015, 180, 545-554.	2.6	21
14	Electrochemical Synthesis of Carbon Fluorooxide Nanoparticles from 3C-SiC Substrates. <i>Journal of Physical Chemistry C</i> , 2015, 119, 20503-20514.	1.5	21
15	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
16	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
17	Kinetics of Hydrogen Generation from Oxidation of Hydrogenated Silicon Nanocrystals in Aqueous Solutions. <i>Nanomaterials</i> , 2020, 10, 1413.	1.9	19
18	Carbon fluorooxide nanoparticles as fluorescent labels and sonosensitizers for theranostic applications. <i>Science and Technology of Advanced Materials</i> , 2015, 16, 044601.	2.8	18

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19	Improvement of amperometric transducer selectivity using nanosized phenylenediamine films. <i>Nanoscale Research Letters</i> , 2017, 12, 594.	3.1	16
20	Mesoporous SiC with Potential Catalytic Application by Electrochemical Dissolution of Polycrystalline 3C-SiC. <i>ACS Applied Nano Materials</i> , 2018, 1, 2609-2620.	2.4	16
21	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
22	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
23	Nanocrystallite liquid phase transition in porous matrices with chemically functionalized surfaces. <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 24674-24683.	1.3	13
24	Superior Fischer-Tropsch performance of uniform cobalt nanoparticles deposited into mesoporous SiC. <i>Journal of Catalysis</i> , 2020, 383, 297-303.	3.1	13
25	Luminescence nanothermometry with alkyl-capped silicon nanoparticles dispersed in nonpolar liquids. <i>Nanoscale Research Letters</i> , 2014, 9, 94.	3.1	12
26	Development of three-enzyme lactose amperometric biosensor modified by nanosized poly (meta-phenylenediamine) film. <i>Applied Nanoscience (Switzerland)</i> , 2022, 12, 1267-1274.	1.6	12
27	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
28	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
29	Thermal conductivity of nanofluids formed by carbon flurooxide mesoparticles. <i>SN Applied Sciences</i> , 2019, 1, 1.	1.5	11
30	Ethanol gas sensing performance of electrochemically anodized freestanding porous SiC. <i>Diamond and Related Materials</i> , 2019, 91, 84-89.	1.8	11
31	Synthesis and evaluation of manganese dioxide with layered structure as an adsorbent for selective removal of strontium ions from aqueous solution. <i>SN Applied Sciences</i> , 2020, 2, 1.	1.5	11
32	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
33	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 Spektroskopiya)</i> , 2014, 14, 1074-1078.	0.784	10
34	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
35	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
36	Investigation of the structure and mechanisms of thermal motion in nanostructured undecylenic acid. <i>Molecular Crystals and Liquid Crystals</i> , 2020, 701, 16-27.	0.4	9

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37	Photoacoustic thermal conductivity determination of layered structures PS-Si: piezoelectric detection. <i>Journal of Physics: Conference Series</i> , 2011, 278, 012003.	0.3	8
38	Trypsinization-dependent cell labeling with fluorescent nanoparticles. <i>Nanoscale Research Letters</i> , 2014, 9, 568.	3.1	8
39	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
40	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
41	Combined Vibrational Spectroscopic and Theoretical Study on Nature of <i>c</i> -BN Powders Surface. <i>Journal of Physical Chemistry C</i> , 2010, 114, 1102-1109.	1.5	7
42	Luminescence behavior of silicon and carbon nanoparticles dispersed in low-polar liquids. <i>Nanoscale Research Letters</i> , 2012, 7, 365.	3.1	7
43	Synthesis and structure of grafted layer of silicas modified with alkanesulfonic acid. <i>Russian Chemical Bulletin</i> , 2003, 52, 364-369.	0.4	6
44	Structural and photocatalytic properties of silicon carbide powder and nanowires modified by gold nanoparticles. <i>Research on Chemical Intermediates</i> , 2019, 45, 4081-4100.	1.3	6
45	Title is missing!. <i>Theoretical and Experimental Chemistry</i> , 2002, 38, 317-323.	0.2	5
46	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
47	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
48	Mesoporous silicon carbide via nanocasting of Ludox [®] xerogel. <i>RSC Advances</i> , 2016, 6, 108828-108839.	1.7	5
49	Impact of Water Adsorption on Nonlinear Optical Properties of Functionalized Porous Silicon. <i>Nanoscale Research Letters</i> , 2017, 12, 69.	3.1	5
50	Characterization of sol-gel-derived polyhydridosiloxane pre-ceramic polymer. <i>Materials Chemistry and Physics</i> , 2008, 108, 24-28.	2.0	4
51	SiC as a Biocompatible Marker for Cell Labeling. , 2012, , 377-429.		4
52	Topological solitons in aliphatic systems with a restricted translational mobility. <i>Chemical Physics</i> , 2020, 539, 110959.	0.9	4
53	Topological solitons in crystals formed by aliphatic molecules with dimeric rings. <i>Molecular Crystals and Liquid Crystals</i> , 2021, 721, 74-85.	0.4	4
54	Study of cooperative effects of silanols on modified silica by dielectric relaxation method. <i>Macromolecular Symposia</i> , 1998, 136, 9-12.	0.4	3

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55	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
56	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
57	The impact of the silica gel structure and surface chemistry on the melting of aliphatic nanocrystals: Thermodynamic model and experiment. <i>Journal of Physics and Chemistry of Solids</i> , 2022, 161, 110426.	1.9	3
58	Incorporation of hydrogen in porous silicon nanocrystallites. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2007, 204, 1307-1311.	0.8	2
59	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
60	Impact of Carbon Fluoroxide Nanoparticles on Cell Proliferation. <i>Nanomaterials</i> , 2021, 11, 3168.	1.9	2
61	Investigation of relaxation processes and phase transitions in the silica gel-undecylenic acid system using IR spectra in a wide temperature range. <i>Molecular Crystals and Liquid Crystals</i> , 2022, 748, 9-18.	0.4	2
62	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
63	Preparation, Luminescent Properties and Bioimaging Application of Quantum Dots Based on Si and SiC. <i>Engineering Materials</i> , 2014, , 323-348.	0.3	1
64	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
65	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
66	Carbon screen-printed electrodes modified with composite films based on silica for H ₂ O ₂ determination. <i>Molecular Crystals and Liquid Crystals</i> , 2021, 718, 42-49.	0.4	1
67	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
68	Terminal Amines, Nitriles, and Olefins through Catalytic CO Hydrogenation in the Presence of Ammonia. <i>ACS Catalysis</i> , 0, , 14977-14985.	5.5	1
69	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
70	Study of Porous Silicon Nanostructures as Hydrogen Reservoirs.. <i>ChemInform</i> , 2006, 37, no.	0.1	0
71	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
72	Surface-Assisted Laser Desorption Ionization of Low Molecular Organic Substances on Oxidized Porous Silicon. , 2009, , 45-50.		0