

Volodymyr Zaitsev

List of Publications by Year in descending order

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106
papers

2,088
citations

257101

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all docs

111
docs citations

111
times ranked

3296
citing authors

#	ARTICLE	IF	CITATIONS
1	Rational design of large flat nitrogen-doped graphene oxide quantum dots with green-luminescence suitable for biomedical applications. RSC Advances, 2022, 12, 14342-14355.	1.7	3
2	Rationally designed dipicolinate-functionalized silica for highly efficient recovery of rare-earth elements from e-waste. Journal of Hazardous Materials, 2021, 408, 124976.	6.5	16
3	Mesoporous Silica With Covalently Immobilized Anthracene As Adsorbent For SPE Recovery Of PAHs Pollutants From Highly Lipidic Solutions. Methods and Objects of Chemical Analysis, 2021, 16, 5-14.	0.4	0
4	Advice on assistance and protection provided by the Scientific Advisory Board of the Organisation for the Prohibition of Chemical Weapons: Part 3. On medical care and treatment of injuries from sulfur mustard. Toxicology, 2021, 463, 152967.	2.0	7
5	Reusable hydroxamate immobilized silica adsorbent for dispersive solid phase extraction and separation of rare earth metal ions. Separation and Purification Technology, 2020, 231, 115934.	3.9	25
6	Determination of Phthalate Esters in Water and Liquid Pharmaceutical Samples by Dispersive Liquid-Liquid Microextraction (DLLME) and Gas Chromatography with Flame Ionization Detection (GC-FID). Analytical Letters, 2020, 53, 1536-1553.	1.0	10
7	Hybrid suspension of nanodiamonds-nanosilica/titania in cytotoxicity tests on cancer cell lines. Inorganic Chemistry Communication, 2020, 111, 107673.	1.8	5
8	Graphene oxide quantum dots immobilized on mesoporous silica: preparation, characterization and electroanalytical application. RSC Advances, 2020, 10, 31305-31315.	1.7	11
9	Benefit of porous silica nanoreactor in preparation of fluorescence carbon dots from citric acid. Nano Express, 2020, 1, 010011.	1.2	8
10	Excitation-Independent Blue-Emitting Carbon Dots from Mesoporous Aminosilica Nanoreactor for Bioanalytical Application. ACS Applied Nano Materials, 2020, 3, 3652-3664.	2.4	16
11	Influence of competitive eluting agents on REEs recovery from silica gel adsorbent with immobilized aminodiphosphonic acid. Journal of Environmental Chemical Engineering, 2020, 8, 103883.	3.3	15
12	Superior Fischer-Tropsch performance of uniform cobalt nanoparticles deposited into mesoporous SiC. Journal of Catalysis, 2020, 383, 297-303.	3.1	13
13	Preparation and characterization of organofunctionalized bentonite clay bearing aminophosphonic groups in heavy metal uptake. Journal of Environmental Chemical Engineering, 2019, 7, 103434.	3.3	9
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	Advice on assistance and protection provided by the Scientific Advisory Board of the Organisation for the Prohibition of Chemical Weapons: Part 1. On medical care and treatment of injuries from nerve agents. Toxicology, 2019, 415, 56-69.	2.0	25
16	Advice on assistance and protection by the Scientific Advisory Board of the Organisation for the Prohibition of Chemical Weapons: Part 2. On preventing and treating health effects from acute, prolonged, and repeated nerve agent exposure, and the identification of medical countermeasures able to reduce or eliminate the longer term health effects of nerve agents. Toxicology, 2019, 413, 13-23.	2.0	23
17	Advice on chemical weapons sample stability and storage provided by the Scientific Advisory Board of the Organisation for the Prohibition of Chemical Weapons to increase investigative capabilities worldwide. Talanta, 2018, 188, 808-832.	2.9	17
18	Advice from the Scientific Advisory Board of the Organisation for the Prohibition of Chemical Weapons on riot control agents in connection to the Chemical Weapons Convention. RSC Advances, 2018, 8, 41731-41739.	1.7	13

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19	Innovative technologies for chemical security. <i>Pure and Applied Chemistry</i> , 2018, 90, 1527-1557.	0.9	6
20	Advice from the Scientific Advisory Board of the Organisation for the Prohibition of Chemical Weapons on isotopically labelled chemicals and stereoisomers in relation to the Chemical Weapons Convention. <i>Pure and Applied Chemistry</i> , 2018, 90, 1647-1670.	0.9	15
21	Bentonites With Immobilized Organophosphorus Complexing Ligands As Adsorbents For The Removal Of Toxic Metals From Natural Water. <i>Methods and Objects of Chemical Analysis</i> , 2018, 13, 35-43.	0.4	1
22	Separation of Parabens by the RP HPLC on Cyanopropyl Chromatographic Phases from Different Manufacturers, using a Mobile Phase with High Water Content. <i>Methods and Objects of Chemical Analysis</i> , 2018, 13, 79-84.	0.4	0
23	Recovery Of Lanthanide Ions On Silica Adsorbent With Covalently Immobilized Derivative Of 2,6-Pyridinedicarboxylic Acid. <i>Methods and Objects of Chemical Analysis</i> , 2018, , 192-199.	0.4	0
24	Layered double hydroxides as the next generation inorganic anion exchangers: Synthetic methods versus applicability. <i>Advances in Colloid and Interface Science</i> , 2017, 245, 62-80.	7.0	165
25	Headspace gas chromatographic determination of 1,4-dioxane with adsorption preconcentration on silica modified with Î»-carrageenan. <i>Journal of Analytical Chemistry</i> , 2017, 72, 295-302.	0.4	1
26	Nanocomposites based on magnetite modified by chelate groups for a solid-phase concentration of heavy-metal ions from aqueous solutions. <i>Protection of Metals and Physical Chemistry of Surfaces</i> , 2017, 53, 675-684.	0.3	7
27	Solid-phase luminescence determination of tetracycline in bottled water using chemically modified silica. <i>Journal of Analytical Chemistry</i> , 2017, 72, 724-733.	0.4	7
28	In Memory Of Professor Yuriy Kholin. <i>Methods and Objects of Chemical Analysis</i> , 2017, 12, 99-102.	0.4	0
29	Mesoporous silicon carbide via nanocasting of LudoxÂ® xerogel. <i>RSC Advances</i> , 2016, 6, 108828-108839.	1.7	5
30	Affinity of Glycanâ€Modified Nanodiamonds towards Lectins and Uropathogenic <i>Escherichia Coli</i> . <i>ChemNanoMat</i> , 2016, 2, 307-314.	1.5	16
31	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
32	Plasmonic photothermal cancer therapy with gold nanorods/reduced graphene oxide core/shell nanocomposites. <i>RSC Advances</i> , 2016, 6, 1600-1610.	1.7	70
33	Investigation of the local environment of aminodiphosphonic acid covalently immobilized on silica surface by XPS and solid-state ³¹ P NMR. <i>Himia, Fizika Ta Tehnologija Poverhni</i> , 2016, 7, 20-30.	0.2	1
34	Amperometric Biosensor for Choline Based on Gold Screenâ€Printed Electrode Modified with Electrochemicallyâ€Deposited Silica Biocomposite. <i>Electroanalysis</i> , 2015, 27, 1685-1692.	1.5	22
35	Selective Antimicrobial and Antibiofilm Disrupting Properties of Functionalized Diamond Nanoparticles Against <i>Escherichia coli</i> and <i>Staphylococcus aureus</i> . <i>Particle and Particle Systems Characterization</i> , 2015, 32, 822-830.	1.2	33
36	Dispersive liquid-phase microextraction for determination of phthalates in water. <i>Journal of Water Chemistry and Technology</i> , 2015, 37, 78-84.	0.2	5

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37	Chromatographic determination of pesticide 2,4-D in water bodies. <i>Journal of Water Chemistry and Technology</i> , 2015, 37, 295-298.	0.2	4
38	Antimicrobial activity of menthol modified nanodiamond particles. <i>Diamond and Related Materials</i> , 2015, 57, 2-8.	1.8	44
39	Plasmon waveguide resonance for sensing glycan-lectin interactions. <i>Analytica Chimica Acta</i> , 2015, 873, 71-79.	2.6	15
40	Infrared Photothermal Therapy with Water Soluble Reduced Graphene Oxide: Shape, Size and Reduction Degree Effects. <i>Nano LIFE</i> , 2015, 05, 1540002.	0.6	15
41	Toward Multifunctional "Clickable" Diamond Nanoparticles. <i>Langmuir</i> , 2015, 31, 3926-3933.	1.6	30
42	Reduced graphene oxide nanosheets decorated with AuPd bimetallic nanoparticles: a multifunctional material for photothermal therapy of cancer cells. <i>Journal of Materials Chemistry B</i> , 2015, 3, 8366-8374.	2.9	29
43	Highly effective photodynamic inactivation of <i>E. coli</i> using gold nanorods/SiO ₂ core-shell nanostructures with embedded verteporfin. <i>Chemical Communications</i> , 2015, 51, 16365-16368.	2.2	25
44	Inhibition of type 1 fimbriae-mediated <i>Escherichia coli</i> adhesion and biofilm formation by trimeric cluster thiomannosides conjugated to diamond nanoparticles. <i>Nanoscale</i> , 2015, 7, 2325-2335.	2.8	52
45	Cobalt phthalocyanine tetracarboxylic acid modified reduced graphene oxide: a sensitive matrix for the electrocatalytic detection of peroxyxynitrite and hydrogen peroxide. <i>RSC Advances</i> , 2015, 5, 1474-1484.	1.7	70
46	Preconcentration Of Aliphatic Aldehydes C1-C5 As O-(2,3,4,5,6- Pentafuorobenzyl)Hydroxylamine Derivatives By Dispersive Liquid-Phase Microextraction. <i>Methods and Objects of Chemical Analysis</i> , 2015, 10, 113-118.	0.4	2
47	HPLC Separation Of Bioactive Components Of Anti-Inflammatory Syrup On Stationary Phases With Embedded Polar Groups. <i>Methods and Objects of Chemical Analysis</i> , 2015, 10, 171-177.	0.4	0
48	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
49	Highly-effective liquid chromatographic determination of 2,4,6-trinitrophenol in surface waters after its selective solid phase extraction. <i>Journal of Water Chemistry and Technology</i> , 2014, 36, 273-279.	0.2	6
50	Capillary and dispersive microextraction of diphenylketones. <i>Journal of Water Chemistry and Technology</i> , 2014, 36, 217-224.	0.2	2
51	Hybrid silica-polyelectrolyte films as optical sensing materials for tetracycline antibiotics. <i>Sensors and Actuators B: Chemical</i> , 2014, 200, 198-205.	4.0	18
52	Insulin loaded iron magnetic nanoparticle-graphene oxide composites: synthesis, characterization and application for in vivo delivery of insulin. <i>RSC Advances</i> , 2014, 4, 865-875.	1.7	33
53	Diamond nanowires modified with poly[3-(pyrrolyl)carboxylic acid] for the immobilization of histidine-tagged peptides. <i>Analyst, The</i> , 2014, 139, 4343.	1.7	8
54	Decoration of silicon nanostructures with copper particles for simultaneous selective capture and mass spectrometry detection of His-tagged model peptide. <i>Analyst, The</i> , 2014, 139, 5155-5163.	1.7	9

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55	An impedimetric immunosensor based on diamond nanowires decorated with nickel nanoparticles. <i>Analyst, The</i> , 2014, 139, 1726.	1.7	19
56	Preconcentration by solid-phase microextraction. <i>Journal of Analytical Chemistry</i> , 2014, 69, 715-727.	0.4	21
57	Characterization of MCM-41 with Immobilized Bi-functional SH/SO ₃ H Layer. <i>Journal of Inorganic and Organometallic Polymers and Materials</i> , 2013, 23, 1409-1416.	1.9	1
58	Phenylboronic-Acid-Modified Nanoparticles: Potential Antiviral Therapeutics. <i>ACS Applied Materials & Interfaces</i> , 2013, 5, 12488-12498.	4.0	71
59	Iron oxide magnetic nanoparticles with versatile surface functions based on dopamine anchors. <i>Nanoscale</i> , 2013, 5, 2692.	2.8	114
60	Electrophoretic deposition of macroporous carbon nanotube assemblies for electrochemical applications. <i>Carbon</i> , 2013, 53, 302-312.	5.4	14
61	Chromium(VI) removal via reduction-sorption on bi-functional silica adsorbents. <i>Journal of Hazardous Materials</i> , 2013, 250-251, 454-461.	6.5	67
62	Electrophoretically deposited carbon nanotubes as a novel support for electrogenerated silica-dehydrogenase bioelectrodes. <i>Electrochimica Acta</i> , 2012, 83, 359-366.	2.6	20
63	Controlled Electrochemically-Assisted Deposition of Sol-Gel Biocomposite on Electrospun Platinum Nanofibers. <i>Langmuir</i> , 2011, 27, 7140-7147.	1.6	19
64	Studies of Hydrogen Sorption on Mesoporous Carbon Composite Modified with Adsorbed Palladium. <i>NATO Science for Peace and Security Series C: Environmental Security</i> , 2011, , 499-508.	0.1	1
65	Preconcentration of albumin on silica with attached groups of polyoxyethylated isoctyl phenol. <i>Journal of Analytical Chemistry</i> , 2011, 66, 695-700.	0.4	0
66	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
67	Preparation and characterization of catalysts based on oniumsilica-immobilized Keggin acids. <i>Catalysis Today</i> , 2011, 169, 138-149.	2.2	6
68	Direct and indirect atomic absorption methods of determining various forms of iodine in waters and in aqueous solutions. <i>Journal of Water Chemistry and Technology</i> , 2010, 32, 78-89.	0.2	3
69	Oniumsilica-immobilized-Keggin acids: Acidity and catalytic activity for ethyl tert-butyl ether synthesis and acetic acid esterification with ethanol. <i>Journal of Catalysis</i> , 2009, 263, 247-257.	3.1	19
70	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
71	Electroanalytical properties of haemoglobin in silica-nanocomposite films electrogenerated on pyrolytic graphite electrode. <i>Journal of Electroanalytical Chemistry</i> , 2009, 625, 33-39.	1.9	24
72	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

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73	Solid-phase extraction preconcentration of 2,4-dichlorophenoxyacetic acid on silica with immobilized polyethoxylated isoctylphenol groups. <i>Journal of Analytical Chemistry</i> , 2009, 64, 110-115.	0.4	2
74	Surface-Assisted Laser Desorption Ionization of Low Molecular Organic Substances on Oxidized Porous Silicon. , 2009, , 45-50.		0
75	Organosilica composite for preconcentration of phenolic compounds from aqueous solutions. <i>Analytical and Bioanalytical Chemistry</i> , 2008, 391, 1335-1342.	1.9	3
76	Recovery of iodide ions from geothermal water with silica with grafted alkylammonium groups. <i>Russian Journal of Applied Chemistry</i> , 2008, 81, 403-406.	0.1	2
77	Conductometric determination of the concentration of acid centers on functionalized materials. <i>Journal of Analytical Chemistry</i> , 2008, 63, 779-786.	0.4	9
78	Bifunctionalized Mesoporous Silicas for Cr(VI) Reduction and Concomitant Cr(III) Immobilization. <i>Environmental Science & Technology</i> , 2008, 42, 6922-6928.	4.6	123
79	Quantitative physicochemical analysis of equilibria on chemically modified silica surfaces. <i>Pure and Applied Chemistry</i> , 2008, 80, 1561-1592.	0.9	21
80	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
81	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
82	The use of low-nuclearity oxoperoxo molybdenum species to achieve high dispersions on zirconia materials. <i>Applied Catalysis A: General</i> , 2007, 325, 140-153.	2.2	9
83	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
84	Recyclable solid catalysts for epoxidation of alkenes: Amino- and oniumsilica-immobilized [HPO ₄ {W ₂ O ₂ (1/4-O ₂) ₂ (O ₂) ₂ }] ₂ anion. <i>Journal of Catalysis</i> , 2007, 249, 1-14.	3.1	34
85	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
86	Organosilicas with Covalently Bonded Groups under Thermochemical Treatment. <i>Chemistry of Materials</i> , 2006, 18, 1981-1987.	3.2	39
87	Acid-base properties of silica-based ion-exchanger having covalently bonded aminodi(methylphosphonic) acid. <i>Analytica Chimica Acta</i> , 2006, 565, 157-162.	2.6	8
88	Preparation, structure and thermal stability of onium- and amino-functionalized silicas for the use as catalysts supports. <i>Journal of Colloid and Interface Science</i> , 2006, 302, 214-229.	5.0	37
89	Probing of chemically modified silica surfaces by solvatochromic pyridinium N-phenolate betaine indicators. <i>Colloid Journal</i> , 2006, 68, 511-517.	0.5	11
90	Study of Porous Silicon Nanostructures as Hydrogen Reservoirs.. <i>ChemInform</i> , 2006, 37, no.	0.1	0

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91	Synthesis, Structure, and Acidic Properties of MCM-41 Functionalized with Phosphate and Titanium Phosphate Groups. <i>Journal of Physical Chemistry B</i> , 2005, 109, 13948-13956.	1.2	39
92	Properties of silicas chemically modified by monodentate amines studied by conductometry. <i>Russian Chemical Bulletin</i> , 2005, 54, 1842-1846.	0.4	8
93	Study of Porous Silicon Nanostructures as Hydrogen Reservoirs. <i>Journal of Physical Chemistry B</i> , 2005, 109, 19711-19718.	1.2	80
94	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
95	Kinetic Determination of Iodide by the Sandell-Kolthoff Reaction Using Diphenylamine-4-Sulfonic Acid. <i>Journal of Analytical Chemistry</i> , 2004, 59, 491-494.	0.4	9
96	Modeling of heavy metal ion binding by phosphoric acid activated carbon. <i>Applied Surface Science</i> , 2004, 221, 421-429.	3.1	50
97	Heme proteins sequestered in silica sol-gels using surfactants feature direct electron transfer and peroxidase activity. <i>Electrochemistry Communications</i> , 2004, 6, 205-209.	2.3	59
98	Low-Temperature Fluorination of Silica by a Nonaqueous Solution of NH ₄ F. <i>Journal of Physical Chemistry A</i> , 2003, 107, 4497-4505.	1.1	21
99	Synthesis and structure of grafted layer of silicas modified with alkanesulfonic acid. <i>Russian Chemical Bulletin</i> , 2003, 52, 364-369.	0.4	6
100	Title is missing!. <i>Theoretical and Experimental Chemistry</i> , 2003, 39, 195-200.	0.2	1
101	Silica chemically modified with N-benzoyl-N-phenylhydroxylamine in chemisorption of hydrogen and metal ions. <i>Analytica Chimica Acta</i> , 1999, 379, 11-21.	2.6	15
102	Evaluation of bonded layer disorder from thermodynamic behavior of methylaminopropyl groups immobilized on sio ₂ . <i>Macromolecular Symposia</i> , 1998, 136, 99-102.	0.4	1
103	Kinetics of the reaction of cobalt(II) phthalocyanine complexes with functionalized organosilicas. <i>Theoretical and Experimental Chemistry</i> , 1995, 31, 249-252.	0.2	0
104	Immobilization of large low-charge anions for the preparation of selective caesium adsorbents. <i>Analytica Chimica Acta</i> , 1992, 256, 323-329.	2.6	1
105	Covalent immobilization of immunoglobulin on a wafer surface for immunosensor bioselective matrix construction. <i>Analytica Chimica Acta</i> , 1991, 252, 1-6.	2.6	11
106	Extraction of PdCl ₂ and Na ₂ PdCl ₄ with ?-(8-Methylquinoline)-Aminopropyl-aerosil. <i>Theoretical and Experimental Chemistry</i> , 1984, 19, 583-587.	0.2	1