

Vladimir V Vinogradov

List of Publications by Year in descending order

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Version: 2024-02-01

111
papers

2,409
citations

236925

25
h-index

254184

43
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117
all docs

117
docs citations

117
times ranked

3290
citing authors

#	ARTICLE	IF	CITATIONS
1	Hierarchical Porous Magnetite Structures: From Nanoparticle Assembly to Monolithic Aerogels. <i>Journal of Colloid and Interface Science</i> , 2022, 615, 206-214.	9.4	2
2	DiZyme: Open-Access Expandable Resource for Quantitative Prediction of Nanozyme Catalytic Activity. <i>Small</i> , 2022, 18, e2105673.	10.0	21
3	Inverse Material Search and Synthesis Verification by Hand Drawings via Transfer Learning and Contour Detection. <i>Small Methods</i> , 2022, , 2101619.	8.6	1
4	Artificial intelligence to bring nanomedicine to life. <i>Advanced Drug Delivery Reviews</i> , 2022, 184, 114194.	13.7	39
5	Reprogrammable Soft Swimmers for Minimally Invasive Thrombus Extraction. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 23896-23908.	8.0	11
6	Organ-specific toxicity of magnetic iron oxide-based nanoparticles. <i>Nanotoxicology</i> , 2021, 15, 167-204.	3.0	45
7	Shape anisotropic magnetic thrombolytic actuators: synthesis and systematic behavior study. <i>Journal of Materials Chemistry B</i> , 2021, 9, 4941-4955.	5.8	6
8	Facile Synthesis of a Library of Hollow Metallic Particles through the Galvanic Replacement of Liquid Gallium. <i>Chemistry of Materials</i> , 2021, 33, 1571-1580.	6.7	27
9	Magnetically Controlled Carbonate Nanocomposite with Ciprofloxacin for Biofilm Eradication. <i>International Journal of Molecular Sciences</i> , 2021, 22, 6187.	4.1	9
10	Single Particle Color Switching by Laser-Induced Deformation of Liquid Metal-derived Microcapsules. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 7738-7744.	4.6	8
11	Large MOFs: synthesis strategies and applications where size matters. <i>Journal of Materials Chemistry A</i> , 2021, 9, 25258-25271.	10.3	20
12	Biinspired <i>In Vitro</i> Brain Vasculature Model for Nanomedicine Testing Based on Decellularized Spinach Leaves. <i>Nano Letters</i> , 2021, 21, 9853-9861.	9.1	6
13	Room-temperature fabrication of magnetite-boehmite sol-gel composites for heavy metal ions removal. <i>Arabian Journal of Chemistry</i> , 2020, 13, 1933-1944.	4.9	25
14	Magnetic Field-Mediated Control of Whole-Cell Biocatalysis. <i>Journal of Physical Chemistry Letters</i> , 2020, 11, 8989-8996.	4.6	7
15	Bioreactivity of decellularized animal, plant, and fungal scaffolds: perspectives for medical applications. <i>Journal of Materials Chemistry B</i> , 2020, 8, 10010-10022.	5.8	21
16	One-pot synthesis of template-free hollow anisotropic CaCO ₃ structures: towards inorganic shape-mimicking drug delivery systems. <i>Chemical Communications</i> , 2020, 56, 11969-11972.	4.1	14
17	Nanoparticle-Based Approaches towards the Treatment of Atherosclerosis. <i>Pharmaceutics</i> , 2020, 12, 1056.	4.5	24
18	Cationic Magnetite Nanoparticles for Increasing siRNA Hybridization Rates. <i>Nanomaterials</i> , 2020, 10, 1018.	4.1	5

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19	Magnetic polyelectrolyte-based composites with dual anticoagulant and thrombolytic properties: towards optimal composition. <i>Journal of Sol-Gel Science and Technology</i> , 2020, 95, 771-782.	2.4	7
20	Test-System for Bacteria Sensing Based on Peroxidase-Like Activity of Inkjet-Printed Magnetite Nanoparticles. <i>Nanomaterials</i> , 2020, 10, 313.	4.1	11
21	Alumina Nanoparticles for Firefighting and Fire Prevention. <i>ACS Applied Nano Materials</i> , 2020, 3, 4386-4393.	5.0	20
22	Effects of Metal Oxide Nanoparticles on Toll-Like Receptor mRNAs in Human Monocytes. <i>Nanomaterials</i> , 2020, 10, 127.	4.1	22
23	<p>Magnetically controlled protein nanocontainers as a drug depot for the hemostatic agent<p>. <i>Nanotechnology, Science and Applications</i> , 2019, Volume 12, 11-23.	4.6	8
24	Sol-gel composites based on alumina and ferria for cardiovascular diseases treatment. , 2019, , 149-179.		0
25	Synthesis of Plasminâ€Loaded Fe 3 O 4 @CaCO 3 Nanoparticles: Towards Nextâ€Generation Thrombolytic Drugs. <i>ChemNanoMat</i> , 2019, 5, 1267-1271.	2.8	11
26	Biocide-conjugated magnetite nanoparticles as an advanced platform for biofilm treatment. <i>Therapeutic Delivery</i> , 2019, 10, 241-250.	2.2	13
27	Preclinical Evaluation and Clinical Translation of Magnetite-Based Nanomedicines. <i>Journal of Drug Delivery Science and Technology</i> , 2019, 54, 101282.	3.0	29
28	Toxicity Patterns of Clinically Relevant Metal Oxide Nanoparticles. <i>ACS Applied Bio Materials</i> , 2019, 2, 4427-4435.	4.6	21
29	Application of Immobilized Enzymes in Food Industry. <i>Journal of Agricultural and Food Chemistry</i> , 2019, 67, 11553-11567.	5.2	114
30	Upconversion metal (Zr, Hf, and Ta) oxide aerogels. <i>Chemical Communications</i> , 2019, 55, 8174-8177.	4.1	11
31	Optical interference-based sensors for the visual detection of nano-scale objects. <i>Nanoscale</i> , 2019, 11, 6343-6351.	5.6	2
32	Sol-gel derived boehmite nanostructures is a versatile nanoplatfrom for biomedical applications. <i>Scientific Reports</i> , 2019, 9, 1176.	3.3	25
33	Metal Oxide Nanoparticles in Therapeutic Regulation of Macrophage Functions. <i>Nanomaterials</i> , 2019, 9, 1631.	4.1	50
34	Composites based on heparin and MIL-101(Fe): the drug releasing depot for anticoagulant therapy and advanced medical nanofabrication. <i>Journal of Materials Chemistry B</i> , 2018, 6, 2450-2459.	5.8	34
35	Thrombin@Fe3O4 nanoparticles for use as a hemostatic agent in internal bleeding. <i>Scientific Reports</i> , 2018, 8, 233.	3.3	56
36	Holographic solâ€gel monoliths: optical properties and application for humidity sensing. <i>Royal Society Open Science</i> , 2018, 5, 172465.	2.4	4

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37	Metal-€Dielectric Nanocavity for Real-Time Tracing Molecular Events with Temperature Feedback. Laser and Photonics Reviews, 2018, 12, 1700227.	8.7	45
38	Stimuli-Responsive Mechanoluminescence in Different Matrices. ACS Omega, 2018, 3, 18803-18810.	3.5	11
39	Urokinase-Conjugated Magnetite Nanoparticles as a Promising Drug Delivery System for Targeted Thrombolysis: Synthesis and Preclinical Evaluation. ACS Applied Materials & Interfaces, 2018, 10, 36764-36775.	8.0	82
40	Enzymatic Nanocomposites with Radio Frequency Field-Modulated Activity. ACS Biomaterials Science and Engineering, 2018, 4, 3962-3967.	5.2	18
41	Î±-Amylase@Feria: Magnetic Nanocomposites with Enhanced Thermal Stability for Starch Hydrolysis. Journal of Agricultural and Food Chemistry, 2018, 66, 8054-8060.	5.2	9
42	Magnetite Nanocontainers: Toward Injectable Highly Magnetic Materials for Targeted Drug Delivery. ACS Applied Materials & Interfaces, 2018, 10, 30040-30044.	8.0	20
43	Synthesis of a rare-earth doped hafnia hydrosol: Towards injectable luminescent nanocolloids. Colloids and Surfaces B: Biointerfaces, 2017, 154, 21-26.	5.0	17
44	Alumina nanoparticle-assisted enzyme refolding: A versatile methodology for proteins renaturation. Scientific Reports, 2017, 7, 1458.	3.3	10
45	Inkjet printing of the chromogen free oxidase based optical biosensors. Sensors and Actuators B: Chemical, 2017, 251, 746-752.	7.8	13
46	A pure magnetite hydrogel: synthesis, properties and possible applications. Soft Matter, 2017, 13, 8651-8660.	2.7	32
47	The controllable destabilization route for synthesis of low cytotoxic magnetic nanospheres with photonic response. Scientific Reports, 2017, 7, 11343.	3.3	17
48	Magnetic thrombolytic ceramic nanoparticles. Materials Today: Proceedings, 2017, 4, 6856-6862.	1.8	3
49	Inkjet fabrication of highly efficient luminescent Eu-doped ZrO ₂ nanostructures. Nanoscale, 2017, 9, 13069-13078.	5.6	16
50	Dispersion of TiO ₂ nanoparticles improves burn wound healing and tissue regeneration through specific interaction with blood serum proteins. Scientific Reports, 2017, 7, 15448.	3.3	75
51	Reversible sol-gel medium for enzymatic optical biosensors. Journal of Materials Chemistry B, 2017, 5, 85-91.	5.8	15
52	Multifunctional sensing with hybrid nanophotonic structures. , 2017, , .		0
53	Protection of enzymes from photodegradation by entrapment within alumina. Colloids and Surfaces B: Biointerfaces, 2016, 146, 731-736.	5.0	14
54	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.	6.7	32

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55	Streptokinase@alumina nanoparticles as a promising thrombolytic colloid with prolonged action. Journal of Materials Chemistry B, 2016, 4, 5921-5928.	5.8	28
56	Collagenase@magnetite: proteolytic composite for magnetically targeted minimally invasive surgery. RSC Advances, 2016, 6, 84354-84362.	3.6	15
57	Inkjet printing of TiO ₂ /AlOOH heterostructures for the formation of interference color images with high optical visibility. Scientific Reports, 2016, 6, 37090.	3.3	15
58	Leach-proof magnetic thrombolytic nanoparticles and coatings of enhanced activity. Scientific Reports, 2016, 6, 28119.	3.3	33
59	Metal-organic frameworks as competitive materials for non-linear optics. Chemical Society Reviews, 2016, 45, 5408-5431.	38.1	225
60	Inkjet Color Printing by Interference Nanostructures. ACS Nano, 2016, 10, 3078-3086.	14.6	82
61	A universal magnetic ferrofluid: Nanomagnetite stable hydrosol with no added dispersants and at neutral pH. Journal of Colloid and Interface Science, 2016, 468, 307-312.	9.4	70
62	Entrapment of Enzymes within Sol-Gel-Derived Magnetite. Chemistry of Materials, 2016, 28, 2248-2253.	6.7	34
63	Silica Foams for Fire Prevention and Firefighting. ACS Applied Materials & Interfaces, 2016, 8, 294-301.	8.0	71
64	Enzyme renaturation to higher activity driven by the sol-gel transition: Carbonic anhydrase. Scientific Reports, 2015, 5, 14411.	3.3	9
65	Sol-Gel Assisted Inkjet Hologram Patterning. Advanced Functional Materials, 2015, 25, 7375-7380.	14.9	33
66	Exceptional thermal stability of industrially-important enzymes by entrapment within nano-boehmite derived alumina. RSC Advances, 2015, 5, 10862-10868.	3.6	25
67	Plasminogen activator entrapped within injectable alumina: a novel approach to thrombolysis treatment. Journal of Sol-Gel Science and Technology, 2015, 73, 501-505.	2.4	13
68	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.	2.2	6
69	Magneto-Optical Modulation on Colloid Cu-Ni Nanocomposite. Journal of Physical Chemistry C, 2015, 119, 1500-1505.	3.1	5
70	Synthesis of Thrombolytic Sol-Gel Coatings: Toward Drug-Entrapped Vascular Grafts. Journal of Medicinal Chemistry, 2015, 58, 6313-6317.	6.4	9
71	Biocomposites for wound-healing based on sol-gel magnetite. RSC Advances, 2015, 5, 82992-82997.	3.6	21
72	Anomalous adsorption of biomolecules on a Zn-based metal-organic framework obtained via a facile room-temperature route. Chemical Communications, 2015, 51, 17764-17767.	4.1	21

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73	Conductive magnetic sol-gel films. Journal of Materials Chemistry C, 2015, 3, 10723-10727.	5.5	2
74	Effect of Acidic Peptization on Formation of Highly Photoactive TiO_2 Films Prepared without Heat Treatment. Journal of the American Ceramic Society, 2014, 97, 290-294.	3.8	20
75	Preparation and physicochemical properties of Nicotinamide@AlOOH biocompatible composite based on sol-gel materials. Nanotechnologies in Russia, 2014, 9, 87-92.	0.7	1
76	Low-temperature approach to forming high-porous Fe(III)-TiO ₂ nanoparticles possessing high photoactivity. Nanotechnologies in Russia, 2014, 9, 15-20.	0.7	5
77	Conductive sol-gel films. Journal of Materials Chemistry C, 2014, 2, 3914.	5.5	13
78	The first depleted heterojunction TiO_2 -MOF-based solar cell. Chemical Communications, 2014, 50, 10210-10213.	4.1	112
79	A synergistic biocomposite for wound healing and decreasing scar size based on sol-gel alumina. RSC Advances, 2014, 4, 60445-60450.	3.6	12
80	A facile sol-gel synthesis of impurity-free nanocrystalline titania. Physical Chemistry Chemical Physics, 2014, 16, 10614-10619.	2.8	6
81	Exceptional thermal stability of therapeutical enzymes entrapped in alumina sol-gel matrices. Journal of Materials Chemistry B, 2014, 2, 2868.	5.8	43
82	Low-temperature sol-gel synthesis of crystalline materials. RSC Advances, 2014, 4, 45903-45919.	3.6	56
83	Synthesis of doped and undoped γ -alumina spherical particles by a new sol-gel hybrid process and their application for methanol dehydration. Journal of Sol-Gel Science and Technology, 2013, 66, 145-154.	2.4	3
84	4-tert-butylcalix[4]arene-based porous structures. Russian Journal of Physical Chemistry A, 2013, 87, 783-788.	0.6	1
85	Synthesis and enhanced thermal stability of albumins@alumina: towards injectable sol-gel materials. Chemical Communications, 2013, 49, 5636.	4.1	46
86	A simple preparation of highly photoactive Fe(III)-doped titania nanocrystals by annealing-free approach. Journal of Alloys and Compounds, 2013, 581, 675-678.	5.5	9
87	The influence of silver particles of different morphologies on the photoactivity of coatings in the Ag-TiO ₂ system. Nanotechnologies in Russia, 2013, 8, 616-620.	0.7	2
88	Sol-gel synthesis, characterization and catalytic activity of γ -alumina with bimodal mesopore distribution. Journal of Sol-Gel Science and Technology, 2013, 68, 155-161.	2.4	4
89	A new approach to apply crystalline titania hydrosols onto a polyester cloth. Mendeleev Communications, 2013, 23, 286-288.	1.6	6
90	New approach to obtaining nanosized pseudobrookite crystals. Nanotechnologies in Russia, 2012, 7, 452-456.	0.7	2

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91	High-Induced Photo-emf and Photocatalytic Properties of Nanostructured TiO ₂ -Based Powders and Films Obtained by the Sol–Gel Template Synthesis. Journal of Inorganic and Organometallic Polymers and Materials, 2012, 22, 1034-1040.	3.7	1
92	Low-Temperature Sol-Gel Synthesis, Spectroscopic Properties and Conductivity of the Thin Films of TiO ₂ –CuO Nanoparticles. Mendeleev Communications, 2012, 22, 307-309.	1.6	1
93	Low-temperature sol–gel synthesis of crystalline CoTiO ₃ coatings without annealing. Journal of Alloys and Compounds, 2012, 543, 172-175.	5.5	15
94	Development of the low-temperature sol-gel synthesis of TiO ₂ to provide self-cleaning effect on the textile materials. Nanotechnologies in Russia, 2012, 7, 604-614.	0.7	18
95	Soft-chemistry synthesis of highly active TiO ₂ -CuO heterostructures having high photoactivity and magnetic properties. Nanotechnologies in Russia, 2012, 7, 599-603.	0.7	3
96	Low-temperature sol–gel synthesis photochromic Cu/TiO ₂ films. Journal of Alloys and Compounds, 2012, 515, 1-3.	5.5	20
97	Low-temperature sol–gel synthesis of nanosized pseudobrookite crystals without heat treatment. Journal of Alloys and Compounds, 2012, 535, 102-107.	5.5	14
98	Microporous structures based on 4-tert-butylcalix[4]arene. Doklady Physical Chemistry, 2012, 447, 210-212.	0.9	0
99	Sol-gel synthesis of photochromic films via silver–titania nanocomposites prepared without heat treatment. Mendeleev Communications, 2012, 22, 27-28.	1.6	13
100	Synthesis of mesoporous γ -alumina by sol–gel process and its characterization and application for sorption of Pu(IV). Journal of Sol-Gel Science and Technology, 2012, 61, 192-196.	2.4	8
101	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.	1.5	2
102	Synthesis of organized mesoporous γ -alumina templated with polymer–colloidal complex. Journal of Sol-Gel Science and Technology, 2011, 60, 6-10.	2.4	8
103	Surfactant-Assisted Sol-Gel Synthesis of TiO ₂ with Uniform Particle Size Distribution. International Journal of Inorganic Chemistry, 2011, 2011, 1-8.	0.6	22
104	Effect of nature of templates on formation mechanism of aluminum oxide mesoporous structure. Colloid Journal, 2010, 72, 163-167.	1.3	1
105	Study of surfaces of TiO ₂ -based nanostructured films obtained under action of various templates. Protection of Metals and Physical Chemistry of Surfaces, 2010, 46, 555-558.	1.1	2
106	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.	1.1	4
107	Superhydrophobic effect of hybrid organo-inorganic materials. Journal of Sol-Gel Science and Technology, 2010, 53, 312-315.	2.4	11
108	Sol–gel synthesis, characterization and catalytic activity of mesoporous γ -alumina prepared from boehmite sol by different methods. Journal of Sol-Gel Science and Technology, 2010, 56, 333-339.	2.4	30

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109	Application of polyethyleneimine to obtain a mesoporous CuO–Al ₂ O ₃ composite. Mendelev Communications, 2009, 19, 222-223.	1.6	9
110	Sol–gel synthesis of titanium dioxide-based films possessing highly ordered channel structures. Mendelev Communications, 2009, 19, 340-341.	1.6	6
111	Mechano-bactericidal anisotropic particles for oral biofilm treatment. Journal of Materials Chemistry B, 0, , .	5.8	1