Vladimir V Vinogradov

List of Publications by Year
in descending order

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111 papers	2,409 citations	236925 25 h-index	254184 43 g-index
117 all docs	117 docs citations	117 times ranked	3290 citing authors

#	Article	IF	Citations
1	Metalâ€“organic frameworks as competitive materials for non-linear optics. Chemical Society Reviews, 2016, 45, 5408-5431.	38.1	225
2	Application of Immobilized Enzymes in Food Industry. Journal of Agricultural and Food Chemistry, 2019, 67, 11553-11567.	5.2	114
3	The first depleted heterojunction TiO₂â€“MOF-based solar cell. Chemical Communications, 2014, 50, 10210-10213.	4.1	112
4	Inkjet Color Printing by Interference Nanostructures. ACS Nano, 2016, 10, 3078-3086.	14.6	82
5	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
6	Dispersion of TiO2 nanoparticles improves burn wound healing and tissue regeneration through specific interaction with blood serum proteins. Scientific Reports, 2017, 7, 15448.	3.3	75
7	Silica Foams for Fire Prevention and Firefighting. ACS Applied Materials & Interfaces, 2016, 8, 294-301.	8.0	71
8	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
9	Low-temperature solâ€“gel synthesis of crystalline materials. RSC Advances, 2014, 4, 45903-45919.	3.6	56
10	Thrombin@Fe3O4 nanoparticles for use as a hemostatic agent in internal bleeding. Scientific Reports, 2018, 8, 233.	3.3	56
11	Metal Oxide Nanoparticles in Therapeutic Regulation of Macrophage Functions. Nanomaterials, 2019, 9, 1631.	4.1	50
12	Synthesis and enhanced thermal stability of albumins@alumina: towards injectable solâ€“gel materials. Chemical Communications, 2013, 49, 5636.	4.1	46
13	Metalâ€Dielectric Nanocavity for Realâ€Time Tracing Molecular Events with Temperature Feedback. Laser and Photonics Reviews, 2018, 12, 1700227.	8.7	45
14	Organ-specific toxicity of magnetic iron oxide-based nanoparticles. Nanotoxicology, 2021, 15, 167-204.	3.0	45
15	Exceptional thermal stability of therapeutical enzymes entrapped in alumina solâ€“gel matrices. Journal of Materials Chemistry B, 2014, 2, 2868.	5.8	43
16	Artificial intelligence to bring nanomedicine to life. Advanced Drug Delivery Reviews, 2022, 184, 114194.	13.7	39
17	Entrapment of Enzymes within Solâ€“Gel-Derived Magnetite. Chemistry of Materials, 2016, 28, 2248-2253.	6.7	34
18	Composites based on heparin and MIL-101(Fe): the drug releasing depot for anticoagulant therapy and advanced medical nanofabrication. Journal of Materials Chemistry B, 2018, 6, 2450-2459.	5.8	34

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19	Solâ€“Gel Assisted Inkjet Hologram Patterning. Advanced Functional Materials, 2015, 25, 7375-7380.	14.9	33
20	Leach-proof magnetic thrombolytic nanoparticles and coatings of enhanced activity. Scientific Reports, 2016, 6, 28119.	3.3	33
21	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
22	A pure magnetite hydrogel: synthesis, properties and possible applications. Soft Matter, 2017, 13, 8651-8660.	2.7	32
23	Solâ€“gel synthesis, characterization and catalytic activity of mesoporous Î³-alumina prepared from boehmite sol by different methods. Journal of Sol-Gel Science and Technology, 2010, 56, 333-339.	2.4	30
24	Preclinical Evaluation and Clinical Translation of Magnetite-Based Nanomedicines. Journal of Drug Delivery Science and Technology, 2019, 54, 101282.	3.0	29
25	Streptokinase@alumina nanoparticles as a promising thrombolytic colloid with prolonged action. Journal of Materials Chemistry B, 2016, 4, 5921-5928.	5.8	28
26	Facile Synthesis of a Library of Hollow Metallic Particles through the Galvanic Replacement of Liquid Gallium. Chemistry of Materials, 2021, 33, 1571-1580.	6.7	27
27	Exceptional thermal stability of industrially-important enzymes by entrapment within nano-boehmite derived alumina. RSC Advances, 2015, 5, 10862-10868.	3.6	25
28	Sol-gel derived boehmite nanostructures is a versatile nanoplatform for biomedical applications. Scientific Reports, 2019, 9, 1176.	3.3	25
29	Room-temperature fabrication of magnetite-boehmite sol-gel composites for heavy metal ions removal. Arabian Journal of Chemistry, 2020, 13, 1933-1944.	4.9	25
30	Nanoparticle-Based Approaches towards the Treatment of Atherosclerosis. Pharmaceutics, 2020, 12, 1056.	4.5	24
31	Surfactant-Assisted Sol-Gel Synthesis of TiO₂ with Uniform Particle Size Distribution. International Journal of Inorganic Chemistry, 2011, 2011, 1-8.	0.6	22
32	Effects of Metal Oxide Nanoparticles on Toll-Like Receptor mRNAs in Human Monocytes. Nanomaterials, 2020, 10, 127.	4.1	22
33	Biocomposites for wound-healing based on solâ€“gel magnetite. RSC Advances, 2015, 5, 82992-82997.	3.6	21
34	Anomalous adsorption of biomolecules on a Zn-based metalâ€“organic framework obtained via a facile room-temperature route. Chemical Communications, 2015, 51, 17764-17767.	4.1	21
35	Toxicity Patterns of Clinically Relevant Metal Oxide Nanoparticles. ACS Applied Bio Materials, 2019, 2, 4427-4435.	4.6	21
36	Bioreactivity of decellularized animal, plant, and fungal scaffolds: perspectives for medical applications. Journal of Materials Chemistry B, 2020, 8, 10010-10022.	5.8	21

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37	DiZyme: Openâ€Access Expandable Resource for Quantitative Prediction of Nanozyme Catalytic Activity. Small, 2022, 18, e2105673.	10.0	21
38	Low-temperature solâ€“gel synthesis photochromic Cu/TiO2 films. Journal of Alloys and Compounds, 2012, 515, 1-3.	5.5	20
39	Effect of Acidic Peptization on Formation of Highly Photoactive <scp><scp>TiO</scp></scp>₂ Films Prepared without Heat Treatment. Journal of the American Ceramic Society, 2014, 97, 290-294.	3.8	20
40	Magnetite Nanocontainers: Toward Injectable Highly Magnetic Materials for Targeted Drug Delivery. ACS Applied Materials & Interfaces, 2018, 10, 30040-30044.	8.0	20
41	Alumina Nanoparticles for Firefighting and Fire Prevention. ACS Applied Nano Materials, 2020, 3, 4386-4393.	5.0	20
42	Large MOFs: synthesis strategies and applications where size matters. Journal of Materials Chemistry A, 2021, 9, 25258-25271.	10.3	20
43	Development of the low-temperature sol-gel synthesis of TiO2 to provide self-cleaning effect on the textile materials. Nanotechnologies in Russia, 2012, 7, 604-614.	0.7	18
44	Enzymatic Nanocomposites with Radio Frequency Field-Modulated Activity. ACS Biomaterials Science and Engineering, 2018, 4, 3962-3967.	5.2	18
45	Synthesis of a rare-earth doped hafnia hydrosol: Towards injectable luminescent nanocolloids. Colloids and Surfaces B: Biointerfaces, 2017, 154, 21-26.	5.0	17
46	The controllable destabilization route for synthesis of low cytotoxic magnetic nanospheres with photonic response. Scientific Reports, 2017, 7, 11343.	3.3	17
47	Inkjet fabrication of highly efficient luminescent Eu-doped ZrO₂ nanostructures. Nanoscale, 2017, 9, 13069-13078.	5.6	16
48	Low-temperature solâ€“gel synthesis of crystalline CoTiO3 coatings without annealing. Journal of Alloys and Compounds, 2012, 543, 172-175.	5.5	15
49	Collagenase@magnetite: proteolytic composite for magnetically targeted minimally invasive surgery. RSC Advances, 2016, 6, 84354-84362.	3.6	15
50	Inkjet printing of TiO2/AlOOH heterostructures for the formation of interference color images with high optical visibility. Scientific Reports, 2016, 6, 37090.	3.3	15
51	Reversible solâ€“gelâ€“sol medium for enzymatic optical biosensors. Journal of Materials Chemistry B, 2017, 5, 85-91.	5.8	15
52	Low-temperature solâ€“gel synthesis of nanosized pseudobrookite crystals without heat treatment. Journal of Alloys and Compounds, 2012, 535, 102-107.	5.5	14
53	Protection of enzymes from photodegradation by entrapment within alumina. Colloids and Surfaces B: Biointerfaces, 2016, 146, 731-736.	5.0	14
54	One-pot synthesis of template-free hollow anisotropic CaCO₃ structures: towards inorganic shape-mimicking drug delivery systems. Chemical Communications, 2020, 56, 11969-11972.	4.1	14

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55	Sol-gel synthesis of photochromic films via silverâ€“titania nanocomposites prepared without heat treatment. Mendeleev Communications, 2012, 22, 27-28.	1.6	13
56	Conductive solâ€“gel films. Journal of Materials Chemistry C, 2014, 2, 3914.	5.5	13
57	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
58	Inkjet printing of the chromogen free oxidase based optical biosensors. Sensors and Actuators B: Chemical, 2017, 251, 746-752.	7.8	13
59	Biocide-conjugated magnetite nanoparticles as an advanced platform for biofilm treatment. Therapeutic Delivery, 2019, 10, 241-250.	2.2	13
60	A synergistic biocomposite for wound healing and decreasing scar size based on solâ€“gel alumina. RSC Advances, 2014, 4, 60445-60450.	3.6	12
61	Superhydrofobic effect of hybrid organo-inorganic materials. Journal of Sol-Gel Science and Technology, 2010, 53, 312-315.	2.4	11
62	Stimuli-Responsive Mechanoluminescence in Different Matrices. ACS Omega, 2018, 3, 18803-18810.	3.5	11
63	Synthesis of Plasminâ€Loaded Fe 3 O 4 @CaCO 3 Nanoparticles: Towards Nextâ€Generation Thrombolytic Drugs. ChemNanoMat, 2019, 5, 1267-1271.	2.8	11
64	Upconversion metal (Zr, Hf, and Ta) oxide aerogels. Chemical Communications, 2019, 55, 8174-8177.	4.1	11
65	Test-System for Bacteria Sensing Based on Peroxidase-Like Activity of Inkjet-Printed Magnetite Nanoparticles. Nanomaterials, 2020, 10, 313.	4.1	11
66	Reprogrammable Soft Swimmers for Minimally Invasive Thrombus Extraction. ACS Applied Materials & Interfaces, 2022, 14, 23896-23908.	8.0	11
67	Alumina nanoparticle-assisted enzyme refolding: A versatile methodology for proteins renaturation. Scientific Reports, 2017, 7, 1458.	3.3	10
68	Application of polyethyleneimine to obtain a mesoporous CuOâ€“Al2O3 composite. Mendeleev Communications, 2009, 19, 222-223.	1.6	9
69	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
70	Enzyme renaturation to higher activity driven by the sol-gel transition: Carbonic anhydrase. Scientific Reports, 2015, 5, 14411.	3.3	9
71	Synthesis of Thrombolytic Solâ€“Gel Coatings: Toward Drug-Entrapped Vascular Grafts. Journal of Medicinal Chemistry, 2015, 58, 6313-6317.	6.4	9
72	Î±-Amylase@Ferria: Magnetic Nanocomposites with Enhanced Thermal Stability for Starch Hydrolysis. Journal of Agricultural and Food Chemistry, 2018, 66, 8054-8060.	5.2	9

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73	Magnetically Controlled Carbonate Nanocomposite with Ciprofloxacin for Biofilm Eradication. International Journal of Molecular Sciences, 2021, 22, 6187.	4.1	9
74	Synthesis of organized mesoporous Î³-alumina templated with polymerâ€“colloidal complex. Journal of Sol-Gel Science and Technology, 2011, 60, 6-10.	2.4	8
75	Synthesis of mesoporous Î³-alumina by solâ€“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
76	Magnetically controlled protein nanocontainers as a drug depot for the hemostatic agent . Nanotechnology, Science and Applications, 2019, Volume 12, 11-23.	4.6	8
77	Single Particle Color Switching by Laser-Induced Deformation of Liquid Metal-derived Microcapsules. Journal of Physical Chemistry Letters, 2021, 12, 7738-7744.	4.6	8
78	Magnetic Field-Mediated Control of Whole-Cell Biocatalysis. Journal of Physical Chemistry Letters, 2020, 11, 8989-8996.	4.6	7
79	Magnetic polyelectrolyte-based composites with dual anticoagulant and thrombolytic properties: towards optimal composition. Journal of Sol-Gel Science and Technology, 2020, 95, 771-782.	2.4	7
80	Solâ€“gel synthesis of titanium dioxide-based films possessing highly ordered channel structures. Mendeleev Communications, 2009, 19, 340-341.	1.6	6
81	A new approach to apply crystalline titania hydrosols onto a polyester cloth. Mendeleev Communications, 2013, 23, 286-288.	1.6	6
82	A facile solâ€“gel synthesis of impurity-free nanocrystalline titania. Physical Chemistry Chemical Physics, 2014, 16, 10614-10619.	2.8	6
83	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
84	Shape anisotropic magnetic thrombolytic actuators: synthesis and systematic behavior study. Journal of Materials Chemistry B, 2021, 9, 4941-4955.	5.8	6
85	Bioinspired In Vitro Brain Vasculature Model for Nanomedicine Testing Based on Decellularized Spinach Leaves. Nano Letters, 2021, 21, 9853-9861.	9.1	6
86	Low-temperature approach to forming high-porous Fe(III)-TiO2 nanoparticles possessing high photoactivity. Nanotechnologies in Russia, 2014, 9, 15-20.	0.7	5
87	Magneto-Optical Modulation on Colloid Cuâ€“Ni Nanocomposite. Journal of Physical Chemistry C, 2015, 119, 1500-1505.	3.1	5
88	Cationic Magnetite Nanoparticles for Increasing siRNA Hybridization Rates. Nanomaterials, 2020, 10, 1018.	4.1	5
89	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
90	Solâ€“gel synthesis, characterization and catalytic activity of Î³-alumina with bimodal mesopore distribution. Journal of Sol-Gel Science and Technology, 2013, 68, 155-161.	2.4	4

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91	Holographic solâ€“gel monoliths: optical properties and application for humidity sensing. Royal Society Open Science, 2018, 5, 172465.	2.4	4
92	Soft-chemistry synthesis of highly active TiO2-CuO heterostructures having high photoactivity and magnetic properties. Nanotechnologies in Russia, 2012, 7, 599-603.	0.7	3
93	Synthesis of doped and undoped Î³-alumina spherical particles by a new solâ€“gel hybrid process and their application for methanol dehydration. Journal of Sol-Gel Science and Technology, 2013, 66, 145-154.	2.4	3
94	Magnetic thrombolytic ceramic nanoparticles. Materials Today: Proceedings, 2017, 4, 6856-6862.	1.8	3
95	Study of surfaces of TiO2-based nanostructured films obtained under action of various templates. Protection of Metals and Physical Chemistry of Surfaces, 2010, 46, 555-558.	1.1	2
96	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
97	New approach to obtaining nanosized pseudobrookite crystals. Nanotechnologies in Russia, 2012, 7, 452-456.	0.7	2
98	The influence of silver particles of different morphologies on the photoactivity of coatings in the Ag-TiO2 system. Nanotechnologies in Russia, 2013, 8, 616-620.	0.7	2
99	Conductive magnetic solâ€“gel films. Journal of Materials Chemistry C, 2015, 3, 10723-10727.	5.5	2
100	Optical interference-based sensors for the visual detection of nano-scale objects. Nanoscale, 2019, 11, 6343-6351.	5.6	2
101	Hierarchical Porous Magnetite Structures: From Nanoparticle Assembly to Monolithic Aerogels. Journal of Colloid and Interface Science, 2022, 615, 206-214.	9.4	2
102	Effect of nature of templates on formation mechanism of aluminum oxide mesoporous structure. Colloid Journal, 2010, 72, 163-167.	1.3	1
103	High-Induced Photo-emf and Photocatalytic Properties of Nanostructured TiO2-Based Powders and Films Obtained by the Solâ€“Gel Template Synthesis. Journal of Inorganic and Organometallic Polymers and Materials, 2012, 22, 1034-1040.	3.7	1
104	Low-Temperature Sol-Gel Synthesis, Spectroscopic Properties and Conductivity of the Thin Films of TiO2â€“CuO Nanoparticles. Mendeleev Communications, 2012, 22, 307-309.	1.6	1
105	4-tert-butylcalix[4]arene-based porous structures. Russian Journal of Physical Chemistry A, 2013, 87, 783-788.	0.6	1
106	Preparation and physicochemical properties of Nicotinamide@AlOOH biocompatible composite based on sol-gel materials. Nanotechnologies in Russia, 2014, 9, 87-92.	0.7	1
107	Inverse Material Search and Synthesis Verification by Hand Drawings via Transfer Learning and Contour Detection. Small Methods, 2022, , 2101619.	8.6	1
108	Mechano-bactericidal anisotropic particles for oral biofilm treatment. Journal of Materials Chemistry B, 0, , .	5.8	1

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109	Microporous structures based on 4-tert-butylcalix[4]arene. Doklady Physical Chemistry, 2012, 447, 210-212.	0.9	0
110	Multifunctional sensing with hybrid nanophotonic structures. , 2017, , .		0
111	Sol-gel composites based on alumina and ferria for cardiovascular diseases treatment. , 2019, , 149-179.		0