

Vladimir M Masalov

List of Publications by Year in descending order

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docs citations

85
times ranked

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citing authors

#	ARTICLE	IF	CITATIONS
1	Opal-based terahertz optical elements fabricated by self-assembly of porous SiO ₂ nanoparticles. Optics Express, 2021, 29, 13764.	1.7	8
2	Terahertz axicon fabricated by direct sedimentation of SiO ₂ colloidal nanoparticles in a mold. , 2021, , .		1
3	Growth of mixed K ₂ Ni _x Co(1- \hat{x})(SO ₄) ₂ · 6H ₂ O crystals for large supercooling without spontaneous crystallization in solution. Materials Research Express, 2020, 7, 016202.	0.8	3
4	Novel promising terahertz optical material based on nanoporous SiO ₂ . , 2020, , .		3
5	Nanoporous SiO ₂ based on annealed artificial opals as a favorable material platform of terahertz optics. Optical Materials Express, 2020, 10, 2100.	1.6	17
6	Investigation of the Electrochemical Properties of Lithium-Sulfur Cells with Sulfur Electrodes Based on Carbon Inverted Opals. IFMBE Proceedings, 2020, , 193-197.	0.2	1
7	The Problem of Formation of Mixed Crystals and High-Efficiency K ₂ (Co, Ni)(SO ₄) ₂ · 6H ₂ O Optical Filters. Crystals, 2019, 9, 390.	1.0	15
8	Study of the Radial Heterogeneity and Mosaic Microheterogeneity in KCNSH Mixed Crystals. Crystallography Reports, 2019, 64, 828-833.	0.1	3
9	Effect of Heat Treatment on Water Vapor Adsorption by Opal Structures and Their Effective Refractive Index. Inorganic Materials, 2019, 55, 143-148.	0.2	2
10	Study of the Fracture Toughness of K ₂ Ni _x Co(1- \hat{x})(SO ₄) ₂ · 6H ₂ O Crystals in Dependence of the Growth Direction and Rate. Crystallography Reports, 2019, 64, 926-931.	0.1	4
11	C ₈ microcrystals synthesized by anthracene carbonization. AIP Conference Proceedings, 2019, , .	0.3	0
12	Magnetization Distribution in Particles with Configuration Anisotropy, Prepared via Microsphere Lithography. Technical Physics, 2019, 64, 1652-1656.	0.2	0
13	Synthesis of Monodisperse Silica Nanoparticles via Heterogeneous Tetraethoxysilane Hydrolysis Using L-Arginine as a Catalyst. Inorganic Materials, 2018, 54, 156-162.	0.2	10
14	The growth of KNSH/KCSH bicrystals from aqueous solutions at a constant temperature difference. Journal of Crystal Growth, 2018, 503, 45-50.	0.7	2
15	A novel way of synthesising C ₈ cubic carbon nanocrystals. CrystEngComm, 2018, 20, 6133-6135.	1.3	1
16	Developing of Standard Reference Materials of the Electrokinetic (Zeta) Potential of Nanoparticles. Nanotechnologies in Russia, 2018, 13, 90-95.	0.7	4
17	Growth of high-perfect mixed K ₂ Ni _x Co _{1-x} (SO ₄) ₂ · 6H ₂ O crystals for fabrication of high-efficiency UV optical filters. Journal of Crystal Growth, 2018, 500, 98-103.	0.7	19
18	Phase transformations in opals under thermal and thermobaric actions. Journal of Surface Investigation, 2017, 11, 634-638.	0.1	1

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19	Growth of mixed $K_2(Ni,Co)(SO_4)_2 \cdot 6H_2O$ crystals under stationary conditions of supercooling and forced convection of the aqueous solution. <i>Journal of Crystal Growth</i> , 2017, 475, 21-25.	0.7	17
20	Enhanced third-harmonic generation in photonic crystals at band-gap pumping. <i>Journal Physics D: Applied Physics</i> , 2017, 50, 055105.	1.3	25
21	Growth of faces of $K_2Co_xNi_{1-x}(SO_4)_2 \cdot 6H_2O$ mixed crystals. <i>Crystallography Reports</i> , 2017, 62, 976-982.	0.1	5
22	Anomalies of properties in a series of $K_2Co_xNi_{1-x}(SO_4)_2 \cdot 6H_2O$ mixed crystals. <i>Crystallography Reports</i> , 2017, 62, 928-939.	0.1	14
23	Interferometric study of the growth kinetics of $K_2Co(SO_4)_2 \cdot 6H_2O$ and $K_2Ni(SO_4)_2 \cdot 6H_2O$ crystals. <i>Crystallography Reports</i> , 2017, 62, 983-992.	0.1	5
24	Synthesis and Modification of Carbon Inverse Opal Nanostructures Based on Anthracene and Their Electrochemical Characteristics. <i>Nanotechnologies in Russia</i> , 2017, 12, 635-642.	0.7	3
25	Study of the $K_2Ni(SO_4)_2 \cdot 6H_2O$ – $K_2Co(SO_4)_2 \cdot 6H_2O$ – H_2O diagram and determination of the conditions for growing $K_2(Ni,Co)(SO_4)_2 \cdot 6H_2O$ mixed crystals. <i>Crystallography Reports</i> , 2016, 61, 1027-1030.	0.1	19
26	Adsorption of lanthanides and scandium ions by silica sol-gel material doped with novel bifunctional ionic liquid, trioctylmethylammonium 1-phenyl-3-methyl-4-benzoyl-5-onate. <i>Journal of Environmental Chemical Engineering</i> , 2016, 4, 3788-3796.	3.3	26
27	C-IOP/NiO/Ni ₆ S ₇ composite with the inverse opal lattice as an electrode for supercapacitors. <i>Proceedings of SPIE</i> , 2015, , .	0.8	1
28	A novel sorbent for lanthanide adsorption based on tetraoctyldiglycolamide, modified carbon inverse opals. <i>RSC Advances</i> , 2015, 5, 529-535.	1.7	19
29	Growth of nickel sulfate hexahydrate ($\hat{I}\pm$ -NiSO ₄ · 6H ₂ O) single crystals under steady-state conditions of temperature difference. <i>Crystallography Reports</i> , 2015, 60, 963-969.	0.1	9
30	Photonic crystal microspheres. <i>Optical Materials</i> , 2015, 49, 208-212.	1.7	13
31	Inverse opal based on a polymer filler and transformation of its optical characteristics. <i>Physics of the Solid State</i> , 2014, 56, 746-750.	0.2	1
32	Synthesis of polymer - based inverted opal and transformation of its optical properties. <i>Advances in Nano Research</i> , 2014, 2, 69-76.	0.9	1
33	Carbon and carbon-silicon carbide nanocomposites with inverse opal structure. <i>Russian Journal of General Chemistry</i> , 2013, 83, 2167-2172.	0.3	0
34	Microporous and mesoporous carbon nanostructures with the inverse opal lattice. <i>Physics of the Solid State</i> , 2013, 55, 1105-1110.	0.2	8
35	DIRECT OBSERVATION OF THE SHELL-LIKE STRUCTURE OF SiO_2 PARTICLES SYNTHESIZED BY THE MULTISTAGE STÄBER METHOD. <i>Nano</i> , 2013, 08, 1350036.	0.5	11
36	Adsorption of lanthanides(III), uranium(VI) and thorium(IV) from nitric acid solutions by carbon inverse opals modified with tetraphenylmethylenediphosphine dioxide. <i>Journal of Colloid and Interface Science</i> , 2013, 405, 183-188.	5.0	18

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37	Local spectroscopy of band gaps in ferroelectric photonic crystals. <i>Inorganic Materials</i> , 2012, 48, 285-288.	0.2	3
38	Luminescence induced in diamond by He ⁺ ion implantation into SiC/C composites with an inverse opal structure. <i>Physics of the Solid State</i> , 2012, 54, 586-592.	0.2	3
39	Mechanism of formation and nanostructure of Stober silica particles. <i>Nanotechnology</i> , 2011, 22, 275718.	1.3	135
40	Synthesis of a periodic SiC/C nanostructure. <i>Physics of the Solid State</i> , 2011, 53, 1121-1125.	0.2	4
41	Spontaneous and stimulated red luminescence of Lu ₂ O ₃ : Eu nanocrystals. <i>Physics of the Solid State</i> , 2011, 53, 1263-1268.	0.2	7
42	Colloidal particles of silicon dioxide for the formation of opal-like structures. <i>Physics of the Solid State</i> , 2011, 53, 1135-1139.	0.2	31
43	Effect of the geometric shape of Lu ₂ O ₃ : Eu spherical nanocrystals on their spontaneous luminescence. <i>Physics of the Solid State</i> , 2011, 53, 1895-1901.	0.2	12
44	Three-dimensional periodic lattice of ZrO ₂ nanocrystals in transparent silica matrix. <i>Physics of the Solid State</i> , 2010, 52, 794-799.	0.2	3
45	Photoluminescence properties of core-shell SiO ₂ /Lu ₂ O ₃ : Eu monodisperse heteronanoparticles. <i>Physics of the Solid State</i> , 2010, 52, 2385-2391.	0.2	5
46	Change of the luminescence decay time for Lu ₂ O ₃ : Eu nanocrystals embedded in synthetic opal. <i>Physics of the Solid State</i> , 2010, 52, 2510-2517.	0.2	6
47	Synthesis and features of the structure and luminescence of monodisperse SiO ₂ /(Lu ^x x Eu x) ₂ O ₃ (x =) Tj ETQq1,1 0.784314 rgBT	0.2	1
48	Optical properties of a carbon-zirconia quantum-dot photonic crystal. <i>Inorganic Materials</i> , 2010, 46, 505-509.	0.2	5
49	SiC/C nanocomposites with inverse opal structure. <i>Nanotechnology</i> , 2010, 21, 475604.	1.3	5
50	Angle- and time-resolved luminescence of CdSe/ZnS nanocrystals in 3D photonic crystals. , 2009, , .		0
51	Manipulating emission of CdTeSe nanocrystals embedded in three-dimensional photonic crystals. <i>Journal of Applied Physics</i> , 2009, 105, .	1.1	27
52	Effect of nanosphere size on the luminescence of synthetic opal. <i>Inorganic Materials</i> , 2009, 45, 260-263.	0.2	10
53	Annealing effect on reflectivity spectra of opal photonic crystals. <i>Inorganic Materials</i> , 2009, 45, 645-650.	0.2	0
54	Reflectivity spectra of NaNO ₂ -infiltrated synthetic opal. <i>Inorganic Materials</i> , 2009, 45, 894-899.	0.2	1

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55	Luminescence of CdSe/ZnS quantum dots infiltrated into an opal matrix. Semiconductors, 2009, 43, 197-201.	0.2	8
56	Photoluminescence of ZnO infiltrated into a three-dimensional photonic crystal. Semiconductors, 2009, 43, 1017-1022.	0.2	3
57	Influence of high-temperature treatment on the structure and emission properties of opal doped with erbium. Physics of the Solid State, 2009, 51, 1154-1159.	0.2	1
58	Synthesis of β -SiC nanocrystals by carbothermal reduction of spherical nanoparticles of amorphous silicon dioxide. Physics of the Solid State, 2009, 51, 1723-1729.	0.2	10
59	Luminescent properties of synthetic opal. Inorganic Materials, 2008, 44, 159-164.	0.2	14
60	1.5 μ m photoluminescence of Er^{3+} in opal based photonic crystals. Proceedings of SPIE, 2008, , .	0.8	0
61	Stimulated emission at the second order stop-zone edge of the two-dimensional opal-zinc oxide photonic crystal. Photonics and Nanostructures - Fundamentals and Applications, 2007, 5, 96-100.	1.0	1
62	Dispersion of light in opal photonic crystal. Physics of the Solid State, 2007, 49, 1700-1703.	0.2	5
63	Photonic stop bands in opal films and crystalline liquids. , 2006, , .		2
64	Porous structure of synthetic opals. Colloid Journal, 2006, 68, 20-25.	0.5	31
65	Structural modification of synthetic opals during thermal treatment. Physics of the Solid State, 2006, 48, 1280-1283.	0.2	23
66	Opal-ZnO nanocomposites: structure and emission properties. , 2005, , .		2
67	Growth and morphology of ruby crystals with unusual chromium concentration. Journal of Crystal Growth, 2005, 280, 551-556.	0.7	1
68	The Intrinsic Structure of Spherical Particles of Opal. Physics of the Solid State, 2005, 47, 347.	0.2	32
69	Opal-ZnO Nanocomposites: Structure and Emission Properties. Semiconductors, 2005, 39, 1328.	0.2	9
70	ZnO-infiltrated opal: influence of the stop-zone on the UV spontaneous emission. Journal of Optics, 2005, 7, S213-S218.	1.5	12
71	Photoluminescence of ZnO layers grown on opals by chemical deposition from zinc nitrate solution. Semiconductor Science and Technology, 2004, 19, 851-854.	1.0	20
72	Ultraviolet luminescence of ZnO infiltrated into an opal matrix. Semiconductors, 2004, 38, 849-854.	0.2	5

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73	Formation of two-dimensional ordered magnetic nanolattices in opal structures. JETP Letters, 2004, 80, 500-502.	0.4	2
74	Multiphonon resonant Raman scattering in ZnO crystals and nanostructured layers. Physical Review B, 2004, 70, .	1.1	113
75	Mono- and multilayered opalline superlattices: application to nanotechnology of 2D ordered array of nanoobjects and 3D metalattices. Applied Surface Science, 2004, 234, 93-101.	3.1	7
76	Photoluminescence and resonant Raman scattering from ZnO-opal structures. Journal of Applied Physics, 2004, 96, 1001-1006.	1.1	44
77	UV luminescence of ZnO infiltrated in opal matrix. , 2004, , .		0
78	Luminescence from ZnO quantum dots deposited with synthetic opal. Semiconductors, 2003, 37, 314-316.	0.2	6
79	Optical properties of thin films of closely packed SiO ₂ spheres. Physics of the Solid State, 2002, 44, 1071-1076.	0.2	1
80	Hydrodynamics and oscillation of temperature in single crystal growth from high-temperature solutions with use of ACRT. Journal of Crystal Growth, 1992, 119, 297-302.	0.7	8
81	Physical simulation of hydrodynamics and growth of single crystals from high temperature solutions under conditions of free convection. III. Non-stationary mode of convection. Materials Research Bulletin, 1991, 26, 277-284.	2.7	0
82	Physical simulation of the hydrodynamics during the growth of oxide single crystals from high-temperature solutions in the presence of a steady-state free convection flow. Materials Research Bulletin, 1991, 26, 1135-1141.	2.7	0
83	Boundary conditions of the transition from steady-state to unsteady-state regimes of free convection in high-temperature solutions of oxides. Single crystal growth in a steady-state regime. Materials Research Bulletin, 1991, 26, 1309-1314.	2.7	0
84	Phase equilibria in La(Y)-Ba-Cu-O systems and growth of high-T _c superconductor bulk single crystals. IEEE Transactions on Magnetics, 1991, 27, 1146-1149.	1.2	10
85	Growth of HIGH-T _c superconductor single crystals and the effect of thermobaric treatment in oxygen on critical temperatures. Materials Letters, 1990, 9, 96-100.	1.3	10