Dmitry A Kurdyukov

List of Publications by Year
in descending order

66 papers	1,230 citations	361296 20 h-index	377752 34 g-index
66 all docs	66 docs citations	66 times ranked	1029 citing authors

#	Article	IF	Citations
1	Ultrafast Optical Switching in Three-Dimensional Photonic Crystals. Physical Review Letters, 2003, 91, 213903.	2.9	156
2	Phase transition-governed opalâ€"VO2 photonic crystal. Applied Physics Letters, 2001, 79, 2127-2129.	1.5	84
3	Monodisperse spherical mesoporous silica particles: fast synthesis procedure and fabrication of photonic-crystal films. Nanotechnology, 2013, 24, 155601.	1.3	74
4	Bragg reflection spectroscopy of opal-like photonic crystals. Physical Review B, 2005, 72, .	1.1	70
5	Ultrafast stop band kinetics in a three-dimensional opal-VO2photonic crystal controlled by a photoinduced semiconductor-metal phase transition. Physical Review B, 2007, 75, .	1.1	60
6	Nonlinear diffraction and second-harmonic generation enhancement in silicon-opal photonic crystals. Applied Physics Letters, 2005, 87, 151111.	1.5	46
7	High-surface area spherical micro-mesoporous silica particles. Microporous and Mesoporous Materials, 2016, 223, 225-229.	2.2	45
8	Subpicosecond shifting of the photonic band gap in a three-dimensional photonic crystal. Applied Physics Letters, 2005, 86, 041114.	1.5	41
9	Effect of tetraethoxysilane pretreatment on synthesis of colloidal particles of amorphous silicon dioxide. Colloid Journal, 2011, 73, 546-550.	0.5	35
10	Synthesis of monodispersed mesoporous spheres of submicron size amorphous silica. Glass Physics and Chemistry, 2011, 37, 378-384.	0.2	33
11	Tailoring the size and microporosity of StÃ¶ber silica particles. Microporous and Mesoporous Materials, 2018, 258, 205-210.	2.2	32
12	Controllable spherical aggregation of monodisperse carbon nanodots. Nanoscale, 2018, 10, 13223-13235.	2.8	32
13	Theoretical and experimental studies of metal-infiltrated opals. Physical Review B, 2005, 71, .	1.1	31
14	Template synthesis of monodisperse carbon nanodots. Physics of the Solid State, 2016, 58, 2545-2549.	0.2	31
15	Opal-Hematite and Opal-Magnetite Films: Lateral Infiltration, Thermodynamically Driven Synthesis, Photonic Crystal Properties. Journal of Physical Chemistry C, 2008, 112, 17855-17861.	1.5	29
16	Fabrication and structural studies of opal-III nitride nanocomposites. Nanotechnology, 2000, 11, 291-294.	1.3	27
17	Ordered porous diamond films fabricated by colloidal crystal templating. Nanotechnology, 2012, 23, 015601.	1.3	26
18	Coreâ€"shell monodisperse spherical mSiO2/Gd2O3:Eu3+@mSiO2 particles as potential multifunctional theranostic agents. Journal of Nanoparticle Research, 2015, 17, 1.	0.8	26

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19	Fabrication of regular three-dimensional lattices of submicron silicon clusters in an SiO2 opal matrix. Technical Physics Letters, 1998, 24, 326-327.	0.2	23
20	Hysteresis of the photonic band gap in VO2 photonic crystal in the semiconductor-metal phase transition. Semiconductors, 2002, 36, 1043-1047.	0.2	23
21	Evidence of field-induced nucleation switching in opal: VO<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mn>2</mml:mn></mml:msub></mml:math>composites and VO<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mn>2</mml:mn></mml:msub></mml:math>films. Physical Review B, 2012, 85, .	1.1	18
22	Fabrication and structure of an opal-gallium nitride nanocomposite. Semiconductor Science and Technology, 2001, 16, L5-L7.	1.0	17
23	Micro-mesoporous submicron silica particles with pore size tunable in a wide range: synthesis, properties and prospects for LED manufacturing. Nanotechnology, 2021, 32, 215604.	1.3	16
24	Diamond direct and inverse opal matrices produced by chemical vapor deposition. Physics of the Solid State, 2011, 53, 1131-1134.	0.2	15
25	Magnetophotonic crystals based on yttrium-iron-garnet infiltrated opals: Magnetization-induced second-harmonic generation. Applied Physics Letters, 2006, 88, 022501.	1.5	14
26	Photonic crystals and glasses from monodisperse spherical mesoporous silica particles filled with nickel. Physics of the Solid State, 2014, 56, 1033-1038.	0.2	14
27	Infiltration of silica colloidal crystals with molten salts and semiconductors under capillary forces. Journal of Alloys and Compounds, 2010, 492, 611-615.	2.8	13
28	A comparative TEM study of the 3D lattice of tellurium nanoclusters fabricated by different techniques in an opal host. Physics of the Solid State, 1997, 39, 1869-1874.	0.2	12
29	Effect of annealing on parameters of synthetic opal. Nanotechnology, 2006, 17, 5349-5354.	1.3	12
30	Fluorescent monodisperse spherical particles based on mesoporous silica containing rhodamine 6G. Physics of the Solid State, 2012, 54, 1298-1305.	0.2	12
31	Carbon Dots with an Emission in the Near Infrared Produced from Organic Dyes in Porous Silica Microsphere Templates. Nanomaterials, 2022, 12, 543.	1.9	12
32	Opal-AgI photonic crystal controlled by the superionic phase transition. Physica Status Solidi (A) Applications and Materials Science, 2006, 203, 2073-2077.	0.8	11
33	Electroluminescent three-dimensional photonic crystals based on opalâ€“phosphor composites. Applied Physics Letters, 2005, 86, 071108.	1.5	10
34	Plasmonic effects and visible light diffraction in three-dimensional opal-metal photonic crystals. Applied Physics Letters, 2007, 90, 171108.	1.5	10
35	Melt synthesis and structural properties of opal-V2O5 and opal-VO2 nanocomposites. Physics of the Solid State, 2011, 53, 428-434.	0.2	10
36	The synthesis of clusters of iron oxides in mesopores of monodisperse spherical silica particles. Physics of the Solid State, 2017, 59, 1623-1628.	0.2	10

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37	Thermal conductivity of a new type of regular-structure nanocomposites: PbSe in opal pores. Physics of the Solid State, 1997, 39, 510-514.	0.2	8
38	Activator-free luminescent nanocontainers for theranostics of cancerous growths. Technical Physics Letters, 2015, 41, 919-921.	0.2	8
39	Photonic crystals of diamond spheres with the opal structure. Physics of the Solid State, 2013, 55, 1120-1123.	0.2	7
40	Preparation of colloidal films with different degrees of disorder from monodisperse spherical silica particles. Physics of the Solid State, 2013, 55, 1718-1724.	0.2	7
41	Fabrication of doxorubicin-loaded monodisperse spherical micro-mesoporous silicon particles for enhanced inhibition of cancer cell proliferation. Microporous and Mesoporous Materials, 2019, 281, 1-8.	2.2	7
42	Behavior of the low-frequency conductivity of silver iodide nanocomposites in the superionic phase transition region. Physics of the Solid State, 2013, 55, 175-180.	0.2	6
43	Hypersonic properties of monodisperse spherical mesoporous silica particles. Journal Physics D: Applied Physics, 2014, 47, 335303.	1.3	6
44	Ni-functionalized submicron mesoporous silica particles as a sorbent for metal affinity chromatography. Journal of Chromatography A, 2017, 1513, 140-148.	1.8	6
45	Fluorescence enhancement of monodisperse carbon nanodots treated with aqueous ammonia and hydrogen peroxide. Nanotechnology, 2019, 30, 475601.	1.3	6
46	Laser-pulse-induced Bragg diffraction spectrum rearrangement in opal-VO2 composites. Physics of the Solid State, 2003, 45, 240-243.	0.2	4
47	Formation of three-dimensional arrays of magnetic clusters NiO, Co3O4, and NiCo2O4 by the matrix method. Physics of the Solid State, 2016, 58, 1216-1221.	0.2	4
48	Template Synthesis of Monodisperse Spherical Nanocomposite SiO2/GaN:Eu3+ Particles. Semiconductors, 2018, 52, 1123-1128.	0.2	4
49	Manifestation of fluorophore segmental motion in carbon dots in steady-state fluorescence experiments. Physical Chemistry Chemical Physics, 2020, 22, 8401-8408.	1.3	4
50	Thermally Induced Depolarization of the Photoluminescence of Carbon Nanodots in a Colloidal Matrix. JETP Letters, 2018, 107, 223-227.	0.4	3
51	Electrostatic Stabilization of Hydrosols of Calcium Carbonate Nanoparticles Synthesized by the Template Method. Colloid Journal, 2020, 82, 115-121.	0.5	3
52	Luminescent Properties of Carbon Nanodots Bound to the Surface of Spherical Microresonator. Physics of the Solid State, 2020, 62, 1898-1904.	0.2	3
53	Biocompatible acid-degradable micro-mesoporous CaCO3:Si:Fe nanoparticles potential for drug delivery. Microporous and Mesoporous Materials, 2022, 333, 111762.	2.2	3
54	Atomic Force Microscopy Study of Monodisperse Carbon Nanoparticles. Semiconductors, 2018, 52, 2065-2067.	0.2	2

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55	Effect of dark states on the fluorescence of carbon nanodots. Physical Chemistry Chemical Physics, 2018, 20, 29045-29050.	1.3	2
56	Template Synthesis of Monodisperse Submicrometer Spherical Nanoporous Silicon Particles. Semiconductors, 2019, 53, 1048-1053.	0.2	2
57	Synthesis of Monodisperse Carbon Nanodots with Variable Photoluminescence Spectrum Using Polyaromatic Precursors. Technical Physics Letters, 2019, 45, 940-942.	0.2	2
58	Study of the structure of 3D-ordered macroporous GaN-ZnS:Mn nanocomposite films. Semiconductors, 2015, 49, 658-662.	0.2	1
59	Temperature Quenching and Fluorescence Depolarization of Carbon Nanodots Obtained via Paraffin Pyrolysis. Physics of the Solid State, 2018, 60, 2565-2570.	0.2	1
60	Luminescent Plasmonic Structures Based on Gold Nanoparticles and Carbon Nanodots in Mesoporous Silica Particles. Technical Physics Letters, 2020, 46, 928-930.	0.2	1
61	Monodisperse spherical mesoporous nanocomposite mSiO2/C-dots/Eu3+ particles with broadband luminescence in the visible spectral range. Journal of Physics: Conference Series, 2019, 1400, 055002.	0.3	0
62	Polarization study of carbon nanodots photoluminescence. Fullerenes Nanotubes and Carbon Nanostructures, 2020, 28, 118-122.	1.0	0
63	Formation of GaN Nanorods in Monodisperse Spherical Mesoporous Silica Particles. Semiconductors, 2020, 54, 782-787.	0.2	0
64	Synthesis of Monodisperse MoS2 Nanoparticles by the Template Method. Semiconductors, 2021, 55, 525.	0.2	0
65	Investigation of the Photophysical Properties of the HgI2@mSiO2 Nanocomposite. Physics of the Solid State, 2021, 63, 1311-1316.	0.2	0
66	Multiporous Silica Nanoparticles with Carbon Nanodots: Synthesis, Optoelectronic and Biomedical Applications. Physics of the Solid State, 2021, 63, 1704-1710.	0.2	0