

Vladimir Kuznetsov

List of Publications by Year in descending order

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113
papers

3,779
citations

201674

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115
all docs

115
docs citations

115
times ranked

4147
citing authors

#	ARTICLE	IF	CITATIONS
1	A composite material with controllable electromagnetic characteristics for the terahertz frequency range. <i>Journal of Applied Physics</i> , 2022, 131, 064103.	2.5	1
2	The morphology evolution of polyethylene produced in the presence of a Ziegler–Natta catalyst anchored on the surface of multi-walled carbon nanotubes. <i>Journal of Applied Polymer Science</i> , 2021, 138, 50528.	2.6	2
3	Co/multi-walled carbon nanotubes/polyethylene composites for microwave absorption: Tuning the effectiveness of electromagnetic shielding by varying the components ratio. <i>Composites Science and Technology</i> , 2021, 207, 108731.	7.8	27
4	Multi-walled carbon nanotube aerogels in quasi-optical terahertz beams. <i>AIP Conference Proceedings</i> , 2021, , .	0.4	0
5	Chemical Vapor Deposition of Silicon Nanoparticles on the Surface of Multiwalled Carbon Nanotubes. <i>Journal of Structural Chemistry</i> , 2020, 61, 617-627.	1.0	5
6	Interaction of Multiwalled Carbon Nanotube Aerogels with Quasi-Optical Terahertz Beams. <i>Physica Status Solidi (B): Basic Research</i> , 2019, 256, 1900251.	1.5	2
7	Formation of Ziegler–Natta catalytic systems on the surface of multi-walled carbon nanotubes for the production of composite materials by <i>in situ</i> polymerization. <i>Journal of Applied Polymer Science</i> , 2019, 136, 48212.	2.6	4
8	Electrical transport in onion-like carbon–PMMA nanocomposites. <i>Applied Physics Letters</i> , 2019, 114, .	3.3	5
9	Combustion characteristics and structure of carbon nanotube/titanium composites. <i>Journal of Thermal Analysis and Calorimetry</i> , 2019, 137, 1903-1910.	3.6	5
10	The low-temperature specific heat of MWCNTs. <i>Low Temperature Physics</i> , 2019, 45, 347-354.	0.6	15
11	Size-Dependent Electrical and Thermal Properties of Onion-Like Carbons/Polyurethane Composites. <i>Polymer Composites</i> , 2018, 39, E1834.	4.6	6
12	In situ Polymerization Technique for Obtaining Composite Materials Based on Polyethylene, Multi-walled Carbon Nanotubes and Cobalt Nanoparticles. <i>Russian Journal of Applied Chemistry</i> , 2018, 91, 127-135.	0.5	15
13	Influence of Carbon Nanotube Spatial Distribution on Electromagnetic Properties of Nanotube–Polymer Composites (Phys. Status Solidi B 1/2018). <i>Physica Status Solidi (B): Basic Research</i> , 2018, 255, 1870103.	1.5	0
14	Influence of Carbon Nanotube Spatial Distribution on Electromagnetic Properties of Nanotube–Polymer Composites. <i>Physica Status Solidi (B): Basic Research</i> , 2018, 255, 1700257.	1.5	4
15	Analysis of Defect-Free Graphene Blocks in Nitrogen-Doped Bamboo-Like Carbon Nanotubes. <i>Physica Status Solidi (B): Basic Research</i> , 2018, 255, 1700253.	1.5	9
16	Electromagnetic Interaction Between Spherical Aerogels of Multi-Walled Carbon Nanotubes. <i>Physica Status Solidi (B): Basic Research</i> , 2018, 255, 1700256.	1.5	13
17	Influence of the Growth Temperature on the Defective Structure of the Multi-Walled Carbon Nanotubes. <i>Physica Status Solidi (B): Basic Research</i> , 2018, 255, 1700255.	1.5	12
18	Internal field ⁵⁹ Co NMR study of cobalt-iron nanoparticles during the activation of CoFe ₂ /CaO catalyst for carbon nanotube synthesis. <i>Journal of Catalysis</i> , 2018, 358, 62-70.	6.2	31

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19	Fe-Mo and Co-Mo Catalysts with Varying Composition for Multi-Walled Carbon Nanotube Growth. <i>Physica Status Solidi (B): Basic Research</i> , 2018, 255, 1700260.	1.5	26
20	Macroporous carbon aerogel as a novel adsorbent for immobilized enzymes and a support for the lipase-active heterogeneous biocatalysts for conversion of triglycerides and fatty acids. <i>Journal of Porous Materials</i> , 2018, 25, 1017-1026.	2.6	17
21	Electromagnetic Parameters of Composite Materials Based on Polyethylene and Multi-Walled Carbon Nanotubes Modified by Iron Oxide Nanoparticles. <i>Russian Journal of Applied Chemistry</i> , 2018, 91, 1994-2002.	0.5	4
22	The Usage of Conducting Wire Sphere Models for the Estimation of Electrophysical Properties of Multiwalled Carbon Nanotube Spherical Aerogels. <i>Physica Status Solidi (B): Basic Research</i> , 2018, 255, 1800193.	1.5	5
23	Structure of the in situ produced polyethylene based composites modified with multi-walled carbon nanotubes: In situ synchrotron X-ray diffraction and differential scanning calorimetry study. <i>Composites Science and Technology</i> , 2018, 167, 148-154.	7.8	28
24	Side reaction in catalytic CVD growth of carbon nanotubes: Surface pyrolysis of a hydrocarbon precursor with the formation of lateral carbon deposits. <i>Carbon</i> , 2018, 139, 105-117.	10.3	18
25	Co metal nanoparticles deposition inside or outside multi-walled carbon nanotubes via facile support pretreatment. <i>Applied Surface Science</i> , 2018, 456, 657-665.	6.1	29
26	Magnetic and dielectric properties of carbon nanotubes with embedded cobalt nanoparticles. <i>Carbon</i> , 2017, 114, 39-49.	10.3	45
27	Aldose to ketose interconversion: galactose and arabinose isomerization over heterogeneous catalysts. <i>Catalysis Science and Technology</i> , 2017, 7, 5321-5331.	4.1	29
28	A model for catalytic synthesis of carbon nanotubes in a fluidized-bed reactor: Effect of reaction heat. <i>Chemical Engineering Journal</i> , 2017, 329, 305-311.	12.7	17
29	Terahertz dielectric properties of multiwalled carbon nanotube/polyethylene composites. <i>Materials Research Express</i> , 2017, 4, 106201.	1.6	21
30	Small-sized body influence on the quality factor increasing of quasioptical open resonator. <i>Optical and Quantum Electronics</i> , 2017, 49, 1.	3.3	5
31	Electrochemistry of cytochrome P450 17 α -hydroxylase/17,20-lyase (P450c17). <i>Molecular and Cellular Endocrinology</i> , 2017, 441, 62-67.	3.2	4
32	The electromagnetic characteristics of the composites based on hexaferrites and MCNT at gigahertz and terahertz frequency bands. , 2017, , .		1
33	Length-dependent broadband electric properties of PMMA composites filled with carbon nanotubes. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2016, 213, 1025-1033.	1.8	7
34	Modification of the surface of carbon fibers with multi-walled carbon nanotubes and its effect on mechanical characteristics of composites with epoxy resin. <i>Russian Journal of Applied Chemistry</i> , 2016, 89, 1969-1977.	0.5	3
35	Influence of multi-walled carbon nanotubes on the cognitive abilities of Wistar rats. <i>Experimental and Therapeutic Medicine</i> , 2016, 12, 1311-1318.	1.8	11
36	Terahertz dielectric properties of MWCNT/PE composites. , 2016, , .		0

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37	Optical properties of silica aerogels with embedded multiwalled carbon nanotubes. Physica Status Solidi (B): Basic Research, 2016, 253, 2440-2445.	1.5	15
38	Electrophysical Properties of Onion-Like Carbon. Russian Physics Journal, 2016, 59, 171-176.	0.4	1
39	Investigation of defectiveness of multiwalled carbon nanotubes produced with Fe-Co catalysts of different composition. Journal of Nanophotonics, 2016, 10, 012526.	1.0	22
40	Carbon nanotubes and carbon onions for modification of styrene-acrylate copolymer nanocomposites. Polymer Composites, 2015, 36, 1048-1054.	4.6	6
41	Investigation of electromagnetic properties of MWCNT aerogels produced via catalytic ethylene decomposition. Physica Status Solidi (B): Basic Research, 2015, 252, 2519-2523.	1.5	23
42	Synergy effects in the electrical conductivity behavior of onion-like carbon and multiwalled carbon nanotubes composites. Physica Status Solidi (B): Basic Research, 2015, 252, 1799-1803.	1.5	10
43	Dielectric properties of onion-like carbon and detonation nanodiamond/polydimethylsiloxane composites. Polymer Composites, 2015, 36, 2084-2092.	4.6	10
44	Mechanistic Scrutiny Identifies a Kinetic Role for Cytochrome b5 Regulation of Human Cytochrome P450c17 (CYP17A1, P450 17A1). PLoS ONE, 2015, 10, e0141252.	2.5	28
45	Electric/dielectric properties of composites filled with onion-like carbon and multiwalled carbon nanotubes. Lithuanian Journal of Physics, 2015, 55, .	0.4	3
46	Research of Electromagnetic Properties of Composite Materials on the Basis of MWNTs in Microwave Range. Advanced Materials Research, 2014, 1040, 142-147.	0.3	0
47	Carbon nanotubes and carbon onions for modification of styrene-acrylate copolymer based nanocomposites. , 2014, , .		0
48	Raman spectra for characterization of defective CVD multiwalled carbon nanotubes. Physica Status Solidi (B): Basic Research, 2014, 251, 2444-2450.	1.5	81
49	Change in sizes of carbon aggregates and primary particles of the onion-like carbon synthesized by high-temperature annealing of nanodiamond. Russian Chemical Bulletin, 2014, 63, 599-604.	1.5	2
50	Comparative study of multiwalled carbon nanotube/polyethylene composites produced via different techniques. Physica Status Solidi (B): Basic Research, 2014, 251, 2437-2443.	1.5	21
51	Metal-insulator transition and size dependent electrical percolation in onion-like carbon/polydimethylsiloxane composites. Journal of Applied Physics, 2014, 115, .	2.5	23
52	Single-walled carbon nanotubes as a template for coronene stack formation. Physica Status Solidi (B): Basic Research, 2014, 251, 2372-2377.	1.5	15
53	Dielectric Properties of Polymer Composites with Carbon Nanotubes of Different Diameters. Journal of Nanoscience and Nanotechnology, 2014, 14, 5430-5434.	0.9	8
54	Laser modification of optical properties of a carbon nanotube suspension in dimethylformamide. Technical Physics Letters, 2013, 39, 337-340.	0.7	18

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55	Influence of carbon-nanotube diameters on composite dielectric properties. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2013, 210, 2491-2498.	1.8	19
56	Immobilization of recombinant <i>E. coli</i> thermostable lipase by entrapment inside silica xerogel and nanocarbon-in-silica composites. <i>Journal of Molecular Catalysis B: Enzymatic</i> , 2013, 98, 78-86.	1.8	23
57	An investigation of electromagnetic response of composite polymer materials containing carbon nanostructures within the range of frequencies 10 MHz – 1.1 THz. <i>Russian Physics Journal</i> , 2013, 55, 970-976.	0.4	26
58	Carbon-in-silica matrices for the preparation of heterogeneous biocatalysts: The synthesis of carbon nanofibers on a Ni/SiO ₂ catalyst and the characterization of the resulting adsorbents for the immobilization of thermostable lipase. <i>Kinetics and Catalysis</i> , 2013, 54, 749-760.	1.0	7
59	Characterization of aluminum-carbon composites obtained via mechanical activation of aluminum and carbon nanotubes. <i>Bulletin of the Russian Academy of Sciences: Physics</i> , 2013, 77, 162-165.	0.6	3
60	Recombinant strain producing thermostable lipase from <i>Thermomyces lanuginosus</i> immobilized into nanocarbon-in-silica matrices and properties of the prepared biocatalysts. <i>Applied Biochemistry and Microbiology</i> , 2013, 49, 296-305.	0.9	9
61	Electromagnetic properties of MWCNT/PE composites at different levels of THz peak power. , 2013, , .		0
62	Broadband dielectric properties of onion-like carbon/polyurethane composites. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2013, 210, 2683-2688.	1.8	6
63	Raman Spectra for Characterization of Onion-Like Carbon. <i>Journal of Nanoelectronics and Optoelectronics</i> , 2013, 8, 106-109.	0.5	19
64	Dielectric properties of annealed onion-like carbon composites in microwave region. <i>Lithuanian Journal of Physics</i> , 2013, 53, 238-243.	0.4	7
65	Localization and electrical transport in onion-like carbon based composites. <i>Journal of Applied Physics</i> , 2012, 111, 103701.	2.5	9
66	<i>In situ</i> and <i>ex situ</i> time resolved study of multi-component Fe ₃ Co oxide catalyst activation during MWNT synthesis. <i>Physica Status Solidi (B): Basic Research</i> , 2012, 249, 2390-2394.	1.5	62
67	Terahertz transmission spectra of composite materials based on MWNT with different time of ultrasonic processing. , 2012, , .		5
68	CNT/PMMA Electromagnetic Coating: Effect of Carbon Nanotube Diameter. <i>Fullerenes Nanotubes and Carbon Nanostructures</i> , 2012, 20, 527-530.	2.1	3
69	Oxidation behavior of multiwall carbon nanotubes with different diameters and morphology. <i>Applied Surface Science</i> , 2012, 258, 6272-6280.	6.1	124
70	Diamond Phase Transitions at Nanoscale. , 2012, , 181-244.		6
71	Direct Vapor-Phase Bromination of Multiwall Carbon Nanotubes. <i>Journal of Nanotechnology</i> , 2012, 2012, 1-5.	3.4	22
72	Immobilization of enzymatic active substances by immuring inside nanocarbon-in-silica composites. <i>Journal of Molecular Catalysis B: Enzymatic</i> , 2012, 76, 116-124.	1.8	8

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73	Electromagnetic response of polymer composites with quasi-spherical nanocarbon inclusions: theory below the percolation threshold. <i>Journal of Polymer Engineering</i> , 2011, 31, .	1.4	0
74	Structure and Electrophysical Properties of Multiwalled Carbon Nanotube/Polymethylmethacrylate Composites Prepared via Coagulation Technique. <i>Nanoscience and Nanotechnology Letters</i> , 2011, 3, 18-23.	0.4	9
75	Hydroxylated Detonation Nanodiamond: FTIR, XPS, and NMR Studies. <i>Journal of Physical Chemistry C</i> , 2011, 115, 19005-19011.	3.1	143
76	Laser-induced diamagnetism in suspension of onion-like carbon particles. <i>Technical Physics Letters</i> , 2011, 37, 831-834.	0.7	5
77	Comparative study of reflectance properties of nanodiamonds, onion-like carbon and multiwalled carbon nanotubes. <i>Physica Status Solidi (B): Basic Research</i> , 2011, 248, 2572-2576.	1.5	16
78	Influence of the morphology and the surface chemistry of carbons on their catalytic performances in the catalytic wet peroxide oxidation of organic contaminants. <i>Applied Catalysis A: General</i> , 2010, 387, 55-66.	4.3	33
79	Multi-walled carbon nanotubes with ppm level of impurities. <i>Physica Status Solidi (B): Basic Research</i> , 2010, 247, 2695-2699.	1.5	50
80	Electrocorrosion properties of multiwall carbon nanotubes. <i>Physica Status Solidi (B): Basic Research</i> , 2010, 247, 2738-2742.	1.5	7
81	Dielectric properties of a novel high absorbing onion-like-carbon based polymer composite. <i>Diamond and Related Materials</i> , 2010, 19, 91-99.	3.9	29
82	Optical limiting and bleaching effects in a suspension of onion-like carbon. <i>Quantum Electronics</i> , 2009, 39, 342-346.	1.0	18
83	Electromagnetic shielding properties of MWCNT/PMMA composites in Ka-band. <i>Physica Status Solidi (B): Basic Research</i> , 2009, 246, 2662-2666.	1.5	39
84	Dielectric properties of MWCNT based polymer composites close and below percolation threshold. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2009, 6, 2814-2816.	0.8	5
85	Chiral carbon nanoscrolls with a polygonal cross-section. <i>Carbon</i> , 2009, 47, 3099-3105.	10.3	37
86	Low-frequency (10 ⁴ -50 kHz) impedance of polystyrene-onion-like-carbon composites. <i>Technical Physics Letters</i> , 2009, 35, 85-88.	0.7	9
87	Photoinduced transparency of a suspension of onion-like carbon nanoparticles. <i>Technical Physics Letters</i> , 2009, 35, 162-165.	0.7	6
88	Influence of Humidity on Dielectric Properties of PMMA Nanocomposites Containing Onion-Like Carbon. <i>Ferroelectrics</i> , 2009, 391, 131-138.	0.6	3
89	High dielectric permittivity of percolative composites based on onion-like carbon. <i>Applied Physics Letters</i> , 2009, 95, 112901.	3.3	44
90	Dielectric Response of Onion-Like Carbon-Based Polymethyl Methacrylate Composites. <i>Journal of Nanoelectronics and Optoelectronics</i> , 2009, 4, 261-266.	0.5	3

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91	Onion-Like Carbon in Microwaves: Electromagnetic Absorption Bands and Percolation Effect. Journal of Nanoelectronics and Optoelectronics, 2009, 4, 257-260.	0.5	13
92	Controllable electromagnetic response of onion-like carbon based materials. Physica Status Solidi (B): Basic Research, 2008, 245, 2051-2054.	1.5	32
93	Terahertz probing of onion-like carbon-PMMA composite films. Diamond and Related Materials, 2008, 17, 1608-1612.	3.9	45
94	Onion-like carbon for terahertz electromagnetic shielding. Diamond and Related Materials, 2008, 17, 462-466.	3.9	61
95	Nanodiamond bioconjugate probes and their collection by electrophoresis. Diamond and Related Materials, 2008, 17, 1858-1866.	3.9	100
96	Attenuation of electromagnetic waves in onion-like carbon composites. Diamond and Related Materials, 2007, 16, 1231-1235.	3.9	55
97	Evidence of an Equimolar C ₂ H ₂ ↔ CO ₂ Reaction in the Synthesis of Carbon Nanotubes. Angewandte Chemie - International Edition, 2007, 46, 441-444.	13.8	61
98	Oxidative dehydrogenation of ethylbenzene to styrene over ultra-dispersed diamond and onion-like carbon. Carbon, 2007, 45, 2145-2151.	10.3	168
99	Thermodynamic analysis of nucleation of boron nitride nanotubes on metal particles. Physica Status Solidi (B): Basic Research, 2007, 244, 4165-4169.	1.5	10
100	Properties of individual fractions of detonation nanodiamond. Diamond and Related Materials, 2006, 15, 1804-1808.	3.9	67
101	Diamond Phase Transitions at Nanoscale. , 2006, , 405-475.		27
102	The Catalytic Use of Onion-Like Carbon Materials for Styrene Synthesis by Oxidative Dehydrogenation of Ethylbenzene. Angewandte Chemie - International Edition, 2002, 41, 1885.	13.8	248
103	Thermodynamic analysis of nucleation of carbon deposits on metal particles and its implications for the growth of carbon nanotubes. Physical Review B, 2001, 64, .	3.2	107
104	Temperature Dependence of Electroresistivity, Negative and Positive Magnetoresistivity of Graphite/Diamond Nanocomposites and Onion-Like Carbon. Materials Research Society Symposia Proceedings, 2001, 703, 1.	0.1	2
105	Topology and Electronic Structure of Onion-Like Carbon and Graphite/Diamond Nanocomposites. Materials Research Society Symposia Proceedings, 2001, 703, 1.	0.1	1
106	Thermodynamic Analysis of Carbon Nucleation on a Metal Surface. Materials Research Society Symposia Proceedings, 2001, 706, 1.	0.1	1
107	Closed curved graphite-like structures formation on micron-size diamond. Chemical Physics Letters, 1998, 289, 353-360.	2.6	56
108	Onion-like carbon from ultra-disperse diamond. Chemical Physics Letters, 1994, 222, 343-348.	2.6	610

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109	Polyhedral silsesquioxanes as precursors of tailor-made heterogeneous catalyst centres. <i>Journal of Organometallic Chemistry</i> , 1994, 475, 65-72.	1.8	19
110	Study of Onion-Like Carbon (OLC) Formation from Ultra Disperse Diamond (UDD). <i>Materials Research Society Symposia Proceedings</i> , 1994, 359, 105.	0.1	13
111	Synthesis of Highly Dispersed Pt Catalysts on MWCNTs via Hydrolytic Deposition without Preliminary Modification of the Support. <i>Advanced Materials Research</i> , 0, 1040, 399-404.	0.3	1
112	Radioabsorbing Materials Based on Polyurethane with Carbon Fillers. <i>Advanced Materials Research</i> , 0, 1040, 137-141.	0.3	4
113	Short-Time Effect of Multi-Walled Carbon Nanotubes on Some Histological and Biochemical Parameters in Marine Bivalves <i>Crenomytilus grayanus</i> (Dunker, 1853) and <i>Swiftopecten swifti</i> (Bernardi, 1858). <i>Nano Hybrids and Composites</i> , 0, 13, 225-231.	0.8	7