Lyubov Bulusheva

List of Publications by Year
in descending order

248 papers	6,826 citations	101543 36 h-index	82547 72 g-index
250 all docs	250 docs citations	250 times ranked	8423 citing authors

#	Article	IF	Citations
1	Catalysts with single metal atoms for the hydrogen production from formic acid. Catalysis Reviews - Science and Engineering, 2022, 64, 835-874.	12.9	33
2	Role of interface interactions in the sensitivity of sulfur-modified single-walled carbon nanotubes for nitrogen dioxide gas sensing. Carbon, 2022, 186, 539-549.	10.3	17
3	Bromination of carbon nanohorns to improve sodium-ion storage performance. Applied Surface Science, 2022, 580, 152238.	6.1	5
4	Photolysis of Fluorinated Graphites with Embedded Acetonitrile Using a White-Beam Synchrotron Radiation. Nanomaterials, 2022, 12, 231.	4.1	4
5	â€œMissingâ€•One-Dimensional Red-Phosphorus Chains Encapsulated within Single-Walled Carbon Nanotubes. ACS Nano, 2022, 16, 6002-6012.	14.6	14
6	Optical absorption and photoluminescence of partially fluorinated graphite crystallites. Carbon, 2022, 193, 98-106.	10.3	7
7	Cucurbit[6]uril as a co-catalyst forÂhydrogen production from formic acid. Materials Today Energy, 2022, 26, 100998.	4.7	4
8	Lithium-induced intralayer rearrangement of molybdenum disulfide: Effect of graphene coating. Applied Surface Science, 2022, 598, 153846.	6.1	5
9	Doping of Carbon Nanotubes with Encapsulated Phosphorus Chains. Inorganic Chemistry, 2022, 61, 9605-9614.	4.0	6
10	On the stability of Li intercalated fine-grained graphitic material. Carbon, 2021, 173, 792-799.	10.3	1
11	Nanoscale coupling of MoS2 and graphene via rapid thermal decomposition of ammonium tetrathiomolybdate and graphite oxide for boosting capacity of Li-ion batteries. Carbon, 2021, 173, 194-204.	10.3	25
12	Porosity and composition of nitrogen-doped carbon materials templated by the thermolysis products of calcium tartrate and their performance in electrochemical capacitors. Journal of Alloys and Compounds, 2021, 858, 158259.	5.5	11
13	Fluorine patterning of graphene: effects of fluorine content and temperature. Nanoscale, 2021, 13, 1206-1212.	5.6	11
14	Comment on â€œOn the Difficulties and Pitfalls with the Analysis of Solidâ€‘State 13C NMR Spectra in Graphitic Materialsâ€• Applied Magnetic Resonance, 2021, 52, 81-90.	1.2	1
15	Electrically activated chemical bath deposition of CdS on carbon nanotube arrays. Synthetic Metals, 2021, 273, 116671.	3.9	2
16	Iron induced porosity of the templated carbon for enhancement of electrochemical capacitance. Applied Surface Science, 2021, 543, 148565.	6.1	3
17	Enhancement of Volumetric Capacitance of Binder-Free Single-Walled Carbon Nanotube Film via Fluorination. Nanomaterials, 2021, 11, 1135.	4.1	6
18	Effect of Toluene Addition in an Electric Arc on Morphology, Surface Modification, and Oxidation Behavior of Carbon Nanohorns and Their Sedimentation in Water. Nanomaterials, 2021, 11, 992.	4.1	4

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19	Laser Patterning of Aligned Carbon Nanotubes Arrays: Morphology, Surface Structure, and Interaction with Terahertz Radiation. Materials, 2021, 14, 3275.	2.9	2
20	Ni-N4 sites in a single-atom Ni catalyst on N-doped carbon for hydrogen production from formic acid. Journal of Catalysis, 2021, 402, 264-274.	6.2	41
21	Balanced kinetics between electrodes by carbon cloth@ZIF-8 for high rate performance zinc-ion hybrid capacitors. Chemical Communications, 2021, 57, 8778-8781.	4.1	14
22	Redox reactions between acetonitrile and nitrogen dioxide in the interlayer space of fluorinated graphite matrices. Physical Chemistry Chemical Physics, 2021, 23, 10580-10590.	2.8	8
23	Preferred attachment of fluorine near oxygen-containing groups on the surface of double-walled carbon nanotubes. Applied Surface Science, 2020, 504, 144357.	6.1	19
24	Structure of Diamond Films Grown Using High-Speed Flow of a Thermally Activated CH4-H2 Gas Mixture. Materials, 2020, 13, 219.	2.9	9
25	Effect of ultrasound pretreatment on bromination of double-walled carbon nanotubes. Synthetic Metals, 2020, 259, 116233.	3.9	10
26	Synthesis of Porous Nanostructured MoS2 Materials in Thermal Shock Conditions and Their Performance in Lithium-Ion Batteries. ACS Applied Energy Materials, 2020, 3, 10802-10813.	5.1	8
27	Structure, functional composition and electrochemical properties of nitrogen-doped multi-walled carbon nanotubes synthesized using Coâ€“Mo, Niâ€“Mo and Feâ€“Mo catalysts. Materials Chemistry and Physics, 2020, 255, 123563.	4.0	6
28	Magnetic Properties of 1D Ironâ€“Sulfur Compounds Formed Inside Singleâ€Walled Carbon Nanotubes. Physica Status Solidi - Rapid Research Letters, 2020, 14, 2000291.	2.4	3
29	Laser beam patterning of carbon nanotube arrays for the work of electron field emitters in technical vacuum. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2020, 262, 114691.	3.5	5
30	Hydrothermal Activation of Porous Nitrogen-Doped Carbon Materials for Electrochemical Capacitors and Sodium-Ion Batteries. Nanomaterials, 2020, 10, 2163.	4.1	41
31	Chemiresistive Properties of Imprinted Fluorinated Graphene Films. Materials, 2020, 13, 3538.	2.9	11
32	Hydrogen Plasma Treatment of Aligned Multi-Walled Carbon Nanotube Arrays for Improvement of Field Emission Properties. Materials, 2020, 13, 4420.	2.9	5
33	Modulating the defects of graphene blocks by ball-milling for ultrahigh gravimetric and volumetric performance and fast sodium storage. Energy Storage Materials, 2020, 30, 287-295.	18.0	66
34	The synthesis of biphenyl through Câ€“H bond activation in benzene over a Pd catalyst supported on graphene oxide. New Journal of Chemistry, 2020, 44, 12178-12184.	2.8	7
35	Anode materials from MoS₂ and multilayered holey graphene for Li-ion batteries. Fullerenes Nanotubes and Carbon Nanostructures, 2020, 28, 328-334.	2.1	8
36	Electronic Structure of Nitrogen- and Phosphorus-Doped Graphenes Grown by Chemical Vapor Deposition Method. Materials, 2020, 13, 1173.	2.9	21

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37	Creation of metasurface from vertically aligned carbon nanotubes as versatile platform for ultra-light THz components. Nanotechnology, 2020, 31, 255703.	2.6	9
38	Room temperature synthesis of fluorinated graphite intercalation compounds with low fluorine loading of host matrix. Journal of Fluorine Chemistry, 2020, 232, 109482.	1.7	8
39	Sodium storage properties of thin phosphorus-doped graphene layers developed on the surface of nanodiamonds under hot pressing conditions. Fullerenes Nanotubes and Carbon Nanostructures, 2020, 28, 335-341.	2.1	4
40	Modification of structure and conductivity of nanohorns by toluene addition in carbon arc. Fullerenes Nanotubes and Carbon Nanostructures, 2020, 28, 342-347.	2.1	6
41	Light-Induced Sulfur Transport inside Single-Walled Carbon Nanotubes. Nanomaterials, 2020, 10, 818.	4.1	15
42	X-ray photoelectron study of electrical double layer at graphene/phosphoric acid interface. Applied Surface Science, 2020, 515, 146007.	6.1	4
43	Bromine polycondensation in pristine and fluorinated graphitic carbons. Nanoscale, 2019, 11, 15298-15306.	5.6	14
44	Pressureâ€Assisted Interface Engineering in MoS₂/Holey Graphene Hybrids for Improved Performance in Liâ€ion Batteries. Energy Technology, 2019, 7, 1900659.	3.8	10
45	Percolative Composites with Carbon Nanohorns: Low-Frequency and Ultra-High Frequency Response. Materials, 2019, 12, 1848.	2.9	7
46	Hydrogen Production from Formic Acid over Au Catalysts Supported on Carbon: Comparison with Au Catalysts Supported on SiO2 and Al2O3. Catalysts, 2019, 9, 376.	3.5	24
47	NEXAFS spectroscopy study of lithium interaction with nitrogen incorporated in porous graphitic material. Journal of Materials Science, 2019, 54, 11168-11178.	3.7	23
48	Holey graphene with enhanced near-infrared absorption: Experimental and DFT study. Applied Physics Letters, 2019, 114, .	3.3	9
49	Chlorinated holey double-walled carbon nanotubes for relative humidity sensors. Carbon, 2019, 148, 413-420.	10.3	33
50	Single Au Atoms on the Surface of N-Free and N-Doped Carbon: Interaction with Formic Acid and Methanol Molecules. Topics in Catalysis, 2019, 62, 508-517.	2.8	19
51	Effect of Charge Transfer upon Li- and Na-Ion Insertion in Fine-Grained Graphitic Material as Probed by NMR. ACS Applied Materials & Interfaces, 2019, 11, 9291-9300.	8.0	11
52	Effects of the Carbon Support Doping with Nitrogen for the Hydrogen Production from Formic Acid over Ni Catalysts. Energies, 2019, 12, 4111.	3.1	20
53	Effect of boron and nitrogen additives on structure and transport properties of arc-produced carbon. Carbon, 2019, 143, 660-668.	10.3	18
54	Phosphorus incorporation into graphitic material via hot pressing of graphite oxide and triphenylphosphine. Synthetic Metals, 2019, 248, 53-58.	3.9	15

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55	Graphitization of 13C enriched fine-grained graphitic material under high-pressure annealing. Carbon, 2019, 141, 323-330.	10.3	24
56	Creation of nanosized holes in graphene planes for improvement of rate capability of lithium-ion batteries. Nanotechnology, 2018, 29, 134001.	2.6	40
57	Iron-filled multi-walled carbon nanotubes for terahertz applications: effects of interfacial polarization, screening and anisotropy. Nanotechnology, 2018, 29, 174003.	2.6	11
58	Electrochemical Properties of the Ultrasonically Activated Thermally Expanded Graphiteâ€“Polyaniline Hybrid Material. Physica Status Solidi (B): Basic Research, 2018, 255, 1700516.	1.5	1
59	Highâ€Pressure Highâ€Temperature Synthesis of MoS₂/Holey Graphene Hybrids and Their Performance in Liâ€ion Batteries. Physica Status Solidi (B): Basic Research, 2018, 255, 1700262.	1.5	18
60	Carbon Nanotube Synthesis Using Feâ€Mo/MgO Catalyst with Different Ratios of CH₄ and H₂ Gases. Physica Status Solidi (B): Basic Research, 2018, 255, 1700274.	1.5	10
61	Electromagnetic Properties of Reduced Graphene Oxide Buckypapers Obtained by Different Reduction Procedures. Physica Status Solidi (B): Basic Research, 2018, 255, 1700271.	1.5	4
62	In situ XPS Observation of Selective NO_x Adsorption on the Oxygenated Graphene Films. Physica Status Solidi (B): Basic Research, 2018, 255, 1700267.	1.5	19
63	Effect of Hydrogen Fluoride Addition and Synthesis Temperature on the Structure of Doubleâ€Walled Carbon Nanotubes Fluorinated by Molecular Fluorine. Physica Status Solidi (B): Basic Research, 2018, 255, 1700261.	1.5	4
64	Fluorination as Effective Method for Tuning the Electromagnetic Response of Graphene. Physica Status Solidi (B): Basic Research, 2018, 255, 1700226.	1.5	7
65	Multiscale characterization of synthetic diamonds obtained by gas-jet deposition. Journal of Physics: Conference Series, 2018, 1105, 012132.	0.4	5
66	5. Characterization methods. , 2018, , 261-408.		0
67	Continuous synthesis of aligned carbon nanotube arrays on copper substrates using laser-activated gas jet. Applied Physics Letters, 2018, 113, .	3.3	4
68	Effect of Hot Pressing on the Electrochemical Performance of Multilayer Holey Graphene Materials in Liâ€ion Batteries. Physica Status Solidi (B): Basic Research, 2018, 255, 1800202.	1.5	6
69	Optical Properties of CdS Quantum Dots on Graphene. Journal of Structural Chemistry, 2018, 59, 870-876.	1.0	6
70	Structure and Electrochemical Properties of Carbon Nanotubes Synthesized with Catalysts Obtained by Decomposition of Co, Ni, and Fe Polyoxomolybdates Supported by MgO. Journal of Structural Chemistry, 2018, 59, 786-792.	1.0	7
71	Optimization of Parameters of Graphene Synthesis on Copper Foil at Low Methan Pressure. Journal of Structural Chemistry, 2018, 59, 759-765.	1.0	9
72	Electrical Transport in Devices Based on Edgeâ€Fluorinated Graphene. Advanced Electronic Materials, 2018, 4, 1800073.	5.1	11

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73	Effect of in-plane size of MoS2 nanoparticles grown over multilayer graphene on the electrochemical performance of anodes in Li-ion batteries. Electrochimica Acta, 2018, 283, 45-53.	5.2	17
74	Charge polarization in partially lithiated single-walled carbon nanotubes. Physical Chemistry Chemical Physics, 2018, 20, 22592-22599.	2.8	13
75	X-ray photoelectron spectroscopy study of the interaction of lithium with graphene. Physical Sciences Reviews, 2018, 3, .	0.8	0
76	Structure and supercapacitor properties of few-layer low-fluorinated graphene materials. Journal of Materials Science, 2018, 53, 13053-13066.	3.7	18
77	In Situ X-ray Photoelectron Spectroscopy Study of Lithium Interaction with Graphene and Nitrogen-Doped Graphene Films Produced by Chemical Vapor Deposition. Journal of Physical Chemistry C, 2017, 121, 5108-5114.	3.1	34
78	Copper on carbon materials: stabilization by nitrogen doping. Journal of Materials Chemistry A, 2017, 5, 10574-10583.	10.3	103
79	Advantage of graphene fluorination instead of oxygenation for restorable adsorption of gaseous ammonia and nitrogen dioxide. Carbon, 2017, 118, 225-232.	10.3	33
80	Localization of Ï€â€electron density in twisted bilayer graphene. Physica Status Solidi - Rapid Research Letters, 2017, 11, 1600367.	2.4	2
81	Factors Influencing the Performance of Pd/C Catalysts in the Green Production of Hydrogen from Formic Acid. ChemSusChem, 2017, 10, 720-730.	6.8	76
82	Multiscale characterization of 13C-enriched fine-grained graphitic materials for chemical and electrochemical applications. Carbon, 2017, 124, 161-169.	10.3	13
83	Single-Walled Carbon Nanotube Reactor for Redox Transformation of Mercury Dichloride. ACS Nano, 2017, 11, 8643-8649.	14.6	38
84	Fluorinated Surface of Carbon Nanotube Buckypaper for Uniform Growth of CdS Nanoparticles. Journal of Physical Chemistry C, 2017, 121, 19182-19190.	3.1	11
85	Effect of the graphite oxide composition on the structure of products obtained by sulfuric acid treatment at elevated temperatures. Journal of Structural Chemistry, 2017, 58, 1180-1186.	1.0	11
86	Tabby graphene: Dimensional magnetic crossover in fluorinated graphite. Scientific Reports, 2017, 7, 16544.	3.3	13
87	Functional composition and electrochemical characteristics of oxidized nanosized carbon. Journal of Structural Chemistry, 2017, 58, 1187-1195.	1.0	7
88	Structure of carbon nanoparticles synthesized by adiabatic compression of acetylene and their application in supercapacitors. Journal of Structural Chemistry, 2017, 58, 1196-1204.	1.0	6
89	An X-ray spectroscopy study of CdS nanoparticles formed by the Langmuirâ€“Blodgett technique on the surface of carbon nanotube arrays. Journal of Structural Chemistry, 2017, 58, 876-884.	1.0	3
90	Electronic Structure of Fluorinated Graphene. , 2017, , 177-213.		9

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91	X-ray spectroscopy study of lithiated graphite obtained by thermal deposition of lithium. Journal of Structural Chemistry, 2017, 58, 1173-1179.	1.0	12
92	One-step chemical vapor deposition synthesis and supercapacitor performance of nitrogen-doped porous carbonâ€“carbon nanotube hybrids. Beilstein Journal of Nanotechnology, 2017, 8, 2669-2679.	2.8	30
93	Effect of the fluorination technique on the surface-fluorination patterning of double-walled carbon nanotubes. Beilstein Journal of Nanotechnology, 2017, 8, 1688-1698.	2.8	35
94	Light polarizer in visible and THz range based on single-wall carbon nanotubes embedded into poly(methyl methacrylate) film. Laser Physics Letters, 2016, 13, 065901.	1.4	9
95	Effect of substrate temperature on the structure of amorphous oxygenated hydrocarbon films grown with a pulsed supersonic methane plasma flow. Applied Surface Science, 2016, 385, 464-471.	6.1	54
96	Spontaneous symmetry breaking during the switching of a buckled graphene membrane. JETP Letters, 2016, 103, 244-247.	1.4	4
97	Manyâ€body effects in optical response of grapheneâ€based structures. International Journal of Quantum Chemistry, 2016, 116, 270-281.	2.0	18
98	Single Atoms of Pt-Group Metals Stabilized by N-Doped Carbon Nanofibers for Efficient Hydrogen Production from Formic Acid. ACS Catalysis, 2016, 6, 3442-3451.	11.2	270
99	Enhanced supercapacitance of vertically aligned multiâ€wall carbon nanotube array covered by MoS₂ nanoparticles. Physica Status Solidi (B): Basic Research, 2016, 253, 2451-2456.	1.5	11
100	Insight into effect of water additive on carbon remaining in metal alloys after high-pressure high-temperature diamond synthesis. Diamond and Related Materials, 2016, 70, 46-51.	3.9	17
101	Leaky graphene oxide with high quantum yield and dual-wavelength photoluminescence. Carbon, 2016, 108, 461-470.	10.3	21
102	Supercapacitor performance of binderâ€free buckypapers from multiwall carbon nanotubes synthesized at different temperatures. Physica Status Solidi (B): Basic Research, 2016, 253, 2406-2412.	1.5	18
103	Thermally exfoliated fluorinated graphite for NO₂ gas sensing. Physica Status Solidi (B): Basic Research, 2016, 253, 2492-2498.	1.5	14
104	Effect of oxidative treatment on the electrochemical properties of aligned multi-walled carbon nanotubes. Russian Journal of Electrochemistry, 2016, 52, 441-448.	0.9	17
105	Magnetic studies of polystyrene/iron-filled multi-wall carbon nanotube composite films. Journal of Magnetism and Magnetic Materials, 2016, 415, 51-56.	2.3	4
106	Single Isolated Pd²⁺ Cations Supported on N-Doped Carbon as Active Sites for Hydrogen Production from Formic Acid Decomposition. ACS Catalysis, 2016, 6, 681-691.	11.2	252
107	Correlation between manufacturing processes and anisotropic magnetic and electromagnetic properties of carbon nanotube/polystyrene composites. Composites Part B: Engineering, 2016, 91, 505-512.	12.0	26
108	The influence of waterâ€“organic solvent composition on the morphology and luminescent properties of CdS nanoparticles obtained by chemical precipitation. Colloid Journal, 2016, 78, 30-36.	1.3	2

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109	Fabrication of free-standing aligned multiwalled carbon nanotube array for Li-ion batteries. Journal of Power Sources, 2016, 311, 42-48.	7.8	29
110	Assessing carbon nanotube arrangement in polystyrene matrix byÂmagnetic susceptibility measurements. Carbon, 2016, 96, 1077-1083.	10.3	17
111	Field emission properties of aligned CN_x nanotube arrays synthesized by pyrolysis of a ferrocene/acetonitrile aerosol at different temperatures. Physica Status Solidi (B): Basic Research, 2015, 252, 2524-2529.	1.5	9
112	Nitrogen species in few-layer graphene produced by thermal exfoliation of fluorinated graphite intercalation compounds. Physica Status Solidi (B): Basic Research, 2015, 252, 2444-2450.	1.5	14
113	Graphitic and pyridinic nitrogen in carbon nanotubes: energetic and polarization aspects. Journal of Nanophotonics, 2015, 10, 012510.	1.0	2
114	Polymer-assisted forge-rolling disaggregation of detonation nanodiamonds and onion-like carbon. International Journal of Nanotechnology, 2015, 12, 182.	0.2	8
115	Edge state magnetism in zigzag-interfaced graphene via spin susceptibility measurements. Scientific Reports, 2015, 5, 13382.	3.3	39
116	Niâ€“Mo and Coâ€“Mo alloy nanoparticles for catalytic chemical vapor deposition synthesis of carbon nanotubes. Journal of Alloys and Compounds, 2015, 621, 351-356.	5.5	77
117	Revealing distortion of carbon nanotube walls via angle-resolved X-ray spectroscopy. Current Applied Physics, 2015, 15, 1111-1116.	2.4	3
118	Controlling pyridinic, pyrrolic, graphitic, and molecular nitrogen in multi-wall carbon nanotubes using precursors with different N/C ratios in aerosol assisted chemical vapor deposition. Physical Chemistry Chemical Physics, 2015, 17, 23741-23747.	2.8	61
119	Pd Clusters Supported on Amorphous, Low-Porosity Carbon Spheres for Hydrogen Production from Formic Acid. ACS Applied Materials & Interfaces, 2015, 7, 8719-8726.	8.0	41
120	Field emission luminescence of nanodiamonds deposited on the aligned carbon nanotube array. Scientific Reports, 2015, 5, 9379.	3.3	52
121	Sensor properties of electron beam irradiated fluorinated graphite. Journal of Nanophotonics, 2015, 10, 012512.	1.0	10
122	Role of Defects in Carbon Nanotube Walls in Deposition of CdS Nanoparticles from a Chemical Bath. Journal of Physical Chemistry C, 2015, 119, 25898-25906.	3.1	10
123	A backside fluorine-functionalized graphene layer for ammonia detection. Physical Chemistry Chemical Physics, 2015, 17, 444-450.	2.8	42
124	Charge-induced formation of thin conducting layers on fluorinated graphite surface. Carbon, 2015, 82, 446-458.	10.3	25
125	Electromagnetic properties of phosphate composite materials with boron-containing carbon nanotubes. Physics of the Solid State, 2014, 56, 2537-2542.	0.6	7
126	Chlorination of perforated graphite via interaction with thionylchloride. Physica Status Solidi (B): Basic Research, 2014, 251, 2613-2619.	1.5	12

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127	Synthesis of nitrogenâ€containing porous carbon using calcium oxide nanoparticles. Physica Status Solidi (B): Basic Research, 2014, 251, 2607-2612.	1.5	36
128	Nitrogen inserting in fluorinated graphene via annealing of acetonitrile intercalated graphite fluoride. Physica Status Solidi (B): Basic Research, 2014, 251, 2530-2535.	1.5	19
129	Nanometer-Sized MoS₂ Clusters on Graphene Flakes for Catalytic Formic Acid Decomposition. ACS Catalysis, 2014, 4, 3950-3956.	11.2	49
130	Supercapacitor performance of vertically aligned multiwall carbon nanotubes produced by aerosol-assisted CCVD method. Electrochimica Acta, 2014, 139, 165-172.	5.2	49
131	Structure and supercapacitor performance of graphene materials obtained from brominated and fluorinated graphites. Carbon, 2014, 78, 137-146.	10.3	62
132	Effect of fabrication method on the structure and electromagnetic response of carbon nanotube/polystyrene composites in low-frequency and Ka bands. Composites Science and Technology, 2014, 102, 59-64.	7.8	22
133	Crystal and molecular structures of bis(2,2,6,6-tetramethyl-3-methylaminoheptan-5-onate) copper(II) and nickel(II). Journal of Structural Chemistry, 2014, 55, 488-492.	1.0	3
134	Energy shift of collective electron excitations in highly corrugated graphitic nanostructures: Experimental and theoretical investigation. Applied Physics Letters, 2014, 104, .	3.3	15
135	Supercapacitor performance of nitrogen-doped carbon nanotube arrays. Physica Status Solidi (B): Basic Research, 2013, 250, 2586-2591.	1.5	36
136	Anisotropic electromagnetic properties of polymer composites containing oriented multiwall carbon nanotubes in respect to terahertz polarizer applications. Journal of Applied Physics, 2013, 114, .	2.5	42
137	Fluorine Patterning in Room-Temperature Fluorinated Graphite Determined by Solid-State NMR and DFT. Journal of Physical Chemistry C, 2013, 117, 7940-7948.	3.1	51
138	Anisotropy of Chemical Bonding in Semifluorinated Graphite C₂F Revealed with Angle-Resolved X-ray Absorption Spectroscopy. ACS Nano, 2013, 7, 65-74.	14.6	61
139	Effect of nitrogen doping on the electromagnetic properties of carbon nanotube-based composites. Journal of Applied Physics, 2013, 113, .	2.5	56
140	Graphene nanochains and nanoislands in the layers of room-temperature fluorinated graphite. Carbon, 2013, 59, 518-529.	10.3	57
141	Photoluminescence of CdS nanoparticles grown on carbon nanotubes covered by a dielectric polymer layer. Physica Status Solidi (B): Basic Research, 2013, 250, 2759-2764.	1.5	3
142	Functional composition and super-capacitor properties of graphite oxide reduced with hot sulfuric acid. Physica Status Solidi (B): Basic Research, 2013, 250, 2747-2752.	1.5	17
143	Electro- and Photoluminescence of CdS Nanoparticles Deposited on Carbon Nanotubes. Journal of Nanoelectronics and Optoelectronics, 2013, 8, 36-41.	0.5	8
144	Field Emission Characteristics of Periodically Structured Carbon Nanotube Arrays. Journal of Nanoelectronics and Optoelectronics, 2013, 8, 52-57.	0.5	7

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145	Curvature-Induced Optical Transitions in Graphene. Fullerenes Nanotubes and Carbon Nanostructures, 2012, 20, 558-562.	2.1	9
146	Crystal structures of 1,1,1-trifluoro-4-hydroxy-4-phenyl-but-3-en-2-one, 2,2,6,6-tetramethyl-3-hydroxy-hept-3-en-5-one, 2,2,6,6-tetramethyl-3-methylamino-hept-3-en-5-one and a study of the ability of these ligands to complex formation with metals. Journal of Structural Chemistry, 2012, 53, 740-747.	1.0	8
147	Bromination of Double-Walled Carbon Nanotubes. Chemistry of Materials, 2012, 24, 2708-2715.	6.7	76
148	Crystallinity and electroluminescence efficiency of CdS nanoparticles grown on the aligned carbon nanotube array. Physica Status Solidi (B): Basic Research, 2012, 249, 2572-2575.	1.5	6
149	Perforation of graphite in boiling mineral acid. Physica Status Solidi (B): Basic Research, 2012, 249, 2620-2624.	1.5	16
150	X-ray spectroscopic study of the electronic structure of boron carbonitride films obtained by chemical vapor deposition on Co/Si and CoO x /Si substrates. Journal of Structural Chemistry, 2012, 53, 690-698.	1.0	4
151	Supercapacitor Performance of Aligned Carbon Nanotube/Polyaniline Composite Depending on the Duration of Aniline Polycondensation. Fullerenes Nanotubes and Carbon Nanostructures, 2012, 20, 519-522.	2.1	11
152	Thermal Decomposition of Co-Doped Calcium Tartrate and Use of the Products for Catalytic Chemical Vapor Deposition Synthesis of Carbon Nanotubes. Journal of Physical Chemistry C, 2012, 116, 343-351.	3.1	8
153	Anisotropic Permittivity of Multi-Walled Carbon Nanotube/Polystyrene Composites. Fullerenes Nanotubes and Carbon Nanostructures, 2012, 20, 523-526.	2.1	10
154	Iron nanoparticles in aligned arrays of pure and nitrogen-doped carbon nanotubes. Carbon, 2012, 50, 2628-2634.	10.3	31
155	Effect of oxidation and heat treatment on the morphology and electronic structure of carbon-encapsulated iron carbide nanoparticles. Materials Chemistry and Physics, 2012, 135, 235-240.	4.0	20
156	Structural Evolution and Magnetic Properties of Underfluorinated C2F. Journal of Superconductivity and Novel Magnetism, 2012, 25, 79-83.	1.8	11
157	Charge Transfer in the MoS₂/Carbon Nanotube Composite. Journal of Physical Chemistry C, 2011, 115, 21199-21204.	3.1	255
158	Electrochemical properties of nitrogen-doped carbon nanotube anode in Li-ion batteries. Carbon, 2011, 49, 4013-4023.	10.3	322
159	Layered compounds based on perforated graphene. Journal of Structural Chemistry, 2011, 52, 903-909.	1.0	11
160	Effect of iron nanoparticles in the films of composite materials and carbon nanotubes on the angular dependence of X-ray emission. Journal of Structural Chemistry, 2011, 52, 50-54.	1.0	0
161	Ab initio study of dielectric response of rippled graphene. Journal of Chemical Physics, 2011, 134, 244707.	3.0	72
162	Modification of the electronic structure in singleâ€walled carbon nanotubes with aromatic amines. Physica Status Solidi (B): Basic Research, 2011, 248, 2458-2461.	1.5	6

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163	Electronic state of polyaniline deposited on carbon nanotube or ordered mesoporous carbon templates. Physica Status Solidi (B): Basic Research, 2011, 248, 2484-2487.	1.5	24
164	Formation of MoS₂ nanoparticles on the surface of reduced graphite oxide. Physica Status Solidi (B): Basic Research, 2011, 248, 2740-2743.	1.5	32
165	Transmission of terahertz radiation by anisotropic MWCNT/polystyrene composite films. Physica Status Solidi (B): Basic Research, 2011, 248, 2568-2571.	1.5	23
166	Electronic structure of the chlorinated fullerene C₆₀Cl₃₀ studied by quantum chemical modeling of Xâ€ray absorption spectra. International Journal of Quantum Chemistry, 2011, 111, 2688-2695.	2.0	8
167	Substitutional sites of nitrogen atoms in carbon nanotubes and their influence on fieldâ€emission characteristics. International Journal of Quantum Chemistry, 2011, 111, 2696-2704.	2.0	14
168	Composites based on polyaniline and aligned carbon nanotubes. Polymer Science - Series B, 2010, 52, 101-108.	0.8	8
169	Synthesis of a hybrid material from CdS nanoparticles and carbon nanotubes. Russian Chemical Bulletin, 2010, 59, 1720-1723.	1.5	8
170	Electronic state of carbon in nanostructured composites produced by co-carbonization of aromatic heavy oil and ferrocene. Materials Chemistry and Physics, 2010, 122, 146-150.	4.0	8
171	Dielectric properties of polystyrene/onion-like carbon composites in frequency range of 0.5â€“500kHz. Composites Science and Technology, 2010, 70, 719-724.	7.8	26
172	Interaction of NH₃ with the reduced surface of graphite fluoride C₂F. Physica Status Solidi (B): Basic Research, 2010, 247, 3039-3042.	1.5	13
173	High reactivity of carbon nanotubes and fluorinated carbon nanotubes irradiated by Ar⁺ ions. Physica Status Solidi (B): Basic Research, 2010, 247, 2691-2694.	1.5	9
174	Fluorographene: A Twoâ€Dimensional Counterpart of Teflon. Small, 2010, 6, 2877-2884.	10.0	1,146
175	Magnetic Properties of Carbon Nanotubes with Low Content of Fe. Fullerenes Nanotubes and Carbon Nanostructures, 2010, 18, 569-573.	2.1	4
176	A comparative study of argon ion irradiated pristine and fluorinated single-wall carbon nanotubes. Journal of Chemical Physics, 2010, 133, 224706.	3.0	11
177	Formation of Mo3S4Nanoparticles on the Graphitic Substrate. Fullerenes Nanotubes and Carbon Nanostructures, 2010, 19, 39-43.	2.1	2
178	Stability of Fluorinated Double-Walled Carbon Nanotubes Produced by Different Fluorination Techniques. Chemistry of Materials, 2010, 22, 4197-4203.	6.7	49
179	Modulation of electronic density in waved graphite layers. Synthetic Metals, 2010, 160, 1848-1855.	3.9	15
180	X-Ray Absorption Spectra of N₂Molecules Embedded into CN_xNanotubes as a Marker of Orientation Ordering of Array. Fullerenes Nanotubes and Carbon Nanostructures, 2010, 18, 551-557.	2.1	8

#	Article	IF	Citations
181	XANES Investigation of Pristine and Fluorinated Single-Walled Carbon Nanotubes Before and After Annealing. Fullerenes Nanotubes and Carbon Nanostructures, 2010, 18, 595-599.	2.1	11
182	Growth of CdS nanoparticles on the aligned carbon nanotubes. Physical Chemistry Chemical Physics, 2010, 12, 10871.	2.8	25
183	Orientation ordering of N2 molecules in vertically aligned CN x nanotubes. Applied Physics A: Materials Science and Processing, 2009, 94, 437-443.	2.3	25
184	Comparative NEXAFS examination of singleâ€wall carbon nanotubes produced by different methods. Physica Status Solidi (B): Basic Research, 2009, 246, 2637-2640.	1.5	4
185	Development of graphene layers by reduction of graphite fluoride C₂F surface. Physica Status Solidi (B): Basic Research, 2009, 246, 2545-2548.	1.5	24
186	NEXAFS detection of graphitic layers formed in the process of carbon nanotube arrays synthesis. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2009, 603, 115-118.	1.6	7
187	Comparative study of fluorinated single- and few-wall carbon nanotubes by X-ray photoelectron and X-ray absorption spectroscopy. Carbon, 2009, 47, 1629-1636.	10.3	39
188	Catalytic synthesis of carbon nanotubes using Ni- and Co-doped calcium tartrates. Carbon, 2009, 47, 1701-1707.	10.3	26
189	Low-frequency (10â€“50 kHz) impedance of polystyrene-onion-like-carbon composites. Technical Physics Letters, 2009, 35, 85-88.	0.7	9
190	The field emission properties of carbon nanotubes and SiC whiskers synthesized over Ni particles deposited in ion tracks in SiO2. Nanotechnologies in Russia, 2009, 4, 627-633.	0.7	8
191	Phase states and magnetic properties of iron nanoparticles in carbon nanotube channels. Journal of Experimental and Theoretical Physics, 2009, 109, 254-261.	0.9	7
192	Influence of defects in the carbon network on the static polarizability of fullerenes. Physics of the Solid State, 2009, 51, 863-869.	0.6	6
193	Electronic structure of C60F36 studied by quantum-chemical modeling of experimental photoemission and x-ray absorption spectra. Journal of Chemical Physics, 2009, 130, 014704.	3.0	17
194	Maxwell-Garnett Description of Permittivity of Onion-Like Carbonâ€“Polystyrene Composites. Journal of Nanoelectronics and Optoelectronics, 2009, 4, 267-270.	0.5	6
195	X-ray spectral study of a material containing BN nanostructures. Journal of Structural Chemistry, 2008, 49, 40-46.	1.0	3
196	Effect of nitrogen doping on Raman spectra of multiâ€walled carbon nanotubes. Physica Status Solidi (B): Basic Research, 2008, 245, 1971-1974.	1.5	169
197	Optical absorption of boron nitride nanomaterials. Physica Status Solidi (B): Basic Research, 2008, 245, 2107-2110.	1.5	15
198	Double layer supercapacitor properties of onionâ€like carbon materials. Physica Status Solidi (B): Basic Research, 2008, 245, 2296-2299.	1.5	100

#	Article	IF	Citations
199	Effect of Fe/Ni catalyst composition on nitrogen doping and field emission properties of carbon nanotubes. Carbon, 2008, 46, 864-869.	10.3	35
200	Arrays of carbon nanotubes aligned perpendicular to the substrate surface: Anisotropy of structure and properties. Nanotechnologies in Russia, 2008, 3, 191-200.	0.7	32
201	Determination of the texture of arrays of aligned carbon nanotubes from the angular dependence of the X-ray emission and X-ray absorption spectra. Journal of Experimental and Theoretical Physics, 2008, 107, 517-525.	0.9	7
202	Growth of carbon nanotubes via chemical vapor deposition on Co catalyst nanoparticles dispersed in CaO. Inorganic Materials, 2008, 44, 213-218.	0.8	5
203	Soft X-ray spectroscopy and quantum chemistry characterization of defects in onion-like carbon produced by nanodiamond annealing. Diamond and Related Materials, 2007, 16, 1222-1226.	3.9	28
204	Surface electronic structure of detonation nanodiamonds after oxidative treatment. Diamond and Related Materials, 2007, 16, 2090-2092.	3.9	10
205	Electrochemical performance of arc-produced carbon nanotubes as anode material for lithium-ion batteries. Electrochimica Acta, 2007, 52, 5286-5293.	5.2	79
206	Electronic state of carbon in carbonaceous chondrite meteorites. Physica Status Solidi (B): Basic Research, 2007, 244, 3955-3959.	1.5	0
207	Encapsulation of molecular nitrogen in multiwall CNx nanotubes. Physica Status Solidi (B): Basic Research, 2007, 244, 4078-4081.	1.5	21
208	Growth of MoS2 layers on the surface of multiwalled carbon nanotubes. Inorganic Materials, 2007, 43, 236-239.	0.8	22
209	Synthesis of CNx nanotubes using catalysts prepared from zinc and nickel bimaleates. Inorganic Materials, 2007, 43, 945-950.	0.8	2
210	Study of thermal and mechanical properties of composites based on arc-grown carbon nanotubes and heat-resistant cyanoether binder. Polymer Science - Series A, 2007, 49, 702-707.	1.0	7
211	Study of the electronic structure and properties of 13C-isotope-based composites. Journal of Surface Investigation, 2007, 1, 645-650.	0.5	6
212	X-ray emission and X-ray photoelectron spectroscopic studies of fullerene fluoride C60F24. Physics of the Solid State, 2007, 49, 1195-1200.	0.6	4
213	Synthesis and structure of films consisting of carbon nanotubes oriented normally to the substrate. Technical Physics, 2007, 52, 1627-1631.	0.7	34
214	Optical Absorption and Raman Spectroscopy Study of the Fluorinated Doubleâ€Wall Carbon Nanotubes. Fullerenes Nanotubes and Carbon Nanostructures, 2006, 14, 233-238.	2.1	9
215	Electronic Structure and Fieldâ€Emission Properties of Nitrogenâ€Doped Carbon Nanotubes. Fullerenes Nanotubes and Carbon Nanostructures, 2006, 14, 151-164.	2.1	12
216	Fluorination of multiwall nitrogen-doped carbon nanotubes. Russian Journal of Inorganic Chemistry, 2006, 51, 613-618.	1.3	3

#	Article	IF	Citations
217	Determining misorientation of graphite grains from the angular dependence of X-ray emission spectra. Journal of Experimental and Theoretical Physics, 2006, 103, 604-610.	0.9	14
218	Electronic interactions in two-dimensional polymers of the C60 fullerene. Physics of the Solid State, 2006, 48, 185-191.	0.6	1
219	Effect of annealing on the optical absorption spectra of single-walled carbon nanotubes. Physics of the Solid State, 2006, 48, 1007-1011.	0.6	7
220	X-ray fluorescent spectroscopy and quantum chemistry investigation of electronic structure of the palladium[60]fullerene complex with bidentate ligand 1,1â€²-bis(diphenylphosphino)ferrocene. Journal of Molecular Structure, 2005, 749, 193-199.	3.6	1
221	Electronic structure of diamond/graphite composite nanoparticles. European Physical Journal D, 2005, 34, 157-160.	1.3	4
222	Electronic state of nitrogen incorporated into CNx nanotubes. European Physical Journal D, 2005, 34, 271-274.	1.3	19
223	Orientational effect of the texture of a carbon-nanotube film on CKÎ± a radiation intensity. JETP Letters, 2005, 81, 34-38.	1.4	19
224	Electronic state of nanodiamond/graphite interfaces. Applied Physics A: Materials Science and Processing, 2005, 81, 393-398.	2.3	8
225	Electron interactions in the (Î·2-C60)Pd[P(Ph2)C5H4]2Fe complex. Russian Chemical Bulletin, 2005, 54, 2730-2734.	1.5	0
226	Optical Absorption of Singleâ€Wall Carbon Nanotubes Produced by Arcâ€Discharge Method with Different Concentration of Ni/Co Catalyst. Fullerenes Nanotubes and Carbon Nanostructures, 2005, 12, 287-292.	2.1	0
227	Fluorination of CN x Nanotubes. Fullerenes Nanotubes and Carbon Nanostructures, 2005, 12, 99-104.	2.1	5
228	Effect of purification on the electron structure and field emission characteristics of a carbonaceous material containing single-wall carbon nanotubes. Journal of Experimental and Theoretical Physics, 2004, 99, 1244-1252.	0.9	11
229	Field emission from products of nanodiamond annealing. Carbon, 2004, 42, 1099-1102.	10.3	33
230	Electronic structure and arrangement of purified HiPco carbon nanotubes. Carbon, 2004, 42, 1095-1098.	10.3	10
231	Influence of Niâ€"Co Catalyst Composition on Nitrogen Content in Carbon Nanotubes. Journal of Physical Chemistry B, 2004, 108, 9048-9053.	2.6	114
232	Fluorination of Arc-Produced Carbon Material Containing Multiwall Nanotubes. Chemistry of Materials, 2002, 14, 1472-1476.	6.7	70
233	The temperature dependence of the electrical resistivity and the negative magnetoresistance of carbon nanoparticles. Physics of the Solid State, 2002, 44, 487-489.	0.6	9
234	Gas-phase synthesis of nitrogen-containing carbon nanotubes and their electronic properties. Physics of the Solid State, 2002, 44, 652-655.	0.6	29

#	Article	IF	Citations
235	Transport and magnetic properties of multiwall carbon nanotubes before and after bromination. Physics of the Solid State, 2002, 44, 659-662.	0.6	13
236	A study of the influence of structural imperfection on the electronic structure of carbon nanotubes by x-ray spectroscopy and quantum-chemical methods. Physics of the Solid State, 2002, 44, 663-665.	0.6	20
237	Comparative Study on the Electronic Structure of Arc-Discharge and Catalytic Carbon Nanotubes. Journal of Physical Chemistry B, 2001, 105, 4853-4859.	2.6	29
238	Anisotropic properties of carbonaceous material produced in arc discharge. Applied Physics A: Materials Science and Processing, 2001, 72, 481-486.	2.3	25
239	XAES study of carbon fluoride and carbon materials. Journal of Electron Spectroscopy and Related Phenomena, 2001, 114-116, 243-249.	1.7	3
240	Fluorinated cage multiwall carbon nanoparticles. Chemical Physics Letters, 2000, 322, 231-236.	2.6	46
241	X-ray spectroscopic study of graphite fluoride (C2F) n intercalated with benzene. Russian Chemical Bulletin, 2000, 49, 709-712.	1.5	3
242	NATURE OF CHEMICAL BONDING IN THE FLUORINATED CARBON COMPOUNDS. Reviews in Inorganic Chemistry, 1999, 19, 79-116.	4.1	17
243	Electronic Structure of the Fluorinated Fullerene C60F48. Journal of Physical Chemistry A, 1999, 103, 9921-9924.	2.5	18
244	X-ray Spectroscopic and Quantum-Chemical Characterization of Hydrofullerene C60H36. Journal of Physical Chemistry A, 1999, 103, 716-720.	2.5	25
245	Joint X-ray spectroscopic and quantum-chemical study of the electronic structure of pentafluorophenylalkyl ethers. Russian Chemical Bulletin, 1998, 47, 2362-2370.	1.5	0
246	Spatial structure of carbon nanotubes produced in arc discharge. , 1998, , .		0
247	Structure of chemical bonding in polymerized fullerene C/sub 60/. , 1998, , .		0
248	Investigation of electronic interactions in solid hydrogen fluoride. Journal of Structural Chemistry, 1997, 38, 570-577.	1.0	0