Lyubov Bulusheva

List of Publications by Year
in descending order

248 papers	6,826 citations	101384 36 h-index	82410 72 g-index
250 all docs	250 docs citations	250 times ranked	8423 citing authors

#	Article	IF	Citations
1	Fluorographene: A Twoâ€Dimensional Counterpart of Teflon. Small, 2010, 6, 2877-2884.	5.2	1,146
2	Electrochemical properties of nitrogen-doped carbon nanotube anode in Li-ion batteries. Carbon, 2011, 49, 4013-4023.	5.4	322
3	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.	5.5	270
4	Charge Transfer in the MoS₂/Carbon Nanotube Composite. Journal of Physical Chemistry C, 2011, 115, 21199-21204.	1.5	255
5	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.	5.5	252
6	Effect of nitrogen doping on Raman spectra of multiâ€walled carbon nanotubes. Physica Status Solidi (B): Basic Research, 2008, 245, 1971-1974.	0.7	169
7	Influence of Niâ”Co Catalyst Composition on Nitrogen Content in Carbon Nanotubes. Journal of Physical Chemistry B, 2004, 108, 9048-9053.	1.2	114
8	Copper on carbon materials: stabilization by nitrogen doping. Journal of Materials Chemistry A, 2017, 5, 10574-10583.	5.2	103
9	Double layer supercapacitor properties of onionâ€like carbon materials. Physica Status Solidi (B): Basic Research, 2008, 245, 2296-2299.	0.7	100
10	Electrochemical performance of arc-produced carbon nanotubes as anode material for lithium-ion batteries. Electrochimica Acta, 2007, 52, 5286-5293.	2.6	79
11	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.	2.8	77
12	Bromination of Double-Walled Carbon Nanotubes. Chemistry of Materials, 2012, 24, 2708-2715.	3.2	76
13	Factors Influencing the Performance of Pd/C Catalysts in the Green Production of Hydrogen from Formic Acid. ChemSusChem, 2017, 10, 720-730.	3.6	76
14	Ab initio study of dielectric response of rippled graphene. Journal of Chemical Physics, 2011, 134, 244707.	1.2	72
15	Fluorination of Arc-Produced Carbon Material Containing Multiwall Nanotubes. Chemistry of Materials, 2002, 14, 1472-1476.	3.2	70
16	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.	9.5	66
17	Structure and supercapacitor performance of graphene materials obtained from brominated and fluorinated graphites. Carbon, 2014, 78, 137-146.	5.4	62
18	Anisotropy of Chemical Bonding in Semifluorinated Graphite C₂F Revealed with Angle-Resolved X-ray Absorption Spectroscopy. ACS Nano, 2013, 7, 65-74.	7.3	61

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19	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.	1.3	61
20	Graphene nanochains and nanoislands in the layers of room-temperature fluorinated graphite. Carbon, 2013, 59, 518-529.	5.4	57
21	Effect of nitrogen doping on the electromagnetic properties of carbon nanotube-based composites. Journal of Applied Physics, 2013, 113, .	1.1	56
22	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.	3.1	54
23	Field emission luminescence of nanodiamonds deposited on the aligned carbon nanotube array. Scientific Reports, 2015, 5, 9379.	1.6	52
24	Fluorine Patterning in Room-Temperature Fluorinated Graphite Determined by Solid-State NMR and DFT. Journal of Physical Chemistry C, 2013, 117, 7940-7948.	1.5	51
25	Stability of Fluorinated Double-Walled Carbon Nanotubes Produced by Different Fluorination Techniques. Chemistry of Materials, 2010, 22, 4197-4203.	3.2	49
26	Nanometer-Sized MoS₂ Clusters on Graphene Flakes for Catalytic Formic Acid Decomposition. ACS Catalysis, 2014, 4, 3950-3956.	5.5	49
27	Supercapacitor performance of vertically aligned multiwall carbon nanotubes produced by aerosol-assisted CCVD method. Electrochimica Acta, 2014, 139, 165-172.	2.6	49
28	Fluorinated cage multiwall carbon nanoparticles. Chemical Physics Letters, 2000, 322, 231-236.	1.2	46
29	Anisotropic electromagnetic properties of polymer composites containing oriented multiwall carbon nanotubes in respect to terahertz polarizer applications. Journal of Applied Physics, 2013, 114, .	1.1	42
30	A backside fluorine-functionalized graphene layer for ammonia detection. Physical Chemistry Chemical Physics, 2015, 17, 444-450.	1.3	42
31	Pd Clusters Supported on Amorphous, Low-Porosity Carbon Spheres for Hydrogen Production from Formic Acid. ACS Applied Materials & Interfaces, 2015, 7, 8719-8726.	4.0	41
32	Hydrothermal Activation of Porous Nitrogen-Doped Carbon Materials for Electrochemical Capacitors and Sodium-Ion Batteries. Nanomaterials, 2020, 10, 2163.	1.9	41
33	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.	3.1	41
34	Creation of nanosized holes in graphene planes for improvement of rate capability of lithium-ion batteries. Nanotechnology, 2018, 29, 134001.	1.3	40
35	Comparative study of fluorinated single- and few-wall carbon nanotubes by X-ray photoelectron and X-ray absorption spectroscopy. Carbon, 2009, 47, 1629-1636.	5.4	39
36	Edge state magnetism in zigzag-interfaced graphene via spin susceptibility measurements. Scientific Reports, 2015, 5, 13382.	1.6	39

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37	Single-Walled Carbon Nanotube Reactor for Redox Transformation of Mercury Dichloride. ACS Nano, 2017, 11, 8643-8649.	7.3	38
38	Supercapacitor performance of nitrogen-doped carbon nanotube arrays. Physica Status Solidi (B): Basic Research, 2013, 250, 2586-2591.	0.7	36
39	Synthesis of nitrogenâ€containing porous carbon using calcium oxide nanoparticles. Physica Status Solidi (B): Basic Research, 2014, 251, 2607-2612.	0.7	36
40	Effect of Fe/Ni catalyst composition on nitrogen doping and field emission properties of carbon nanotubes. Carbon, 2008, 46, 864-869.	5.4	35
41	Effect of the fluorination technique on the surface-fluorination patterning of double-walled carbon nanotubes. Beilstein Journal of Nanotechnology, 2017, 8, 1688-1698.	1.5	35
42	Synthesis and structure of films consisting of carbon nanotubes oriented normally to the substrate. Technical Physics, 2007, 52, 1627-1631.	0.2	34
43	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.	1.5	34
44	Field emission from products of nanodiamond annealing. Carbon, 2004, 42, 1099-1102.	5.4	33
45	Advantage of graphene fluorination instead of oxygenation for restorable adsorption of gaseous ammonia and nitrogen dioxide. Carbon, 2017, 118, 225-232.	5.4	33
46	Chlorinated holey double-walled carbon nanotubes for relative humidity sensors. Carbon, 2019, 148, 413-420.	5.4	33
47	Catalysts with single metal atoms for the hydrogen production from formic acid. Catalysis Reviews - Science and Engineering, 2022, 64, 835-874.	5.7	33
48	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
49	Formation of MoS₂ nanoparticles on the surface of reduced graphite oxide. Physica Status Solidi (B): Basic Research, 2011, 248, 2740-2743.	0.7	32
50	Iron nanoparticles in aligned arrays of pure and nitrogen-doped carbon nanotubes. Carbon, 2012, 50, 2628-2634.	5.4	31
51	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.	1.5	30
52	Comparative Study on the Electronic Structure of Arc-Discharge and Catalytic Carbon Nanotubes. Journal of Physical Chemistry B, 2001, 105, 4853-4859.	1.2	29
53	Gas-phase synthesis of nitrogen-containing carbon nanotubes and their electronic properties. Physics of the Solid State, 2002, 44, 652-655.	0.2	29
54	Fabrication of free-standing aligned multiwalled carbon nanotube array for Li-ion batteries. Journal of Power Sources, 2016, 311, 42-48.	4.0	29

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55	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.	1.8	28
56	Catalytic synthesis of carbon nanotubes using Ni- and Co-doped calcium tartrates. Carbon, 2009, 47, 1701-1707.	5.4	26
57	Dielectric properties of polystyrene/onion-like carbon composites in frequency range of 0.5â€“500kHz. Composites Science and Technology, 2010, 70, 719-724.	3.8	26
58	Correlation between manufacturing processes and anisotropic magnetic and electromagnetic properties of carbon nanotube/polystyrene composites. Composites Part B: Engineering, 2016, 91, 505-512.	5.9	26
59	X-ray Spectroscopic and Quantum-Chemical Characterization of Hydrofullerene C60H36. Journal of Physical Chemistry A, 1999, 103, 716-720.	1.1	25
60	Anisotropic properties of carbonaceous material produced in arc discharge. Applied Physics A: Materials Science and Processing, 2001, 72, 481-486.	1.1	25
61	Orientation ordering of N2 molecules in vertically aligned CN x nanotubes. Applied Physics A: Materials Science and Processing, 2009, 94, 437-443.	1.1	25
62	Growth of CdS nanoparticles on the aligned carbon nanotubes. Physical Chemistry Chemical Physics, 2010, 12, 10871.	1.3	25
63	Charge-induced formation of thin conducting layers on fluorinated graphite surface. Carbon, 2015, 82, 446-458.	5.4	25
64	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.	5.4	25
65	Development of graphene layers by reduction of graphite fluoride C₂F surface. Physica Status Solidi (B): Basic Research, 2009, 246, 2545-2548.	0.7	24
66	Electronic state of polyaniline deposited on carbon nanotube or ordered mesoporous carbon templates. Physica Status Solidi (B): Basic Research, 2011, 248, 2484-2487.	0.7	24
67	Hydrogen Production from Formic Acid over Au Catalysts Supported on Carbon: Comparison with Au Catalysts Supported on SiO2 and Al2O3. Catalysts, 2019, 9, 376.	1.6	24
68	Graphitization of 13C enriched fine-grained graphitic material under high-pressure annealing. Carbon, 2019, 141, 323-330.	5.4	24
69	Transmission of terahertz radiation by anisotropic MWCNT/polystyrene composite films. Physica Status Solidi (B): Basic Research, 2011, 248, 2568-2571.	0.7	23
70	NEXAFS spectroscopy study of lithium interaction with nitrogen incorporated in porous graphitic material. Journal of Materials Science, 2019, 54, 11168-11178.	1.7	23
71	Growth of MoS2 layers on the surface of multiwalled carbon nanotubes. Inorganic Materials, 2007, 43, 236-239.	0.2	22
72	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.	3.8	22

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73	Encapsulation of molecular nitrogen in multiwall CNx nanotubes. Physica Status Solidi (B): Basic Research, 2007, 244, 4078-4081.	0.7	21
74	Leaky graphene oxide with high quantum yield and dual-wavelength photoluminescence. Carbon, 2016, 108, 461-470.	5.4	21
75	Electronic Structure of Nitrogen- and Phosphorus-Doped Graphenes Grown by Chemical Vapor Deposition Method. Materials, 2020, 13, 1173.	1.3	21
76	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.	0.2	20
77	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.	2.0	20
78	Effects of the Carbon Support Doping with Nitrogen for the Hydrogen Production from Formic Acid over Ni Catalysts. Energies, 2019, 12, 4111.	1.6	20
79	Electronic state of nitrogen incorporated into CNx nanotubes. European Physical Journal D, 2005, 34, 271-274.	0.6	19
80	Orientational effect of the texture of a carbon-nanotube film on CKÎ± a radiation intensity. JETP Letters, 2005, 81, 34-38.	0.4	19
81	Nitrogen inserting in fluorinated graphene via annealing of acetonitrile intercalated graphite fluoride. Physica Status Solidi (B): Basic Research, 2014, 251, 2530-2535.	0.7	19
82	In situ XPS Observation of Selective NO_x Adsorption on the Oxygenated Graphene Films. Physica Status Solidi (B): Basic Research, 2018, 255, 1700267.	0.7	19
83	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.	1.3	19
84	Preferred attachment of fluorine near oxygen-containing groups on the surface of double-walled carbon nanotubes. Applied Surface Science, 2020, 504, 144357.	3.1	19
85	Electronic Structure of the Fluorinated Fullerene C60F48. Journal of Physical Chemistry A, 1999, 103, 9921-9924.	1.1	18
86	Manyâ€body effects in optical response of grapheneâ€based structures. International Journal of Quantum Chemistry, 2016, 116, 270-281.	1.0	18
87	Supercapacitor performance of binderâ€free buckypapers from multiwall carbon nanotubes synthesized at different temperatures. Physica Status Solidi (B): Basic Research, 2016, 253, 2406-2412.	0.7	18
88	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.	0.7	18
89	Structure and supercapacitor properties of few-layer low-fluorinated graphene materials. Journal of Materials Science, 2018, 53, 13053-13066.	1.7	18
90	Effect of boron and nitrogen additives on structure and transport properties of arc-produced carbon. Carbon, 2019, 143, 660-668.	5.4	18

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91	NATURE OF CHEMICAL BONDING IN THE FLUORINATED CARBON COMPOUNDS. Reviews in Inorganic Chemistry, 1999, 19, 79-116.	1.8	17
92	Electronic structure of C60F36 studied by quantum-chemical modeling of experimental photoemission and x-ray absorption spectra. Journal of Chemical Physics, 2009, 130, 014704.	1.2	17
93	Functional composition and super-capacitor properties of graphite oxide reduced with hot sulfuric acid. Physica Status Solidi (B): Basic Research, 2013, 250, 2747-2752.	0.7	17
94	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.	1.8	17
95	Effect of oxidative treatment on the electrochemical properties of aligned multi-walled carbon nanotubes. Russian Journal of Electrochemistry, 2016, 52, 441-448.	0.3	17
96	Assessing carbon nanotube arrangement in polystyrene matrix byÂmagnetic susceptibility measurements. Carbon, 2016, 96, 1077-1083.	5.4	17
97	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.	2.6	17
98	Role of interface interactions in the sensitivity of sulfur-modified single-walled carbon nanotubes for nitrogen dioxide gas sensing. Carbon, 2022, 186, 539-549.	5.4	17
99	Perforation of graphite in boiling mineral acid. Physica Status Solidi (B): Basic Research, 2012, 249, 2620-2624.	0.7	16
100	Optical absorption of boron nitride nanomaterials. Physica Status Solidi (B): Basic Research, 2008, 245, 2107-2110.	0.7	15
101	Modulation of electronic density in waved graphite layers. Synthetic Metals, 2010, 160, 1848-1855.	2.1	15
102	Energy shift of collective electron excitations in highly corrugated graphitic nanostructures: Experimental and theoretical investigation. Applied Physics Letters, 2014, 104, .	1.5	15
103	Phosphorus incorporation into graphitic material via hot pressing of graphite oxide and triphenylphosphine. Synthetic Metals, 2019, 248, 53-58.	2.1	15
104	Light-Induced Sulfur Transport inside Single-Walled Carbon Nanotubes. Nanomaterials, 2020, 10, 818.	1.9	15
105	Determining misorientation of graphite grains from the angular dependence of X-ray emission spectra. Journal of Experimental and Theoretical Physics, 2006, 103, 604-610.	0.2	14
106	Substitutional sites of nitrogen atoms in carbon nanotubes and their influence on fieldâ€emission characteristics. International Journal of Quantum Chemistry, 2011, 111, 2696-2704.	1.0	14
107	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.	0.7	14
108	Thermally exfoliated fluorinated graphite for NO₂ gas sensing. Physica Status Solidi (B): Basic Research, 2016, 253, 2492-2498.	0.7	14

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109	Bromine polycondensation in pristine and fluorinated graphitic carbons. Nanoscale, 2019, 11, 15298-15306.	2.8	14
110	Balanced kinetics between electrodes by carbon cloth@ZIF-8 for high rate performance zinc-ion hybrid capacitors. Chemical Communications, 2021, 57, 8778-8781.	2.2	14
111	â€œMissingâ€•One-Dimensional Red-Phosphorus Chains Encapsulated within Single-Walled Carbon Nanotubes. ACS Nano, 2022, 16, 6002-6012.	7.3	14
112	Transport and magnetic properties of multiwall carbon nanotubes before and after bromination. Physics of the Solid State, 2002, 44, 659-662.	0.2	13
113	Interaction of NH₃ with the reduced surface of graphite fluoride C₂F. Physica Status Solidi (B): Basic Research, 2010, 247, 3039-3042.	0.7	13
114	Multiscale characterization of 13C-enriched fine-grained graphitic materials for chemical and electrochemical applications. Carbon, 2017, 124, 161-169.	5.4	13
115	Tabby graphene: Dimensional magnetic crossover in fluorinated graphite. Scientific Reports, 2017, 7, 16544.	1.6	13
116	Charge polarization in partially lithiated single-walled carbon nanotubes. Physical Chemistry Chemical Physics, 2018, 20, 22592-22599.	1.3	13
117	Electronic Structure and Fieldâ€Emission Properties of Nitrogenâ€Doped Carbon Nanotubes. Fullerenes Nanotubes and Carbon Nanostructures, 2006, 14, 151-164.	1.0	12
118	Chlorination of perforated graphite via interaction with thionylchloride. Physica Status Solidi (B): Basic Research, 2014, 251, 2613-2619.	0.7	12
119	X-ray spectroscopy study of lithiated graphite obtained by thermal deposition of lithium. Journal of Structural Chemistry, 2017, 58, 1173-1179.	0.3	12
120	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.	0.2	11
121	A comparative study of argon ion irradiated pristine and fluorinated single-wall carbon nanotubes. Journal of Chemical Physics, 2010, 133, 224706.	1.2	11
122	XANES Investigation of Pristine and Fluorinated Single-Walled Carbon Nanotubes Before and After Annealing. Fullerenes Nanotubes and Carbon Nanostructures, 2010, 18, 595-599.	1.0	11
123	Layered compounds based on perforated graphene. Journal of Structural Chemistry, 2011, 52, 903-909.	0.3	11
124	Supercapacitor Performance of Aligned Carbon Nanotube/Polyaniline Composite Depending on the Duration of Aniline Polycondensation. Fullerenes Nanotubes and Carbon Nanostructures, 2012, 20, 519-522.	1.0	11
125	Structural Evolution and Magnetic Properties of Underfluorinated C2F. Journal of Superconductivity and Novel Magnetism, 2012, 25, 79-83.	0.8	11
126	Enhanced supercapacitance of vertically aligned multiâ€wall carbon nanotube array covered by MoS₂ nanoparticles. Physica Status Solidi (B): Basic Research, 2016, 253, 2451-2456.	0.7	11

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127	Fluorinated Surface of Carbon Nanotube Buckypaper for Uniform Growth of CdS Nanoparticles. Journal of Physical Chemistry C, 2017, 121, 19182-19190.	1.5	11
128	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.	0.3	11
129	Iron-filled multi-walled carbon nanotubes for terahertz applications: effects of interfacial polarization, screening and anisotropy. Nanotechnology, 2018, 29, 174003.	1.3	11
130	Electrical Transport in Devices Based on Edgeâ€Fluorinated Graphene. Advanced Electronic Materials, 2018, 4, 1800073.	2.6	11
131	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.	4.0	11
132	Chemiresistive Properties of Imprinted Fluorinated Graphene Films. Materials, 2020, 13, 3538.	1.3	11
133	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.	2.8	11
134	Fluorine patterning of graphene: effects of fluorine content and temperature. Nanoscale, 2021, 13, 1206-1212.	2.8	11
135	Electronic structure and arrangement of purified HiPco carbon nanotubes. Carbon, 2004, 42, 1095-1098.	5.4	10
136	Surface electronic structure of detonation nanodiamonds after oxidative treatment. Diamond and Related Materials, 2007, 16, 2090-2092.	1.8	10
137	Anisotropic Permittivity of Multi-Walled Carbon Nanotube/Polystyrene Composites. Fullerenes Nanotubes and Carbon Nanostructures, 2012, 20, 523-526.	1.0	10
138	Sensor properties of electron beam irradiated fluorinated graphite. Journal of Nanophotonics, 2015, 10, 012512.	0.4	10
139	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.	1.5	10
140	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.	0.7	10
141	Pressureâ€Assisted Interface Engineering in MoS₂/Holey Graphene Hybrids for Improved Performance in Liâ€ion Batteries. Energy Technology, 2019, 7, 1900659.	1.8	10
142	Effect of ultrasound pretreatment on bromination of double-walled carbon nanotubes. Synthetic Metals, 2020, 259, 116233.	2.1	10
143	The temperature dependence of the electrical resistivity and the negative magnetoresistance of carbon nanoparticles. Physics of the Solid State, 2002, 44, 487-489.	0.2	9
144	Optical Absorption and Raman Spectroscopy Study of the Fluorinated Doubleâ€Wall Carbon Nanotubes. Fullerenes Nanotubes and Carbon Nanostructures, 2006, 14, 233-238.	1.0	9

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145	Low-frequency (10â€“50 kHz) impedance of polystyrene-onion-like-carbon composites. Technical Physics Letters, 2009, 35, 85-88.	0.2	9
146	High reactivity of carbon nanotubes and fluorinated carbon nanotubes irradiated by Ar⁺ ions. Physica Status Solidi (B): Basic Research, 2010, 247, 2691-2694.	0.7	9
147	Curvature-Induced Optical Transitions in Graphene. Fullerenes Nanotubes and Carbon Nanostructures, 2012, 20, 558-562.	1.0	9
148	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.	0.7	9
149	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.	0.6	9
150	Electronic Structure of Fluorinated Graphene. , 2017, , 177-213.		9
151	Optimization of Parameters of Graphene Synthesis on Copper Foil at Low Methan Pressure. Journal of Structural Chemistry, 2018, 59, 759-765.	0.3	9
152	Holey graphene with enhanced near-infrared absorption: Experimental and DFT study. Applied Physics Letters, 2019, 114, .	1.5	9
153	Structure of Diamond Films Grown Using High-Speed Flow of a Thermally Activated CH4-H2 Gas Mixture. Materials, 2020, 13, 219.	1.3	9
154	Creation of metasurface from vertically aligned carbon nanotubes as versatile platform for ultra-light THz components. Nanotechnology, 2020, 31, 255703.	1.3	9
155	Electronic state of nanodiamond/graphite interfaces. Applied Physics A: Materials Science and Processing, 2005, 81, 393-398.	1.1	8
156	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
157	Composites based on polyaniline and aligned carbon nanotubes. Polymer Science - Series B, 2010, 52, 101-108.	0.3	8
158	Synthesis of a hybrid material from CdS nanoparticles and carbon nanotubes. Russian Chemical Bulletin, 2010, 59, 1720-1723.	0.4	8
159	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.	2.0	8
160	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.	1.0	8
161	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.	1.0	8
162	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.	0.3	8

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163	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.	1.5	8
164	Polymer-assisted forge-rolling disaggregation of detonation nanodiamonds and onion-like carbon. International Journal of Nanotechnology, 2015, 12, 182.	0.1	8
165	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.	2.5	8
166	Anode materials from MoS₂ and multilayered holey graphene for Li-ion batteries. Fullerenes Nanotubes and Carbon Nanostructures, 2020, 28, 328-334.	1.0	8
167	Room temperature synthesis of fluorinated graphite intercalation compounds with low fluorine loading of host matrix. Journal of Fluorine Chemistry, 2020, 232, 109482.	0.9	8
168	Redox reactions between acetonitrile and nitrogen dioxide in the interlayer space of fluorinated graphite matrices. Physical Chemistry Chemical Physics, 2021, 23, 10580-10590.	1.3	8
169	Electro- and Photoluminescence of CdS Nanoparticles Deposited on Carbon Nanotubes. Journal of Nanoelectronics and Optoelectronics, 2013, 8, 36-41.	0.1	8
170	Effect of annealing on the optical absorption spectra of single-walled carbon nanotubes. Physics of the Solid State, 2006, 48, 1007-1011.	0.2	7
171	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.	0.4	7
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