Alexander Okotrub

List of Publications by Year
in descending order

351	7,676	87888	79698
papers	citations	38 h-index	73 g-index

354	354	354	9155
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Fluorographene: A Twoâ€Dimensional Counterpart of Teflon. Small, 2010, 6, 2877-2884.	10.0	1,146
2	Electrochemical properties of nitrogen-doped carbon nanotube anode in Li-ion batteries. Carbon, 2011, 49, 4013-4023.	10.3	322
3	Charge Transfer in the MoS₂/Carbon Nanotube Composite. Journal of Physical Chemistry C, 2011, 115, 21199-21204.	3.1	255
4	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
5	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
6	Spectroscopic and electrochemical characterization of the surface layers of chalcopyrite (CuFeS2) reacted in acidic solutions. Applied Surface Science, 2004, 225, 395-409.	6.1	127
7	Influence of Niâ^'Co Catalyst Composition on Nitrogen Content in Carbon Nanotubes. Journal of Physical Chemistry B, 2004, 108, 9048-9053.	2.6	114
8	â€œButterfly Effectâ€•in CuO/Graphene Composite Nanosheets: A Small Interfacial Adjustment Triggers Big Changes in Electronic Structure and Li-Ion Storage Performance. ACS Applied Materials & Interfaces, 2014, 6, 17236-17244.	8.0	110
9	Copper on carbon materials: stabilization by nitrogen doping. Journal of Materials Chemistry A, 2017, 5, 10574-10583.	10.3	103
10	Double layer supercapacitor properties of onionâ€like carbon materials. Physica Status Solidi (B): Basic Research, 2008, 245, 2296-2299.	1.5	100
11	Electrochemical performance of arc-produced carbon nanotubes as anode material for lithium-ion batteries. Electrochimica Acta, 2007, 52, 5286-5293.	5.2	79
12	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
13	Bromination of Double-Walled Carbon Nanotubes. Chemistry of Materials, 2012, 24, 2708-2715.	6.7	76
14	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
15	Ab initio study of dielectric response of rippled graphene. Journal of Chemical Physics, 2011, 134, 244707.	3.0	72
16	Fluorination of Arc-Produced Carbon Material Containing Multiwall Nanotubes. Chemistry of Materials, 2002, 14, 1472-1476.	6.7	70
17	Electronic Structure of (n,0) Zigzag Carbon Nanotubes:Â Cluster and Crystal Approach. Journal of Physical Chemistry A, 1998, 102, 975-981.	2.5	66
18	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

#	Article	IF	Citations
19	X-ray Emission Studies of the Valence Band of Nanodiamonds Annealed at Different Temperatures. Journal of Physical Chemistry A, 2001, 105, 9781-9787.	2.5	64
20	Structure and supercapacitor performance of graphene materials obtained from brominated and fluorinated graphites. Carbon, 2014, 78, 137-146.	10.3	62
21	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
22	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
23	Graphene nanochains and nanoislands in the layers of room-temperature fluorinated graphite. Carbon, 2013, 59, 518-529.	10.3	57
24	Effect of nitrogen doping on the electromagnetic properties of carbon nanotube-based composites. Journal of Applied Physics, 2013, 113, .	2.5	56
25	Field emission luminescence of nanodiamonds deposited on the aligned carbon nanotube array. Scientific Reports, 2015, 5, 9379.	3.3	52
26	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
27	Stability of Fluorinated Double-Walled Carbon Nanotubes Produced by Different Fluorination Techniques. Chemistry of Materials, 2010, 22, 4197-4203.	6.7	49
28	Nanometer-Sized MoS₂ Clusters on Graphene Flakes for Catalytic Formic Acid Decomposition. ACS Catalysis, 2014, 4, 3950-3956.	11.2	49
29	Supercapacitor performance of vertically aligned multiwall carbon nanotubes produced by aerosol-assisted CCVD method. Electrochimica Acta, 2014, 139, 165-172.	5.2	49
30	Fluorinated cage multiwall carbon nanoparticles. Chemical Physics Letters, 2000, 322, 231-236.	2.6	46
31	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
32	A backside fluorine-functionalized graphene layer for ammonia detection. Physical Chemistry Chemical Physics, 2015, 17, 444-450.	2.8	42
33	Reactivity of pyrrhotite (Fe9S10) surfaces: Spectroscopic studies. Physical Chemistry Chemical Physics, 2000, 2, 4393-4398.	2.8	41
34	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
35	Hydrothermal Activation of Porous Nitrogen-Doped Carbon Materials for Electrochemical Capacitors and Sodium-Ion Batteries. Nanomaterials, 2020, 10, 2163.	4.1	41
36	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

#	Article	IF	Citations
37	CKÎ± - Spectra and Investigation of Electronic Structure of Fullerene Compounds. Fullerenes, Nanotubes, and Carbon Nanostructures, 1998, 6, 405-432.	0.6	40
38	Creation of nanosized holes in graphene planes for improvement of rate capability of lithium-ion batteries. Nanotechnology, 2018, 29, 134001.	2.6	40
39	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
40	Edge state magnetism in zigzag-interfaced graphene via spin susceptibility measurements. Scientific Reports, 2015, 5, 13382.	3.3	39
41	Single-Walled Carbon Nanotube Reactor for Redox Transformation of Mercury Dichloride. ACS Nano, 2017, 11, 8643-8649.	14.6	38
42	Supercapacitor performance of nitrogen-doped carbon nanotube arrays. Physica Status Solidi (B): Basic Research, 2013, 250, 2586-2591.	1.5	36
43	Synthesis of nitrogenâ€containing porous carbon using calcium oxide nanoparticles. Physica Status Solidi (B): Basic Research, 2014, 251, 2607-2612.	1.5	36
44	Effect of Fe/Ni catalyst composition on nitrogen doping and field emission properties of carbon nanotubes. Carbon, 2008, 46, 864-869.	10.3	35
45	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
46	Synthesis and structure of films consisting of carbon nanotubes oriented normally to the substrate. Technical Physics, 2007, 52, 1627-1631.	0.7	34
47	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
48	Field emission from products of nanodiamond annealing. Carbon, 2004, 42, 1099-1102.	10.3	33
49	Advantage of graphene fluorination instead of oxygenation for restorable adsorption of gaseous ammonia and nitrogen dioxide. Carbon, 2017, 118, 225-232.	10.3	33
50	Chlorinated holey double-walled carbon nanotubes for relative humidity sensors. Carbon, 2019, 148, 413-420.	10.3	33
51	Fe nanowires in carbon nanotubes as an example of a one-dimensional system of exchange-coupled ferromagnetic nanoparticles. JETP Letters, 2003, 78, 236-240.	1.4	32
52	Magnetic properties of Fe3C ferromagnetic nanoparticles encapsulated in carbon nanotubes. Physics of the Solid State, 2007, 49, 734-738.	0.6	32
53	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
54	Formation of MoS₂ nanoparticles on the surface of reduced graphite oxide. Physica Status Solidi (B): Basic Research, 2011, 248, 2740-2743.	1.5	32

#	Article	IF	Citations
55	MWCNT buckypaper/polypyrrole nanocomposites for supercapasitor application. Electrochimica Acta, 2020, 335, 135700.	5.2	32
56	Iron nanoparticles in aligned arrays of pure and nitrogen-doped carbon nanotubes. Carbon, 2012, 50, 2628-2634.	10.3	31
57	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
58	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
59	Gas-phase synthesis of nitrogen-containing carbon nanotubes and their electronic properties. Physics of the Solid State, 2002, 44, 652-655.	0.6	29
60	Fabrication of free-standing aligned multiwalled carbon nanotube array for Li-ion batteries. Journal of Power Sources, 2016, 311, 42-48.	7.8	29
61	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
62	Wrinkled reduced graphene oxide nanosheets for highly sensitive and easy recoverable NH₃ gas detector. RSC Advances, 2014, 4, 46930-46933.	3.6	28
63	Phosphate ceramics â^' carbon nanotubes composites:liquid aluminum phosphate vs solid magnesium phosphate binder. Ceramics International, 2015, 41, 12147-12152.	4.8	28
64	Purification of Singleâ€Walled Carbon Nanotubes Using Acid Treatment and Magnetic Separation. Physica Status Solidi (B): Basic Research, 2019, 256, 1800742.	1.5	28
65	Anisotropy of the electromagnetic properties of polymer composites based on multiwall carbon nanotubes in the gigahertz frequency range. JETP Letters, 2011, 93, 607-611.	1.4	27
66	Electron spectroscopy of carbon materials: experiment and theory. Journal of Physics: Conference Series, 2006, 26, 149-152.	0.4	26
67	Catalytic synthesis of carbon nanotubes using Ni- and Co-doped calcium tartrates. Carbon, 2009, 47, 1701-1707.	10.3	26
68	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
69	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
70	X-ray Spectroscopic and Quantum-Chemical Characterization of Hydrofullerene C60H36. Journal of Physical Chemistry A, 1999, 103, 716-720.	2.5	25
71	Anisotropic properties of carbonaceous material produced in arc discharge. Applied Physics A: Materials Science and Processing, 2001, 72, 481-486.	2.3	25
72	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

#	Article	IF	Citations
73	Growth of CdS nanoparticles on the aligned carbon nanotubes. Physical Chemistry Chemical Physics, 2010, 12, 10871.	2.8	25
74	Charge-induced formation of thin conducting layers on fluorinated graphite surface. Carbon, 2015, 82, 446-458.	10.3	25
75	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
76	Development of graphene layers by reduction of graphite fluoride C₂F surface. Physica Status Solidi (B): Basic Research, 2009, 246, 2545-2548.	1.5	24
77	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
78	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
79	Graphitization of 13C enriched fine-grained graphitic material under high-pressure annealing. Carbon, 2019, 141, 323-330.	10.3	24
80	Thermal Behavior of Fluorinated Double-Walled Carbon Nanotubes. Chemistry of Materials, 2006, 18, 4967-4971.	6.7	23
81	Transmission of terahertz radiation by anisotropic MWCNT/polystyrene composite films. Physica Status Solidi (B): Basic Research, 2011, 248, 2568-2571.	1.5	23
82	NEXAFS spectroscopy study of lithium interaction with nitrogen incorporated in porous graphitic material. Journal of Materials Science, 2019, 54, 11168-11178.	3.7	23
83	Electronic structure and properties of rhombohedrally polymerized C60. Journal of Chemical Physics, 2001, 115, 5637-5641.	3.0	22
84	Growth of MoS2 layers on the surface of multiwalled carbon nanotubes. Inorganic Materials, 2007, 43, 236-239.	0.8	22
85	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
86	Encapsulation of molecular nitrogen in multiwall CNx nanotubes. Physica Status Solidi (B): Basic Research, 2007, 244, 4078-4081.	1.5	21
87	Leaky graphene oxide with high quantum yield and dual-wavelength photoluminescence. Carbon, 2016, 108, 461-470.	10.3	21
88	Electronic Structure of Nitrogen- and Phosphorus-Doped Graphenes Grown by Chemical Vapor Deposition Method. Materials, 2020, 13, 1173.	2.9	21
89	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
90	Magnetic ordering inC60polymers with partially broken intermolecular bonds. Physical Review B, 2004, 70, .	3.2	20

#	Article	IF	Citations
91	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
92	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
93	Electronic state of nitrogen incorporated into CNx nanotubes. European Physical Journal D, 2005, 34, 271-274.	1.3	19
94	Orientational effect of the texture of a carbon-nanotube film on CKÎ± a radiation intensity. JETP Letters, 2005, 81, 34-38.	1.4	19
95	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
96	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
97	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
98	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
99	Engineering selenium-doped nitrogen-rich carbon nanosheets as anode materials for enhanced Na-Ion storage. Journal of Power Sources, 2021, 493, 229700.	7.8	19
100	X-ray spectroscopic and quantumâ€“chemical study of carbon tubes produced in arc-discharge. Chemical Physics Letters, 1998, 289, 341-349.	2.6	18
101	Electronic Structure of the Fluorinated Fullerene C60F48. Journal of Physical Chemistry A, 1999, 103, 9921-9924.	2.5	18
102	Manyâ€body effects in optical response of grapheneâ€based structures. International Journal of Quantum Chemistry, 2016, 116, 270-281.	2.0	18
103	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
104	How effectively do carbon nanotube inclusions contribute to the electromagnetic performance of a composite material? Estimation criteria from microwave and terahertz measurements. Carbon, 2018, 129, 688-694.	10.3	18
105	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
106	Structure and supercapacitor properties of few-layer low-fluorinated graphene materials. Journal of Materials Science, 2018, 53, 13053-13066.	3.7	18
107	Effect of boron and nitrogen additives on structure and transport properties of arc-produced carbon. Carbon, 2019, 143, 660-668.	10.3	18
108	NATURE OF CHEMICAL BONDING IN THE FLUORINATED CARBON COMPOUNDS. Reviews in Inorganic Chemistry, 1999, 19, 79-116.	4.1	17

#	Article	IF	Citations
109	Stability, electronic structure and reactivity of the polymerized fullerite forms. Journal of Physics and Chemistry of Solids, 2000, 61, 1901-1911.	4.0	17
110	Magnetic anisotropy in the films of oriented carbon nanotubes filled with iron nanoparticles. Technical Physics Letters, 2005, 31, 454-456.	0.7	17
111	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
112	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
113	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
114	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
115	Assessing carbon nanotube arrangement in polystyrene matrix byÂmagnetic susceptibility measurements. Carbon, 2016, 96, 1077-1083.	10.3	17
116	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
117	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
118	Perforation of graphite in boiling mineral acid. Physica Status Solidi (B): Basic Research, 2012, 249, 2620-2624.	1.5	16
119	Modifications to the electronic structure of carbon nanotubes with symmetric and random vacancies. International Journal of Quantum Chemistry, 2004, 96, 239-246.	2.0	15
120	Optical absorption of boron nitride nanomaterials. Physica Status Solidi (B): Basic Research, 2008, 245, 2107-2110.	1.5	15
121	Modulation of electronic density in waved graphite layers. Synthetic Metals, 2010, 160, 1848-1855.	3.9	15
122	Energy shift of collective electron excitations in highly corrugated graphitic nanostructures: Experimental and theoretical investigation. Applied Physics Letters, 2014, 104, .	3.3	15
123	Phosphorus incorporation into graphitic material via hot pressing of graphite oxide and triphenylphosphine. Synthetic Metals, 2019, 248, 53-58.	3.9	15
124	Light-Induced Sulfur Transport inside Single-Walled Carbon Nanotubes. Nanomaterials, 2020, 10, 818.	4.1	15
125	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
126	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

#	Article	IF	Citations
127	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
128	RNA-modified carbon nanotube arrays recognizing RNA via electrochemical capacitance response. Materials and Design, 2016, 100, 67-72.	7.0	14
129	Thermally exfoliated fluorinated graphite for NO₂ gas sensing. Physica Status Solidi (B): Basic Research, 2016, 253, 2492-2498.	1.5	14
130	Bromine polycondensation in pristine and fluorinated graphitic carbons. Nanoscale, 2019, 11, 15298-15306.	5.6	14
131	Simulated Raman spectra of bulk and low-dimensional phosphorus allotropes. Physical Chemistry Chemical Physics, 2021, 23, 16611-16622.	2.8	14
132	â€œMissingâ€•One-Dimensional Red-Phosphorus Chains Encapsulated within Single-Walled Carbon Nanotubes. ACS Nano, 2022, 16, 6002-6012.	14.6	14
133	Investigation of the Electronic Structure of C60F24. Journal of Physical Chemistry A, 1997, 101, 10018-10028.	2.5	13
134	Transport and magnetic properties of multiwall carbon nanotubes before and after bromination. Physics of the Solid State, 2002, 44, 659-662.	0.6	13
135	Interaction of NH₃ with the reduced surface of graphite fluoride C₂F. Physica Status Solidi (B): Basic Research, 2010, 247, 3039-3042.	1.5	13
136	Multiscale characterization of 13C-enriched fine-grained graphitic materials for chemical and electrochemical applications. Carbon, 2017, 124, 161-169.	10.3	13
137	Tabby graphene: Dimensional magnetic crossover in fluorinated graphite. Scientific Reports, 2017, 7, 16544.	3.3	13
138	Charge polarization in partially lithiated single-walled carbon nanotubes. Physical Chemistry Chemical Physics, 2018, 20, 22592-22599.	2.8	13
139	Redox Processes in Reduced Graphite Oxide Decorated by Carboxyl Functional Groups. Physica Status Solidi (B): Basic Research, 2019, 256, 1800700.	1.5	13
140	Effect of Fluorine Patterns on Electronic Transport in Fluorinated Graphene. Advanced Theory and Simulations, 2020, 3, 1900199.	2.8	13
141	Charge Transfer in Fullerene Films. Fullerenes, Nanotubes, and Carbon Nanostructures, 1998, 6, 433-443.	0.6	12
142	Electron interactions in the closo-carboranes 1,2- and 1,7-C2B10H12. Journal of Molecular Structure, 2000, 520, 33-38.	3.6	12
143	Ab initio calculation of X-ray emission and IR spectra of the hydrofullerene C60H36. Journal of Molecular Structure, 2001, 562, 119-127.	3.6	12
144	Electronic Structure and Fieldâ€Emission Properties of Nitrogenâ€Doped Carbon Nanotubes. Fullerenes Nanotubes and Carbon Nanostructures, 2006, 14, 151-164.	2.1	12

#	Article	IF	Citations
145	Influence of the inhomogeneity of local magnetic parameters on the curves of magnetization in an ensemble of Fe3C ferromagnetic nanoparticles encapsulated in carbon nanotubes. Physics of the Solid State, 2009, 51, 2286-2291.	0.6	12
146	Evaluation of the optimal carrier gas flow rate for the carbon nanotubes growth. Technical Physics Letters, 2013, 39, 258-261.	0.7	12
147	Chlorination of perforated graphite via interaction with thionylchloride. Physica Status Solidi (B): Basic Research, 2014, 251, 2613-2619.	1.5	12
148	X-ray spectroscopy study of lithiated graphite obtained by thermal deposition of lithium. Journal of Structural Chemistry, 2017, 58, 1173-1179.	1.0	12
149	Effect of Co-Mo catalyst preparation and CH₄/H₂ flow on carbon nanotube synthesis. Fullerenes Nanotubes and Carbon Nanostructures, 2020, 28, 707-715.	2.1	12
150	Electronic structure of the complexes of fullerene C60 with polyaromatic molecules. Journal of Molecular Structure, 2003, 648, 183-189.	3.6	11
151	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
152	A comparative study of argon ion irradiated pristine and fluorinated single-wall carbon nanotubes. Journal of Chemical Physics, 2010, 133, 224706.	3.0	11
153	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
154	Layered compounds based on perforated graphene. Journal of Structural Chemistry, 2011, 52, 903-909.	1.0	11
155	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
156	Structural Evolution and Magnetic Properties of Underfluorinated C2F. Journal of Superconductivity and Novel Magnetism, 2012, 25, 79-83.	1.8	11
157	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
158	Memristive model of hysteretic field emission from carbon nanotube arrays. Journal of Nanophotonics, 2016, 10, 012524.	1.0	11
159	Fluorinated Surface of Carbon Nanotube Buckypaper for Uniform Growth of CdS Nanoparticles. Journal of Physical Chemistry C, 2017, 121, 19182-19190.	3.1	11
160	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
161	Iron-filled multi-walled carbon nanotubes for terahertz applications: effects of interfacial polarization, screening and anisotropy. Nanotechnology, 2018, 29, 174003.	2.6	11
162	Electrical Transport in Devices Based on Edgeâ€Fluorinated Graphene. Advanced Electronic Materials, 2018, 4, 1800073.	5.1	11

#	Article	IF	Citations
163	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
164	Chemiresistive Properties of Imprinted Fluorinated Graphene Films. Materials, 2020, 13, 3538.	2.9	11
165	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
166	Fluorine patterning of graphene: effects of fluorine content and temperature. Nanoscale, 2021, 13, 1206-1212.	5.6	11
167	Electronic structure and arrangement of purified HiPco carbon nanotubes. Carbon, 2004, 42, 1095-1098.	10.3	10
168	Surface electronic structure of detonation nanodiamonds after oxidative treatment. Diamond and Related Materials, 2007, 16, 2090-2092.	3.9	10
169	Anisotropic Permittivity of Multi-Walled Carbon Nanotube/Polystyrene Composites. Fullerenes Nanotubes and Carbon Nanostructures, 2012, 20, 523-526.	2.1	10
170	Sensor properties of electron beam irradiated fluorinated graphite. Journal of Nanophotonics, 2015, 10, 012512.	1.0	10
171	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
172	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
173	Pressureâ€Assisted Interface Engineering in MoS₂/Holey Graphene Hybrids for Improved Performance in Liâ€ion Batteries. Energy Technology, 2019, 7, 1900659.	3.8	10
174	Effect of ultrasound pretreatment on bromination of double-walled carbon nanotubes. Synthetic Metals, 2020, 259, 116233.	3.9	10
175	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
176	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
177	Low-frequency (10â€“50 kHz) impedance of polystyrene-onion-like-carbon composites. Technical Physics Letters, 2009, 35, 85-88.	0.7	9
178	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
179	Curvature-Induced Optical Transitions in Graphene. Fullerenes Nanotubes and Carbon Nanostructures, 2012, 20, 558-562.	2.1	9
180	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

#	Article	IF	Citations
181	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
182	Synthesis and modification of carbon nanohorns structure for hyperthermic application. Journal of Structural Chemistry, 2017, 58, 1205-1212.	1.0	9
183	Optimization of Parameters of Graphene Synthesis on Copper Foil at Low Methan Pressure. Journal of Structural Chemistry, 2018, 59, 759-765.	1.0	9
184	Heat-Induced Dip of Optical Limiting Threshold in Carbon Nanotube Aqueous Suspension. Journal of Physical Chemistry C, 2018, 122, 16339-16345.	3.1	9
185	Holey graphene with enhanced near-infrared absorption: Experimental and DFT study. Applied Physics Letters, 2019, 114, .	3.3	9
186	Structure of Diamond Films Grown Using High-Speed Flow of a Thermally Activated CH4-H2 Gas Mixture. Materials, 2020, 13, 219.	2.9	9
187	Creation of metasurface from vertically aligned carbon nanotubes as versatile platform for ultra-light THz components. Nanotechnology, 2020, 31, 255703.	2.6	9
188	Electronic state of nanodiamond/graphite interfaces. Applied Physics A: Materials Science and Processing, 2005, 81, 393-398.	2.3	8
189	Comparison of Structure and Conductivity of Multiwall Carbon Nanotubes Obtained over Ni and Ni/Fe Catalysts. Fullerenes Nanotubes and Carbon Nanostructures, 2005, 12, 93-97.	2.1	8
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	Composites based on polyaniline and aligned carbon nanotubes. Polymer Science - Series B, 2010, 52, 101-108.	0.8	8
192	Synthesis of a hybrid material from CdS nanoparticles and carbon nanotubes. Russian Chemical Bulletin, 2010, 59, 1720-1723.	1.5	8
193	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
194	Electroluminescent properties of CdS/CNT hybrid material. Physica Status Solidi (B): Basic Research, 2010, 247, 2859-2862.	1.5	8
195	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
196	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
197	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
198	Diagnostics of the structure and composition of ultrafine carbon obtained by detonation. Journal of Structural Chemistry, 2014, 55, 986-989.	1.0	8

#	Article	IF	Citations
199	Efficient one-pot combustion synthesis of few-layered graphene. Physica Status Solidi (B): Basic Research, 2015, 252, 2412-2417.	1.5	8
200	Polymer-assisted forge-rolling disaggregation of detonation nanodiamonds and onion-like carbon. International Journal of Nanotechnology, 2015, 12, 182.	0.2	8
201	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
202	Anode materials from MoS₂ and multilayered holey graphene for Li-ion batteries. Fullerenes Nanotubes and Carbon Nanostructures, 2020, 28, 328-334.	2.1	8
203	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
204	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
205	Electro- and Photoluminescence of CdS Nanoparticles Deposited on Carbon Nanotubes. Journal of Nanoelectronics and Optoelectronics, 2013, 8, 36-41.	0.5	8
206	X-ray spectra and electronic structure of the CH3OH molecule. Journal of Structural Chemistry, 1986, 26, 540-545.	1.0	7
207	Electronic structure of monosubstituted benzenes and X-ray emission spectroscopy. Russian Chemical Bulletin, 1997, 46, 1389-1395.	1.5	7
208	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
209	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
210	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
211	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
212	Shapes of laser radiation pulses modified by nonlinear scattering in aqueous suspension of carbon nanotubes. Technical Physics Letters, 2010, 36, 195-198.	0.7	7
213	Electromagnetic properties of phosphate composite materials with boron-containing carbon nanotubes. Physics of the Solid State, 2014, 56, 2537-2542.	0.6	7
214	Functional composition and electrochemical characteristics of oxidized nanosized carbon. Journal of Structural Chemistry, 2017, 58, 1187-1195.	1.0	7
215	Chemical sensors are hybrid-input memristors. Applied Surface Science, 2018, 436, 1018-1021.	6.1	7
216	Fluorination as Effective Method for Tuning the Electromagnetic Response of Graphene. Physica Status Solidi (B): Basic Research, 2018, 255, 1700226.	1.5	7

#	Article	IF	Citations
217	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
218	Localized plasmon resonance in boron-doped multiwalled carbon nanotubes. Physical Review B, 2018, 97, .	3.2	7
219	Percolative Composites with Carbon Nanohorns: Low-Frequency and Ultra-High Frequency Response. Materials, 2019, 12, 1848.	2.9	7
220	Field Emission Characteristics of Periodically Structured Carbon Nanotube Arrays. Journal of Nanoelectronics and Optoelectronics, 2013, 8, 52-57.	0.5	7
221	Electronâ€“electron interaction in multiwall carbon nanotubes. Solid State Communications, 2002, 121, 149-153.	1.9	6
222	Study of the electronic structure and properties of 13C-isotope-based composites. Journal of Surface Investigation, 2007, 1, 645-650.	0.5	6
223	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
224	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
225	Electronic excitation energy transfer between CdS quantum dots and carbon nanotubes. JETP Letters, 2012, 95, 362-365.	1.4	6
226	Electromagnetic response of anisotropic polystyrene composite materials containing oriented multiwall carbon nanotubes. , 2014, , .		6
227	Z-scanning under monochromatic laser pumping: a study of saturatable absorption in a suspension of multiwalled carbon nanotubes. Quantum Electronics, 2016, 46, 719-725.	1.0	6
228	Grain size effect in conductive phosphate / carbon nanotube ceramics. Ceramics International, 2017, 43, 4965-4969.	4.8	6
229	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
230	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
231	Optical Properties of CdS Quantum Dots on Graphene. Journal of Structural Chemistry, 2018, 59, 870-876.	1.0	6
232	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
233	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
234	Enhancement of Volumetric Capacitance of Binder-Free Single-Walled Carbon Nanotube Film via Fluorination. Nanomaterials, 2021, 11, 1135.	4.1	6

#	Article	IF	Citations
235	Maxwell-Garnett Description of Permittivity of Onion-Like Carbonâ€“Polystyrene Composites. Journal of Nanoelectronics and Optoelectronics, 2009, 4, 267-270.	0.5	6
236	Application of Nonlinear Light Scattering in Nanocarbon Suspensions for Adjustment of Laser Pulse Duration. Journal of Nanoelectronics and Optoelectronics, 2012, 7, 102-106.	0.5	6
237	Doping of Carbon Nanotubes with Encapsulated Phosphorus Chains. Inorganic Chemistry, 2022, 61, 9605-9614.	4.0	6
238	X-Ray Spectroscopic Study of the PdxC60Chemical Bonding. Materials Research Society Symposia Proceedings, 1996, 437, 155.	0.1	5
239	Electronic structure of multiwall carbon nanotubes. Synthetic Metals, 2001, 121, 1207-1208.	3.9	5
240	Electronic Structure of 1,5-Cyclooctadiene-copper(I)-hexafluoroacetylacetonate. Journal of Physical Chemistry A, 2001, 105, 8200-8205.	2.5	5
241	Fluorination of CN x Nanotubes. Fullerenes Nanotubes and Carbon Nanostructures, 2005, 12, 99-104.	2.1	5
242	Growth of carbon nanotubes via chemical vapor deposition on Co catalyst nanoparticles dispersed in CaO. Inorganic Materials, 2008, 44, 213-218.	0.8	5
243	Formation of Mo₂S₃ Layers on the Surface of Graphitic Platelets. Key Engineering Materials, 0, 508, 56-60.	0.4	5
244	Extra electronic outer-shell peculiarities accessible under a joint XPS and DFT study. Physical Chemistry Chemical Physics, 2017, 19, 15842-15848.	2.8	5
245	Multiscale characterization of synthetic diamonds obtained by gas-jet deposition. Journal of Physics: Conference Series, 2018, 1105, 012132.	0.4	5
246	The Automation of a CVD-Reactor for the Synthesis of Vertically Oriented Carbon Nanotube Arrays. Instruments and Experimental Techniques, 2018, 61, 482-485.	0.5	5
247	Electronic and structural peculiarities of Br2-embedded C2F: XPS and DFT study. AIP Advances, 2018, 8, 085319.	1.3	5
248	A Laboratory CVD Reactor for the Synthesis of Vertically Oriented Carbon Nanotube Arrays. Instruments and Experimental Techniques, 2018, 61, 604-609.	0.5	5
249	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
250	Hydrogen Plasma Treatment of Aligned Multi-Walled Carbon Nanotube Arrays for Improvement of Field Emission Properties. Materials, 2020, 13, 4420.	2.9	5
251	INFLUENCE OF THE TEMPERATURE OF MOLYBDENUM SUBSTRATES ON THE STRUCTURE OF DIAMOND COATINGS OBTAINED BY CHEMICAL VAPOR DEPOSITION FROM A HIGH-SPEED MICROWAVE PLASMA JET. Journal of Structural Chemistry, 2021, 62, 153-162.	1.0	5
252	Lithium-induced intralayer rearrangement of molybdenum disulfide: Effect of graphene coating. Applied Surface Science, 2022, 598, 153846.	6.1	5

#	Article	IF	Citations
253	Probing the electronic state of onion-like carbon. AIP Conference Proceedings, 2001, , .	0.4	4
254	Electronic structure of diamond/graphite composite nanoparticles. European Physical Journal D, 2005, 34, 157-160.	1.3	4
255	A new method of laser-plasma synthesis of nanomaterials: first results and prospects. , 2007, , .		4
256	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
257	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
258	Magnetic Properties of Carbon Nanotubes with Low Content of Fe. Fullerenes Nanotubes and Carbon Nanostructures, 2010, 18, 569-573.	2.1	4
259	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
260	Spontaneous symmetry breaking during the switching of a buckled graphene membrane. JETP Letters, 2016, 103, 244-247.	1.4	4
261	Mechanism of Formation of Cadmium Sulfide Nanoparticles on Polystyrene Supports from Ammoniaâ€"Thiourea Solutions. Russian Journal of Physical Chemistry A, 2016, 90, 827-832.	0.6	4
262	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
263	X-ray and x-ray electron spectroscopy of new materials. Journal of Structural Chemistry, 2017, 58, 1057-1060.	1.0	4
264	Electromagnetic Properties of Reduced Graphene Oxide Buckypapers Obtained by Different Reduction Procedures. Physica Status Solidi (B): Basic Research, 2018, 255, 1700271.	1.5	4
265	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
266	Continuous synthesis of aligned carbon nanotube arrays on copper substrates using laser-activated gas jet. Applied Physics Letters, 2018, 113, .	3.3	4
267	Temperature Dependence of Electrical Conductivity and Thermoelectric Power of Transparent SWCNT Films Obtained by Aerosol CVD Synthesis. Physica Status Solidi (B): Basic Research, 2018, 255, 1700642.	1.5	4
268	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
269	X-ray photoelectron study of electrical double layer at graphene/phosphoric acid interface. Applied Surface Science, 2020, 515, 146007.	6.1	4
270	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

#	Article	IF	Citations
271	Photolysis of Fluorinated Graphites with Embedded Acetonitrile Using a White-Beam Synchrotron Radiation. Nanomaterials, 2022, 12, 231.	4.1	4
272	Cucurbit[6]uril as a co-catalyst forÂhydrogen production from formic acid. Materials Today Energy, 2022, 26, 100998.	4.7	4
273	Electronic structure of monosubstituted benzenes and X-ray emission spectroscopy. Russian Chemical Bulletin, 1997, 46, 2074-2081.	1.5	3
274	X-ray spectroscopic study of graphite fluoride (C2F) n intercalated with benzene. Russian Chemical Bulletin, 2000, 49, 709-712.	1.5	3
275	Reaction of Platinum Fulleride C60Pt with Dihydroanthracene. Russian Journal of General Chemistry, 2001, 71, 114-118.	0.8	3
276	Fluorination of multiwall nitrogen-doped carbon nanotubes. Russian Journal of Inorganic Chemistry, 2006, 51, 613-618.	1.3	3
277	Electrophysical properties of bromine-intercalated low-dimensional carbon structures. Low Temperature Physics, 2007, 33, 268-271.	0.6	3
278	X-ray spectral study of a material containing BN nanostructures. Journal of Structural Chemistry, 2008, 49, 40-46.	1.0	3
279	High power THz applications on the NovoFEL. , 2009, , .		3
280	The effect of number of carbon atoms in a molecular precursor on the crystallite size in diamond films prepared by plasma-enhanced chemical-vapor deposition. Technical Physics Letters, 2013, 39, 501-504.	0.7	3
281	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
282	Revealing distortion of carbon nanotube walls via angle-resolved X-ray spectroscopy. Current Applied Physics, 2015, 15, 1111-1116.	2.4	3
283	One-step preparation of multiwall carbon nanotube/silicon hybrids for solar energy conversion. Journal of Nanophotonics, 2015, 10, 012507.	1.0	3
284	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
285	Hyperthermal Effect of Infrared Irradiation on Aqueous Dispersion of Carbon Nanotubes and Their Penetration Into Drosophila melanogaster Larvae. Physica Status Solidi (B): Basic Research, 2018, 255, 1700264.	1.5	3
286	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
287	Study of cytotoxicity performance of carbon nanohorns by method of spin probes. Fullerenes Nanotubes and Carbon Nanostructures, 2020, 28, 737-744.	2.1	3
288	Iron induced porosity of the templated carbon for enhancement of electrochemical capacitance. Applied Surface Science, 2021, 543, 148565.	6.1	3

#	Article	IF	Citations
289	Quantum Confinement in MoS₂ Nanoparticles Grown on Graphitic Substrate. Journal of Nanoelectronics and Optoelectronics, 2012, 7, 50-53.	0.5	3
290	Features of Inelastic Interaction of X-Ray Radiation with Aligned Carbon Nanotube Films. Journal of Nanoelectronics and Optoelectronics, 2012, 7, 60-64.	0.5	3
291	Study of Vertically Aligned Multi-Walled Carbon Nanotubes Array for an Absolutely Black Body. Inorganic Materials: Applied Research, 2021, 12, 1164-1167.	0.5	3
292	Band gap opening in the <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi>BiSbTeSe</mml:mi><mml:mn>2</mml:mn></mml:msub> topological surface state induced by ferromagnetic surface reordering. Physical Review Materials, 2021, 5, .	2.4	3
293	X-ray spectra and electronic structure of the POCl3 molecule. Journal of Structural Chemistry, 1985, 25, 545-552.	1.0	2
294	X-Ray spectra and electronic structure of the water molecule in the gaseous, liquid, and solid states. Journal of Structural Chemistry, 1985, 25, 896-899.	1.0	2
295	X-ray spectra and electronic structure of solid ammonia. Journal of Structural Chemistry, 1996, 37, 621-625.	1.0	2
296	Anisotropy of NH4Ap Crystal X-Ray Susceptibility for Bragg Reflection Near Ck Absorption Edge. Materials Research Society Symposia Proceedings, 1998, 524, 161.	0.1	2
297	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
298	Fluorine Effect on the Structure and Electrical Transport of Arc-Produced Carbon Nanotubes. AIP Conference Proceedings, 2002, , .	0.4	2
299	Magnetic properties of Ni x Co1 â^' x nanoparticles in carbon nanotubes. Physics of Metals and Metallography, 2006, 102, S67-S70.	1.0	2
300	Synthesis of CNx nanotubes using catalysts prepared from zinc and nickel bimaleates. Inorganic Materials, 2007, 43, 945-950.	0.8	2
301	Optical limiting in nanodimensional products of laser pyrolysis of a dielectric liquid. Technical Physics Letters, 2007, 33, 248-251.	0.7	2
302	Electronic and Optical Properties of Boron Nitride Nanostructures Obtained by Laser Vaporization Method. Journal of Nanoelectronics and Optoelectronics, 2009, 4, 271-275.	0.5	2
303	Valence band of the chlorinated fullerene C60Cl30 probed by photoemission and X-ray emission spectroscopy. Journal of Molecular Structure, 2009, 921, 264-267.	3.6	2
304	Effect of the catalyst on structural and electrophysical characteristics of the layers of nitrogen-containing carbon nanotubes obtained by gas phase synthesis. Inorganic Materials: Applied Research, 2010, 1, 110-114.	0.5	2
305	Formation of Mo3S4Nanoparticles on the Graphitic Substrate. Fullerenes Nanotubes and Carbon Nanostructures, 2010, 19, 39-43.	2.1	2
306	Graphitic and pyridinic nitrogen in carbon nanotubes: energetic and polarization aspects. Journal of Nanophotonics, 2015, 10, 012510.	1.0	2

#	Article	IF	Citations
307	Photon correlation spectroscopic and spectrophotometric studies of the formation of cadmium sulfide nanoparticles in ammoniaâ€“thiourea solutions. Russian Journal of Physical Chemistry A, 2016, 90, 1034-1038.	0.6	2
308	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
309	Localization of Ï€â€electron density in twisted bilayer graphene. Physica Status Solidi - Rapid Research Letters, 2017, 11, 1600367.	2.4	2
310	Electron Transport and Piezoresistive Effect in Single-Walled Carbon Nanotube Films on Polyethylene Terephthalate Substrates. Journal of Structural Chemistry, 2018, 59, 905-912.	1.0	2
311	A Memristive Model for Graphene Emitters: Hysteresis and Selfâ€Crossing. Physica Status Solidi (B): Basic Research, 2020, 257, 2000020.	1.5	2
312	Electrically activated chemical bath deposition of CdS on carbon nanotube arrays. Synthetic Metals, 2021, 273, 116671.	3.9	2
313	Laser Patterning of Aligned Carbon Nanotubes Arrays: Morphology, Surface Structure, and Interaction with Terahertz Radiation. Materials, 2021, 14, 3275.	2.9	2
314	X-Ray spectra and electronic structure of the F2 molecule. Journal of Structural Chemistry, 1986, 27, 157-159.	1.0	1
315	X-ray spectral and quantum chemical analyses of the electronic structure of poly(monofluorocarbon). Journal of Structural Chemistry, 1995, 36, 572-577.	1.0	1
316	An Observation of the Dimension Effect in the CKÎ±- Spectra of the Ultra Dispersed Diamonds. Materials Research Society Symposia Proceedings, 1996, 437, 149.	0.1	1
317	Quantum chemical and x-ray spectral studies of the structures of superstoichiometric fluorocarbons. Journal of Structural Chemistry, 1996, 37, 906-912.	1.0	1
318	Platinum Fulleride Reduction by Molecular Deuterium or 9, 10-dihydroanthracene. Fullerenes, Nanotubes, and Carbon Nanostructures, 2000, 8, 519-529.	0.6	1
319	Topology and Electronic Structure of Onion-Like Carbon and Graphite/Diamond Nanocomposites. Materials Research Society Symposia Proceedings, 2001, 703, 1.	0.1	1
320	Fluorine Effect on the Binding Energy of Nitrogen Atoms Incorporated into Multiwall CNx Nanotubes. AIP Conference Proceedings, 2004, , .	0.4	1
321	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
322	Inertness of Near-Armchair Carbon Nanotubes Towards Fluorination. AIP Conference Proceedings, 2005, , .	0.4	1
323	Ionâ€“electron emission from CNx nanotube cathode. Physica Status Solidi (B): Basic Research, 2006, 243, 3510-3513.	1.5	1
324	Electronic interactions in two-dimensional polymers of the C60 fullerene. Physics of the Solid State, 2006, 48, 185-191.	0.6	1

#	Article	IF	Citations
325	Heat conductivity of a nanoliquid based on water and chemically modified single-walled carbon nanotubes. Nanotechnologies in Russia, 2013, 8, 64-68.	0.7	1
326	Genotoxic effect of inorganic nanoparticles on the cell. Nanotechnologies in Russia, 2014, 9, 203-212.	0.7	1
327	Electrochemical Properties of the Ultrasonically Activated Thermally Expanded Graphiteâ€“Polyaniline Hybrid Material. Physica Status Solidi (B): Basic Research, 2018, 255, 1700516.	1.5	1
328	An X-ray Spectral Study of the Electronic Structure of Non-Innocent Mono- and Binuclear Platinum Complexes with N-Phenyl-o-Benzosemiquinonediimine. Journal of Structural Chemistry, 2019, 60, 909-918.	1.0	1
329	On the stability of Li intercalated fine-grained graphitic material. Carbon, 2021, 173, 792-799.	10.3	1
330	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
331	The effect of carbon nanoparticles of various nature on the microviscosity of erythrocyte membranes in experimental animals. Himia, Fizika Ta Tehnologia Poverhni, 2019, 10, 312-323.	0.9	1
332	Shielding effects in thin films of carbon nanotubes within microwave range. Lithuanian Journal of Physics, 2016, 56, .	0.4	1
333	F K? x-ray fluorescence spectra of fluorinated aromatic compounds. Bulletin of the Academy of Sciences of the USSR Division of Chemical Science, 1983, 32, 987-990.	0.0	0
334	X-ray spectra and electron structure of the PSC13 molecule. Journal of Structural Chemistry, 1985, 25, 721-728.	1.0	0
335	Electronic structure of BaCu2S2. Journal of Structural Chemistry, 1993, 34, 345-348.	1.0	0
336	X-ray spectra and electronic structure of K x C60. Journal of Structural Chemistry, 1996, 37, 447-451.	1.0	0
337	Investigation of electronic interactions in solid hydrogen fluoride. Journal of Structural Chemistry, 1997, 38, 570-577.	1.0	0
338	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
339	Purification Effect on the Electronic State of Carbon in HiPco Nanotubes. AIP Conference Proceedings, 2003, , .	0.4	0
340	Electron interactions in the (Î·2-C60)Pd[P(Ph2)C5H4]2Fe complex. Russian Chemical Bulletin, 2005, 54, 2730-2734.	1.5	0
341	X-ray Spectroscopy Characterization of Carbon Nanotube Film Texture. AIP Conference Proceedings, 2005, , .	0.4	0
342	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

#	Article	IF	Citations
343	Electronic state of carbon in carbonaceous chondrite meteorites. Physica Status Solidi (B): Basic Research, 2007, 244, 3955-3959.	1.5	0
344	THERMAL CVD SYNTHESIS OF CARBON NANOTUBES IN SWIFT HEAVY ION TRACKS OF SILICON DIOXIDE. , 2009, , .		0
345	Adjustment of the nanosecond laser pulse duration by using a carbon nanotube suspension. Instruments and Experimental Techniques, 2010, 53, 849-852.	0.5	0
346	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
347	5. Characterization methods. , 2018, , 261-408.		0
348	Arrays of vertically aligned multi-walled carbon nanotubes grown on silicon and copper substrates by thermal decomposition of ferrocene-toluene aerosol. Journal of Physics: Conference Series, 2018, 1105, 012141.	0.4	0
349	Scientific Achievements in Studying Graphene and Related Structures. Journal of Structural Chemistry, 2018, 59, 755-758.	1.0	0
350	X-ray photoelectron spectroscopy study of the interaction of lithium with graphene. Physical Sciences Reviews, 2018, 3, .	0.8	0
351	Control Conductance of Single Walled Carbon Nanotubes Films During Synthesis. Journal of Siberian Federal University - Mathematics and Physics, 2018, 11, 222-226.	0.3	0