

Alexander Okotrub

List of Publications by Year in descending order

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351
papers

7,676
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87843

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354
docs citations

354
times ranked

9155
citing authors

#	ARTICLE	IF	CITATIONS
1	Fluorographene: A Two-Dimensional Counterpart of Teflon. <i>Small</i> , 2010, 6, 2877-2884.	5.2	1,146
2	Electrochemical properties of nitrogen-doped carbon nanotube anode in Li-ion batteries. <i>Carbon</i> , 2011, 49, 4013-4023.	5.4	322
3	Charge Transfer in the MoS ₂ /Carbon Nanotube Composite. <i>Journal of Physical Chemistry C</i> , 2011, 115, 21199-21204.	1.5	255
4	Single Isolated Pd ²⁺ Cations Supported on N-Doped Carbon as Active Sites for Hydrogen Production from Formic Acid Decomposition. <i>ACS Catalysis</i> , 2016, 6, 681-691.	5.5	252
5	Effect of nitrogen doping on Raman spectra of multi-walled carbon nanotubes. <i>Physica Status Solidi (B): Basic Research</i> , 2008, 245, 1971-1974.	0.7	169
6	Spectroscopic and electrochemical characterization of the surface layers of chalcopyrite (CuFeS ₂) reacted in acidic solutions. <i>Applied Surface Science</i> , 2004, 225, 395-409.	3.1	127
7	Influence of Ni-Co Catalyst Composition on Nitrogen Content in Carbon Nanotubes. <i>Journal of Physical Chemistry B</i> , 2004, 108, 9048-9053.	1.2	114
8	“Butterfly Effect” in CuO/Graphene Composite Nanosheets: A Small Interfacial Adjustment Triggers Big Changes in Electronic Structure and Li-Ion Storage Performance. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 17236-17244.	4.0	110
9	Copper on carbon materials: stabilization by nitrogen doping. <i>Journal of Materials Chemistry A</i> , 2017, 5, 10574-10583.	5.2	103
10	Double layer supercapacitor properties of onion-like carbon materials. <i>Physica Status Solidi (B): Basic Research</i> , 2008, 245, 2296-2299.	0.7	100
11	Electrochemical performance of arc-produced carbon nanotubes as anode material for lithium-ion batteries. <i>Electrochimica Acta</i> , 2007, 52, 5286-5293.	2.6	79
12	Ni-Mo and Co-Mo alloy nanoparticles for catalytic chemical vapor deposition synthesis of carbon nanotubes. <i>Journal of Alloys and Compounds</i> , 2015, 621, 351-356.	2.8	77
13	Bromination of Double-Walled Carbon Nanotubes. <i>Chemistry of Materials</i> , 2012, 24, 2708-2715.	3.2	76
14	Factors Influencing the Performance of Pd/C Catalysts in the Green Production of Hydrogen from Formic Acid. <i>ChemSusChem</i> , 2017, 10, 720-730.	3.6	76
15	Ab initio study of dielectric response of rippled graphene. <i>Journal of Chemical Physics</i> , 2011, 134, 244707.	1.2	72
16	Fluorination of Arc-Produced Carbon Material Containing Multiwall Nanotubes. <i>Chemistry of Materials</i> , 2002, 14, 1472-1476.	3.2	70
17	Electronic Structure of (n,0) Zigzag Carbon Nanotubes: A Cluster and Crystal Approach. <i>Journal of Physical Chemistry A</i> , 1998, 102, 975-981.	1.1	66
18	Modulating the defects of graphene blocks by ball-milling for ultrahigh gravimetric and volumetric performance and fast sodium storage. <i>Energy Storage Materials</i> , 2020, 30, 287-295.	9.5	66

#	ARTICLE	IF	CITATIONS
19	X-ray Emission Studies of the Valence Band of Nanodiamonds Annealed at Different Temperatures. <i>Journal of Physical Chemistry A</i> , 2001, 105, 9781-9787.	1.1	64
20	Structure and supercapacitor performance of graphene materials obtained from brominated and fluorinated graphites. <i>Carbon</i> , 2014, 78, 137-146.	5.4	62
21	Anisotropy of Chemical Bonding in Semifluorinated Graphite C ₂ F Revealed with Angle-Resolved X-ray Absorption Spectroscopy. <i>ACS Nano</i> , 2013, 7, 65-74.	7.3	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. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 23741-23747.	1.3	61
23	Graphene nanochains and nanoislands in the layers of room-temperature fluorinated graphite. <i>Carbon</i> , 2013, 59, 518-529.	5.4	57
24	Effect of nitrogen doping on the electromagnetic properties of carbon nanotube-based composites. <i>Journal of Applied Physics</i> , 2013, 113, .	1.1	56
25	Field emission luminescence of nanodiamonds deposited on the aligned carbon nanotube array. <i>Scientific Reports</i> , 2015, 5, 9379.	1.6	52
26	Fluorine Patterning in Room-Temperature Fluorinated Graphite Determined by Solid-State NMR and DFT. <i>Journal of Physical Chemistry C</i> , 2013, 117, 7940-7948.	1.5	51
27	Stability of Fluorinated Double-Walled Carbon Nanotubes Produced by Different Fluorination Techniques. <i>Chemistry of Materials</i> , 2010, 22, 4197-4203.	3.2	49
28	Nanometer-Sized MoS ₂ Clusters on Graphene Flakes for Catalytic Formic Acid Decomposition. <i>ACS Catalysis</i> , 2014, 4, 3950-3956.	5.5	49
29	Supercapacitor performance of vertically aligned multiwall carbon nanotubes produced by aerosol-assisted CCVD method. <i>Electrochimica Acta</i> , 2014, 139, 165-172.	2.6	49
30	Fluorinated cage multiwall carbon nanoparticles. <i>Chemical Physics Letters</i> , 2000, 322, 231-236.	1.2	46
31	Anisotropic electromagnetic properties of polymer composites containing oriented multiwall carbon nanotubes in respect to terahertz polarizer applications. <i>Journal of Applied Physics</i> , 2013, 114, .	1.1	42
32	A backside fluorine-functionalized graphene layer for ammonia detection. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 444-450.	1.3	42
33	Reactivity of pyrrhotite (Fe ₉ S ₁₀) surfaces: Spectroscopic studies. <i>Physical Chemistry Chemical Physics</i> , 2000, 2, 4393-4398.	1.3	41
34	Pd Clusters Supported on Amorphous, Low-Porosity Carbon Spheres for Hydrogen Production from Formic Acid. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 8719-8726.	4.0	41
35	Hydrothermal Activation of Porous Nitrogen-Doped Carbon Materials for Electrochemical Capacitors and Sodium-Ion Batteries. <i>Nanomaterials</i> , 2020, 10, 2163.	1.9	41
36	Ni-N4 sites in a single-atom Ni catalyst on N-doped carbon for hydrogen production from formic acid. <i>Journal of Catalysis</i> , 2021, 402, 264-274.	3.1	41

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37	CKI± - 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.	1.3	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.	5.4	39
40	Edge state magnetism in zigzag-interfaced graphene via spin susceptibility measurements. Scientific Reports, 2015, 5, 13382.	1.6	39
41	Single-Walled Carbon Nanotube Reactor for Redox Transformation of Mercury Dichloride. ACS Nano, 2017, 11, 8643-8649.	7.3	38
42	Supercapacitor performance of nitrogen-doped carbon nanotube arrays. Physica Status Solidi (B): Basic Research, 2013, 250, 2586-2591.	0.7	36
43	Synthesis of nitrogen-containing porous carbon using calcium oxide nanoparticles. Physica Status Solidi (B): Basic Research, 2014, 251, 2607-2612.	0.7	36
44	Effect of Fe/Ni catalyst composition on nitrogen doping and field emission properties of carbon nanotubes. Carbon, 2008, 46, 864-869.	5.4	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.	1.5	35
46	Synthesis and structure of films consisting of carbon nanotubes oriented normally to the substrate. Technical Physics, 2007, 52, 1627-1631.	0.2	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.	1.5	34
48	Field emission from products of nanodiamond annealing. Carbon, 2004, 42, 1099-1102.	5.4	33
49	Advantage of graphene fluorination instead of oxygenation for restorable adsorption of gaseous ammonia and nitrogen dioxide. Carbon, 2017, 118, 225-232.	5.4	33
50	Chlorinated holey double-walled carbon nanotubes for relative humidity sensors. Carbon, 2019, 148, 413-420.	5.4	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.	0.4	32
52	Magnetic properties of Fe ₃ C ferromagnetic nanoparticles encapsulated in carbon nanotubes. Physics of the Solid State, 2007, 49, 734-738.	0.2	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 MoS ₂ nanoparticles on the surface of reduced graphite oxide. Physica Status Solidi (B): Basic Research, 2011, 248, 2740-2743.	0.7	32

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55	MWCNT buckypaper/polypyrrole nanocomposites for supercapacitor application. <i>Electrochimica Acta</i> , 2020, 335, 135700.	2.6	32
56	Iron nanoparticles in aligned arrays of pure and nitrogen-doped carbon nanotubes. <i>Carbon</i> , 2012, 50, 2628-2634.	5.4	31
57	One-step chemical vapor deposition synthesis and supercapacitor performance of nitrogen-doped porous carbon-carbon nanotube hybrids. <i>Beilstein Journal of Nanotechnology</i> , 2017, 8, 2669-2679.	1.5	30
58	Comparative Study on the Electronic Structure of Arc-Discharge and Catalytic Carbon Nanotubes. <i>Journal of Physical Chemistry B</i> , 2001, 105, 4853-4859.	1.2	29
59	Gas-phase synthesis of nitrogen-containing carbon nanotubes and their electronic properties. <i>Physics of the Solid State</i> , 2002, 44, 652-655.	0.2	29
60	Fabrication of free-standing aligned multiwalled carbon nanotube array for Li-ion batteries. <i>Journal of Power Sources</i> , 2016, 311, 42-48.	4.0	29
61	Soft X-ray spectroscopy and quantum chemistry characterization of defects in onion-like carbon produced by nanodiamond annealing. <i>Diamond and Related Materials</i> , 2007, 16, 1222-1226.	1.8	28
62	Wrinkled reduced graphene oxide nanosheets for highly sensitive and easy recoverable NH ₃ gas detector. <i>RSC Advances</i> , 2014, 4, 46930-46933.	1.7	28
63	Phosphate ceramics-carbon nanotubes composites: liquid aluminum phosphate vs solid magnesium phosphate binder. <i>Ceramics International</i> , 2015, 41, 12147-12152.	2.3	28
64	Purification of Single-Walled Carbon Nanotubes Using Acid Treatment and Magnetic Separation. <i>Physica Status Solidi (B): Basic Research</i> , 2019, 256, 1800742.	0.7	28
65	Anisotropy of the electromagnetic properties of polymer composites based on multiwall carbon nanotubes in the gigahertz frequency range. <i>JETP Letters</i> , 2011, 93, 607-611.	0.4	27
66	Electron spectroscopy of carbon materials: experiment and theory. <i>Journal of Physics: Conference Series</i> , 2006, 26, 149-152.	0.3	26
67	Catalytic synthesis of carbon nanotubes using Ni- and Co-doped calcium tartrates. <i>Carbon</i> , 2009, 47, 1701-1707.	5.4	26
68	Dielectric properties of polystyrene/onion-like carbon composites in frequency range of 0.5-500kHz. <i>Composites Science and Technology</i> , 2010, 70, 719-724.	3.8	26
69	Correlation between manufacturing processes and anisotropic magnetic and electromagnetic properties of carbon nanotube/polystyrene composites. <i>Composites Part B: Engineering</i> , 2016, 91, 505-512.	5.9	26
70	X-ray Spectroscopic and Quantum-Chemical Characterization of Hydrofullerene C60H36. <i>Journal of Physical Chemistry A</i> , 1999, 103, 716-720.	1.1	25
71	Anisotropic properties of carbonaceous material produced in arc discharge. <i>Applied Physics A: Materials Science and Processing</i> , 2001, 72, 481-486.	1.1	25
72	Orientation ordering of N ₂ molecules in vertically aligned CN x nanotubes. <i>Applied Physics A: Materials Science and Processing</i> , 2009, 94, 437-443.	1.1	25

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73	Growth of CdS nanoparticles on the aligned carbon nanotubes. <i>Physical Chemistry Chemical Physics</i> , 2010, 12, 10871.	1.3	25
74	Charge-induced formation of thin conducting layers on fluorinated graphite surface. <i>Carbon</i> , 2015, 82, 446-458.	5.4	25
75	Nanoscale coupling of MoS ₂ and graphene via rapid thermal decomposition of ammonium tetrathiomolybdate and graphite oxide for boosting capacity of Li-ion batteries. <i>Carbon</i> , 2021, 173, 194-204.	5.4	25
76	Development of graphene layers by reduction of graphite fluoride C ₂ F surface. <i>Physica Status Solidi (B): Basic Research</i> , 2009, 246, 2545-2548.	0.7	24
77	Electronic state of polyaniline deposited on carbon nanotube or ordered mesoporous carbon templates. <i>Physica Status Solidi (B): Basic Research</i> , 2011, 248, 2484-2487.	0.7	24
78	Hydrogen Production from Formic Acid over Au Catalysts Supported on Carbon: Comparison with Au Catalysts Supported on SiO ₂ and Al ₂ O ₃ . <i>Catalysts</i> , 2019, 9, 376.	1.6	24
79	Graphitization of ¹³ C enriched fine-grained graphitic material under high-pressure annealing. <i>Carbon</i> , 2019, 141, 323-330.	5.4	24
80	Thermal Behavior of Fluorinated Double-Walled Carbon Nanotubes. <i>Chemistry of Materials</i> , 2006, 18, 4967-4971.	3.2	23
81	Transmission of terahertz radiation by anisotropic MWCNT/polystyrene composite films. <i>Physica Status Solidi (B): Basic Research</i> , 2011, 248, 2568-2571.	0.7	23
82	NEXAFS spectroscopy study of lithium interaction with nitrogen incorporated in porous graphitic material. <i>Journal of Materials Science</i> , 2019, 54, 11168-11178.	1.7	23
83	Electronic structure and properties of rhombohedrally polymerized C ₆₀ . <i>Journal of Chemical Physics</i> , 2001, 115, 5637-5641.	1.2	22
84	Growth of MoS ₂ layers on the surface of multiwalled carbon nanotubes. <i>Inorganic Materials</i> , 2007, 43, 236-239.	0.2	22
85	Effect of fabrication method on the structure and electromagnetic response of carbon nanotube/polystyrene composites in low-frequency and Ka bands. <i>Composites Science and Technology</i> , 2014, 102, 59-64.	3.8	22
86	Encapsulation of molecular nitrogen in multiwall CN _x nanotubes. <i>Physica Status Solidi (B): Basic Research</i> , 2007, 244, 4078-4081.	0.7	21
87	Leaky graphene oxide with high quantum yield and dual-wavelength photoluminescence. <i>Carbon</i> , 2016, 108, 461-470.	5.4	21
88	Electronic Structure of Nitrogen- and Phosphorus-Doped Graphenes Grown by Chemical Vapor Deposition Method. <i>Materials</i> , 2020, 13, 1173.	1.3	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. <i>Physics of the Solid State</i> , 2002, 44, 663-665.	0.2	20
90	Magnetic ordering in C ₆₀ polymers with partially broken intermolecular bonds. <i>Physical Review B</i> , 2004, 70, .	1.1	20

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91	Effect of oxidation and heat treatment on the morphology and electronic structure of carbon-encapsulated iron carbide nanoparticles. <i>Materials Chemistry and Physics</i> , 2012, 135, 235-240.	2.0	20
92	Effects of the Carbon Support Doping with Nitrogen for the Hydrogen Production from Formic Acid over Ni Catalysts. <i>Energies</i> , 2019, 12, 4111.	1.6	20
93	Electronic state of nitrogen incorporated into CN _x nanotubes. <i>European Physical Journal D</i> , 2005, 34, 271-274.	0.6	19
94	Orientational effect of the texture of a carbon-nanotube film on C _K α radiation intensity. <i>JETP Letters</i> , 2005, 81, 34-38.	0.4	19
95	Nitrogen inserting in fluorinated graphene via annealing of acetonitrile intercalated graphite fluoride. <i>Physica Status Solidi (B): Basic Research</i> , 2014, 251, 2530-2535.	0.7	19
96	<i>In situ</i> XPS Observation of Selective NO _x Adsorption on the Oxygenated Graphene Films. <i>Physica Status Solidi (B): Basic Research</i> , 2018, 255, 1700267.	0.7	19
97	Single Au Atoms on the Surface of N-Free and N-Doped Carbon: Interaction with Formic Acid and Methanol Molecules. <i>Topics in Catalysis</i> , 2019, 62, 508-517.	1.3	19
98	Preferred attachment of fluorine near oxygen-containing groups on the surface of double-walled carbon nanotubes. <i>Applied Surface Science</i> , 2020, 504, 144357.	3.1	19
99	Engineering selenium-doped nitrogen-rich carbon nanosheets as anode materials for enhanced Na-Ion storage. <i>Journal of Power Sources</i> , 2021, 493, 229700.	4.0	19
100	X-ray spectroscopic and quantum-chemical study of carbon tubes produced in arc-discharge. <i>Chemical Physics Letters</i> , 1998, 289, 341-349.	1.2	18
101	Electronic Structure of the Fluorinated Fullerene C ₆₀ F ₄₈ . <i>Journal of Physical Chemistry A</i> , 1999, 103, 9921-9924.	1.1	18
102	Many-body effects in optical response of graphene-based structures. <i>International Journal of Quantum Chemistry</i> , 2016, 116, 270-281.	1.0	18
103	Supercapacitor performance of binder-free buckypapers from multiwall carbon nanotubes synthesized at different temperatures. <i>Physica Status Solidi (B): Basic Research</i> , 2016, 253, 2406-2412.	0.7	18
104	How effectively do carbon nanotube inclusions contribute to the electromagnetic performance of a composite material? Estimation criteria from microwave and terahertz measurements. <i>Carbon</i> , 2018, 129, 688-694.	5.4	18
105	High-Pressure High-Temperature Synthesis of MoS ₂ /Holey Graphene Hybrids and Their Performance in Li-Ion Batteries. <i>Physica Status Solidi (B): Basic Research</i> , 2018, 255, 1700262.	0.7	18
106	Structure and supercapacitor properties of few-layer low-fluorinated graphene materials. <i>Journal of Materials Science</i> , 2018, 53, 13053-13066.	1.7	18
107	Effect of boron and nitrogen additives on structure and transport properties of arc-produced carbon. <i>Carbon</i> , 2019, 143, 660-668.	5.4	18
108	NATURE OF CHEMICAL BONDING IN THE FLUORINATED CARBON COMPOUNDS. <i>Reviews in Inorganic Chemistry</i> , 1999, 19, 79-116.	1.8	17

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109	Stability, electronic structure and reactivity of the polymerized fullerite forms. <i>Journal of Physics and Chemistry of Solids</i> , 2000, 61, 1901-1911.	1.9	17
110	Magnetic anisotropy in the films of oriented carbon nanotubes filled with iron nanoparticles. <i>Technical Physics Letters</i> , 2005, 31, 454-456.	0.2	17
111	Electronic structure of C60F36 studied by quantum-chemical modeling of experimental photoemission and x-ray absorption spectra. <i>Journal of Chemical Physics</i> , 2009, 130, 014704.	1.2	17
112	Functional composition and super-capacitor properties of graphite oxide reduced with hot sulfuric acid. <i>Physica Status Solidi (B): Basic Research</i> , 2013, 250, 2747-2752.	0.7	17
113	Insight into effect of water additive on carbon remaining in metal alloys after high-pressure high-temperature diamond synthesis. <i>Diamond and Related Materials</i> , 2016, 70, 46-51.	1.8	17
114	Effect of oxidative treatment on the electrochemical properties of aligned multi-walled carbon nanotubes. <i>Russian Journal of Electrochemistry</i> , 2016, 52, 441-448.	0.3	17
115	Assessing carbon nanotube arrangement in polystyrene matrix by magnetic susceptibility measurements. <i>Carbon</i> , 2016, 96, 1077-1083.	5.4	17
116	Effect of in-plane size of MoS2 nanoparticles grown over multilayer graphene on the electrochemical performance of anodes in Li-ion batteries. <i>Electrochimica Acta</i> , 2018, 283, 45-53.	2.6	17
117	Role of interface interactions in the sensitivity of sulfur-modified single-walled carbon nanotubes for nitrogen dioxide gas sensing. <i>Carbon</i> , 2022, 186, 539-549.	5.4	17
118	Perforation of graphite in boiling mineral acid. <i>Physica Status Solidi (B): Basic Research</i> , 2012, 249, 2620-2624.	0.7	16
119	Modifications to the electronic structure of carbon nanotubes with symmetric and random vacancies. <i>International Journal of Quantum Chemistry</i> , 2004, 96, 239-246.	1.0	15
120	Optical absorption of boron nitride nanomaterials. <i>Physica Status Solidi (B): Basic Research</i> , 2008, 245, 2107-2110.	0.7	15
121	Modulation of electronic density in waved graphite layers. <i>Synthetic Metals</i> , 2010, 160, 1848-1855.	2.1	15
122	Energy shift of collective electron excitations in highly corrugated graphitic nanostructures: Experimental and theoretical investigation. <i>Applied Physics Letters</i> , 2014, 104, .	1.5	15
123	Phosphorus incorporation into graphitic material via hot pressing of graphite oxide and triphenylphosphine. <i>Synthetic Metals</i> , 2019, 248, 53-58.	2.1	15
124	Light-Induced Sulfur Transport inside Single-Walled Carbon Nanotubes. <i>Nanomaterials</i> , 2020, 10, 818.	1.9	15
125	Determining misorientation of graphite grains from the angular dependence of X-ray emission spectra. <i>Journal of Experimental and Theoretical Physics</i> , 2006, 103, 604-610.	0.2	14
126	Substitutional sites of nitrogen atoms in carbon nanotubes and their influence on field emission characteristics. <i>International Journal of Quantum Chemistry</i> , 2011, 111, 2696-2704.	1.0	14

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127	Nitrogen species in few-layer graphene produced by thermal exfoliation of fluorinated graphite intercalation compounds. <i>Physica Status Solidi (B): Basic Research</i> , 2015, 252, 2444-2450.	0.7	14
128	RNA-modified carbon nanotube arrays recognizing RNA via electrochemical capacitance response. <i>Materials and Design</i> , 2016, 100, 67-72.	3.3	14
129	Thermally exfoliated fluorinated graphite for NO ₂ gas sensing. <i>Physica Status Solidi (B): Basic Research</i> , 2016, 253, 2492-2498.	0.7	14
130	Bromine polycondensation in pristine and fluorinated graphitic carbons. <i>Nanoscale</i> , 2019, 11, 15298-15306.	2.8	14
131	Simulated Raman spectra of bulk and low-dimensional phosphorus allotropes. <i>Physical Chemistry Chemical Physics</i> , 2021, 23, 16611-16622.	1.3	14
132	One-Dimensional Red-Phosphorus Chains Encapsulated within Single-Walled Carbon Nanotubes. <i>ACS Nano</i> , 2022, 16, 6002-6012.	7.3	14
133	Investigation of the Electronic Structure of C ₆₀ F ₂₄ . <i>Journal of Physical Chemistry A</i> , 1997, 101, 10018-10028.	1.1	13
134	Transport and magnetic properties of multiwall carbon nanotubes before and after bromination. <i>Physics of the Solid State</i> , 2002, 44, 659-662.	0.2	13
135	Interaction of NH ₃ with the reduced surface of graphite fluoride C ₂ F. <i>Physica Status Solidi (B): Basic Research</i> , 2010, 247, 3039-3042.	0.7	13
136	Multiscale characterization of ¹³ C-enriched fine-grained graphitic materials for chemical and electrochemical applications. <i>Carbon</i> , 2017, 124, 161-169.	5.4	13
137	Tabby graphene: Dimensional magnetic crossover in fluorinated graphite. <i>Scientific Reports</i> , 2017, 7, 16544.	1.6	13
138	Charge polarization in partially lithiated single-walled carbon nanotubes. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 22592-22599.	1.3	13
139	Redox Processes in Reduced Graphite Oxide Decorated by Carboxyl Functional Groups. <i>Physica Status Solidi (B): Basic Research</i> , 2019, 256, 1800700.	0.7	13
140	Effect of Fluorine Patterns on Electronic Transport in Fluorinated Graphene. <i>Advanced Theory and Simulations</i> , 2020, 3, 1900199.	1.3	13
141	Charge Transfer in Fullerene Films. <i>Fullerenes, Nanotubes, and Carbon Nanostructures</i> , 1998, 6, 433-443.	0.6	12
142	Electron interactions in the closo-carboranes 1,2- and 1,7-C ₂ B ₁₀ H ₁₂ . <i>Journal of Molecular Structure</i> , 2000, 520, 33-38.	1.8	12
143	Ab initio calculation of X-ray emission and IR spectra of the hydrofullerene C ₆₀ H ₃₆ . <i>Journal of Molecular Structure</i> , 2001, 562, 119-127.	1.8	12
144	Electronic Structure and Field-Emission Properties of Nitrogen-Doped Carbon Nanotubes. <i>Fullerenes Nanotubes and Carbon Nanostructures</i> , 2006, 14, 151-164.	1.0	12

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145	Influence of the inhomogeneity of local magnetic parameters on the curves of magnetization in an ensemble of Fe ₃ C ferromagnetic nanoparticles encapsulated in carbon nanotubes. <i>Physics of the Solid State</i> , 2009, 51, 2286-2291.	0.2	12
146	Evaluation of the optimal carrier gas flow rate for the carbon nanotubes growth. <i>Technical Physics Letters</i> , 2013, 39, 258-261.	0.2	12
147	Chlorination of perforated graphite via interaction with thionylchloride. <i>Physica Status Solidi (B): Basic Research</i> , 2014, 251, 2613-2619.	0.7	12
148	X-ray spectroscopy study of lithiated graphite obtained by thermal deposition of lithium. <i>Journal of Structural Chemistry</i> , 2017, 58, 1173-1179.	0.3	12
149	Effect of Co-Mo catalyst preparation and CH ₄ /H ₂ flow on carbon nanotube synthesis. <i>Fullerenes Nanotubes and Carbon Nanostructures</i> , 2020, 28, 707-715.	1.0	12
150	Electronic structure of the complexes of fullerene C ₆₀ with polyaromatic molecules. <i>Journal of Molecular Structure</i> , 2003, 648, 183-189.	1.8	11
151	Effect of purification on the electron structure and field emission characteristics of a carbonaceous material containing single-wall carbon nanotubes. <i>Journal of Experimental and Theoretical Physics</i> , 2004, 99, 1244-1252.	0.2	11
152	A comparative study of argon ion irradiated pristine and fluorinated single-wall carbon nanotubes. <i>Journal of Chemical Physics</i> , 2010, 133, 224706.	1.2	11
153	XANES Investigation of Pristine and Fluorinated Single-Walled Carbon Nanotubes Before and After Annealing. <i>Fullerenes Nanotubes and Carbon Nanostructures</i> , 2010, 18, 595-599.	1.0	11
154	Layered compounds based on perforated graphene. <i>Journal of Structural Chemistry</i> , 2011, 52, 903-909.	0.3	11
155	Supercapacitor Performance of Aligned Carbon Nanotube/Polyaniline Composite Depending on the Duration of Aniline Polycondensation. <i>Fullerenes Nanotubes and Carbon Nanostructures</i> , 2012, 20, 519-522.	1.0	11
156	Structural Evolution and Magnetic Properties of Underfluorinated C ₂ F. <i>Journal of Superconductivity and Novel Magnetism</i> , 2012, 25, 79-83.	0.8	11
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