

# Lyubov Bulusheva

## List of Publications by Citations

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242 papers	5,474 citations	33 h-index	64 g-index
250 ext. papers	6,223 ext. citations	3.9 avg, IF	5.52 L-index

#	Paper	IF	Citations
242	Fluorographene: a two-dimensional counterpart of Teflon. <i>Small</i> , <b>2010</b> , 6, 2877-84	11	979
241	Electrochemical properties of nitrogen-doped carbon nanotube anode in Li-ion batteries. <i>Carbon</i> , <b>2011</b> , 49, 4013-4023	10.4	282
240	Charge Transfer in the MoS <sub>2</sub> /Carbon Nanotube Composite. <i>Journal of Physical Chemistry C</i> , <b>2011</b> , 115, 21199-21204	3.8	222
239	Single Atoms of Pt-Group Metals Stabilized by N-Doped Carbon Nanofibers for Efficient Hydrogen Production from Formic Acid. <i>ACS Catalysis</i> , <b>2016</b> , 6, 3442-3451	13.1	205
238	Single Isolated Pd <sup>2+</sup> Cations Supported on N-Doped Carbon as Active Sites for Hydrogen Production from Formic Acid Decomposition. <i>ACS Catalysis</i> , <b>2016</b> , 6, 681-691	13.1	183
237	Effect of nitrogen doping on Raman spectra of multi-walled carbon nanotubes. <i>Physica Status Solidi (B): Basic Research</i> , <b>2008</b> , 245, 1971-1974	1.3	150
236	Influence of Ni <sub>10</sub> Catalyst Composition on Nitrogen Content in Carbon Nanotubes. <i>Journal of Physical Chemistry B</i> , <b>2004</b> , 108, 9048-9053	3.4	106
235	Double layer supercapacitor properties of onion-like carbon materials. <i>Physica Status Solidi (B): Basic Research</i> , <b>2008</b> , 245, 2296-2299	1.3	91
234	Electrochemical performance of arc-produced carbon nanotubes as anode material for lithium-ion batteries. <i>Electrochimica Acta</i> , <b>2007</b> , 52, 5286-5293	6.7	71
233	Copper on carbon materials: stabilization by nitrogen doping. <i>Journal of Materials Chemistry A</i> , <b>2017</b> , 5, 10574-10583	13	62
232	Factors Influencing the Performance of Pd/C Catalysts in the Green Production of Hydrogen from Formic Acid. <i>ChemSusChem</i> , <b>2017</b> , 10, 720-730	8.3	62
231	Ab initio study of dielectric response of rippled graphene. <i>Journal of Chemical Physics</i> , <b>2011</b> , 134, 244703	3.9	62
230	Fluorination of Arc-Produced Carbon Material Containing Multiwall Nanotubes. <i>Chemistry of Materials</i> , <b>2002</b> , 14, 1472-1476	9.6	61
229	Ni <sub>3</sub> Mo and Co <sub>3</sub> Mo alloy nanoparticles for catalytic chemical vapor deposition synthesis of carbon nanotubes. <i>Journal of Alloys and Compounds</i> , <b>2015</b> , 621, 351-356	5.7	58
228	Bromination of Double-Walled Carbon Nanotubes. <i>Chemistry of Materials</i> , <b>2012</b> , 24, 2708-2715	9.6	58
227	Structure and supercapacitor performance of graphene materials obtained from brominated and fluorinated graphites. <i>Carbon</i> , <b>2014</b> , 78, 137-146	10.4	57
226	Anisotropy of chemical bonding in semifluorinated graphite C <sub>2</sub> F revealed with angle-resolved X-ray absorption spectroscopy. <i>ACS Nano</i> , <b>2013</b> , 7, 65-74	16.7	55

225	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> , <b>2015</b> , 17, 23741-7	3.6	51
224	Effect of nitrogen doping on the electromagnetic properties of carbon nanotube-based composites. <i>Journal of Applied Physics</i> , <b>2013</b> , 113, 144315	2.5	51
223	Field emission luminescence of nanodiamonds deposited on the aligned carbon nanotube array. <i>Scientific Reports</i> , <b>2015</b> , 5, 9379	4.9	49
222	Graphene nanochains and nanoislands in the layers of room-temperature fluorinated graphite. <i>Carbon</i> , <b>2013</b> , 59, 518-529	10.4	46
221	Effect of substrate temperature on the structure of amorphous oxygenated hydrocarbon films grown with a pulsed supersonic methane plasma flow. <i>Applied Surface Science</i> , <b>2016</b> , 385, 464-471	6.7	45
220	Fluorine Patterning in Room-Temperature Fluorinated Graphite Determined by Solid-State NMR and DFT. <i>Journal of Physical Chemistry C</i> , <b>2013</b> , 117, 7940-7948	3.8	44
219	Stability of Fluorinated Double-Walled Carbon Nanotubes Produced by Different Fluorination Techniques. <i>Chemistry of Materials</i> , <b>2010</b> , 22, 4197-4203	9.6	44
218	Fluorinated cage multiwall carbon nanoparticles. <i>Chemical Physics Letters</i> , <b>2000</b> , 322, 231-236	2.5	40
217	Nanometer-Sized MoS <sub>2</sub> Clusters on Graphene Flakes for Catalytic Formic Acid Decomposition. <i>ACS Catalysis</i> , <b>2014</b> , 4, 3950-3956	13.1	39
216	Supercapacitor performance of vertically aligned multiwall carbon nanotubes produced by aerosol-assisted CCVD method. <i>Electrochimica Acta</i> , <b>2014</b> , 139, 165-172	6.7	37
215	A backside fluorine-functionalized graphene layer for ammonia detection. <i>Physical Chemistry Chemical Physics</i> , <b>2015</b> , 17, 444-50	3.6	35
214	Modulating the defects of graphene blocks by ball-milling for ultrahigh gravimetric and volumetric performance and fast sodium storage. <i>Energy Storage Materials</i> , <b>2020</b> , 30, 287-295	19.4	35
213	Anisotropic electromagnetic properties of polymer composites containing oriented multiwall carbon nanotubes in respect to terahertz polarizer applications. <i>Journal of Applied Physics</i> , <b>2013</b> , 114, 114304	2.5	35
212	Effect of Fe/Ni catalyst composition on nitrogen doping and field emission properties of carbon nanotubes. <i>Carbon</i> , <b>2008</b> , 46, 864-869	10.4	35
211	Synthesis and structure of films consisting of carbon nanotubes oriented normally to the substrate. <i>Technical Physics</i> , <b>2007</b> , 52, 1627-1631	0.5	34
210	Creation of nanosized holes in graphene planes for improvement of rate capability of lithium-ion batteries. <i>Nanotechnology</i> , <b>2018</b> , 29, 134001	3.4	33
209	Edge state magnetism in zigzag-interfaced graphene via spin susceptibility measurements. <i>Scientific Reports</i> , <b>2015</b> , 5, 13382	4.9	33
208	Comparative study of fluorinated single- and few-wall carbon nanotubes by X-ray photoelectron and X-ray absorption spectroscopy. <i>Carbon</i> , <b>2009</b> , 47, 1629-1636	10.4	33

207	Pd clusters supported on amorphous, low-porosity carbon spheres for hydrogen production from formic acid. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2015</b> , 7, 8719-26	9.5	32
206	Field emission from products of nanodiamond annealing. <i>Carbon</i> , <b>2004</b> , 42, 1099-1102	10.4	31
205	Formation of MoS <sub>2</sub> nanoparticles on the surface of reduced graphite oxide. <i>Physica Status Solidi (B): Basic Research</i> , <b>2011</b> , 248, 2740-2743	1.3	30
204	Supercapacitor performance of nitrogen-doped carbon nanotube arrays. <i>Physica Status Solidi (B): Basic Research</i> , <b>2013</b> , 250, 2586-2591	1.3	29
203	Arrays of carbon nanotubes aligned perpendicular to the substrate surface: Anisotropy of structure and properties. <i>Nanotechnologies in Russia</i> , <b>2008</b> , 3, 191-200	0.6	28
202	Gas-phase synthesis of nitrogen-containing carbon nanotubes and their electronic properties. <i>Physics of the Solid State</i> , <b>2002</b> , 44, 652-655	0.8	28
201	Comparative Study on the Electronic Structure of Arc-Discharge and Catalytic Carbon Nanotubes. <i>Journal of Physical Chemistry B</i> , <b>2001</b> , 105, 4853-4859	3.4	28
200	Synthesis of nitrogen-containing porous carbon using calcium oxide nanoparticles. <i>Physica Status Solidi (B): Basic Research</i> , <b>2014</b> , 251, 2607-2612	1.3	27
199	Advantage of graphene fluorination instead of oxygenation for restorable adsorption of gaseous ammonia and nitrogen dioxide. <i>Carbon</i> , <b>2017</b> , 118, 225-232	10.4	26
198	In Situ X-ray Photoelectron Spectroscopy Study of Lithium Interaction with Graphene and Nitrogen-Doped Graphene Films Produced by Chemical Vapor Deposition. <i>Journal of Physical Chemistry C</i> , <b>2017</b> , 121, 5108-5114	3.8	25
197	Fabrication of free-standing aligned multiwalled carbon nanotube array for Li-ion batteries. <i>Journal of Power Sources</i> , <b>2016</b> , 311, 42-48	8.9	25
196	Growth of CdS nanoparticles on the aligned carbon nanotubes. <i>Physical Chemistry Chemical Physics</i> , <b>2010</b> , 12, 10871-5	3.6	25
195	Catalytic synthesis of carbon nanotubes using Ni- and Co-doped calcium tartrates. <i>Carbon</i> , <b>2009</b> , 47, 1701-1707	14.7	25
194	Single-Walled Carbon Nanotube Reactor for Redox Transformation of Mercury Dichloride. <i>ACS Nano</i> , <b>2017</b> , 11, 8643-8649	16.7	24
193	Orientation ordering of N <sub>2</sub> molecules in vertically aligned CN x nanotubes. <i>Applied Physics A: Materials Science and Processing</i> , <b>2009</b> , 94, 437-443	2.6	24
192	Dielectric properties of polystyrene/onion-like carbon composites in frequency range of 0.5-500kHz. <i>Composites Science and Technology</i> , <b>2010</b> , 70, 719-724	8.6	24
191	Effect of the fluorination technique on the surface-fluorination patterning of double-walled carbon nanotubes. <i>Beilstein Journal of Nanotechnology</i> , <b>2017</b> , 8, 1688-1698	3	23
190	Iron nanoparticles in aligned arrays of pure and nitrogen-doped carbon nanotubes. <i>Carbon</i> , <b>2012</b> , 50, 2628-2634	10.4	23

189	Soft X-ray spectroscopy and quantum chemistry characterization of defects in onion-like carbon produced by nanodiamond annealing. <i>Diamond and Related Materials</i> , <b>2007</b> , 16, 1222-1226	3.5	23
188	Chlorinated holey double-walled carbon nanotubes for relative humidity sensors. <i>Carbon</i> , <b>2019</b> , 148, 413-420	10.4	22
187	Development of graphene layers by reduction of graphite fluoride C <sub>2</sub> F surface. <i>Physica Status Solidi (B): Basic Research</i> , <b>2009</b> , 246, 2545-2548	1.3	22
186	Charge-induced formation of thin conducting layers on fluorinated graphite surface. <i>Carbon</i> , <b>2015</b> , 82, 446-458	10.4	21
185	One-step chemical vapor deposition synthesis and supercapacitor performance of nitrogen-doped porous carbon-carbon nanotube hybrids. <i>Beilstein Journal of Nanotechnology</i> , <b>2017</b> , 8, 2669-2679	3	21
184	X-ray Spectroscopic and Quantum-Chemical Characterization of Hydrofullerene C <sub>60</sub> H <sub>36</sub> . <i>Journal of Physical Chemistry A</i> , <b>1999</b> , 103, 716-720	2.8	21
183	Encapsulation of molecular nitrogen in multiwall CN <sub>x</sub> nanotubes. <i>Physica Status Solidi (B): Basic Research</i> , <b>2007</b> , 244, 4078-4081	1.3	20
182	Growth of MoS <sub>2</sub> layers on the surface of multiwalled carbon nanotubes. <i>Inorganic Materials</i> , <b>2007</b> , 43, 236-239	0.9	20
181	Anisotropic properties of carbonaceous material produced in arc discharge. <i>Applied Physics A: Materials Science and Processing</i> , <b>2001</b> , 72, 481-486	2.6	20
180	Correlation between manufacturing processes and anisotropic magnetic and electromagnetic properties of carbon nanotube/polystyrene composites. <i>Composites Part B: Engineering</i> , <b>2016</b> , 91, 505-512	10	19
179	Transmission of terahertz radiation by anisotropic MWCNT/polystyrene composite films. <i>Physica Status Solidi (B): Basic Research</i> , <b>2011</b> , 248, 2568-2571	1.3	19
178	Effect of oxidation and heat treatment on the morphology and electronic structure of carbon-encapsulated iron carbide nanoparticles. <i>Materials Chemistry and Physics</i> , <b>2012</b> , 135, 235-240	4.4	18
177	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> , <b>2002</b> , 44, 663-665	0.8	18
176	Electronic state of nitrogen incorporated into CN <sub>x</sub> nanotubes. <i>European Physical Journal D</i> , <b>2005</b> , 34, 271-274	1.3	18
175	Orientational effect of the texture of a carbon-nanotube film on C <sub>K<math>\alpha</math></sub> radiation intensity. <i>JETP Letters</i> , <b>2005</b> , 81, 34-38	1.2	18
174	Leaky graphene oxide with high quantum yield and dual-wavelength photoluminescence. <i>Carbon</i> , <b>2016</b> , 108, 461-470	10.4	17
173	Electronic state of polyaniline deposited on carbon nanotube or ordered mesoporous carbon templates. <i>Physica Status Solidi (B): Basic Research</i> , <b>2011</b> , 248, 2484-2487	1.3	17
172	Electronic Structure of the Fluorinated Fullerene C <sub>60</sub> F <sub>48</sub> . <i>Journal of Physical Chemistry A</i> , <b>1999</b> , 103, 9921-9924	2.8	17

171	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> , <b>2014</b> , 102, 59-64	8.6	16
170	Many-body effects in optical response of graphene-based structures. <i>International Journal of Quantum Chemistry</i> , <b>2016</b> , 116, 270-281	2.1	16
169	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> , <b>2019</b> , 62, 508-517	2.3	15
168	High-Pressure High-Temperature Synthesis of MoS <sub>2</sub> /Holey Graphene Hybrids and Their Performance in Li-Ion Batteries. <i>Physica Status Solidi (B): Basic Research</i> , <b>2018</b> , 255, 1700262	1.3	15
167	Perforation of graphite in boiling mineral acid. <i>Physica Status Solidi (B): Basic Research</i> , <b>2012</b> , 249, 2620-2634	3.4	15
166	Functional composition and super-capacitor properties of graphite oxide reduced with hot sulfuric acid. <i>Physica Status Solidi (B): Basic Research</i> , <b>2013</b> , 250, 2747-2752	1.3	15
165	Electronic structure of C <sub>60</sub> F <sub>36</sub> studied by quantum-chemical modeling of experimental photoemission and x-ray absorption spectra. <i>Journal of Chemical Physics</i> , <b>2009</b> , 130, 014704	3.9	15
164	NATURE OF CHEMICAL BONDING IN THE FLUORINATED CARBON COMPOUNDS. <i>Reviews in Inorganic Chemistry</i> , <b>1999</b> , 19, 79-116	2.4	15
163	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> , <b>2016</b> , 70, 46-51	3.5	15
162	Graphitization of <sup>13</sup> C enriched fine-grained graphitic material under high-pressure annealing. <i>Carbon</i> , <b>2019</b> , 141, 323-330	10.4	15
161	Effect of oxidative treatment on the electrochemical properties of aligned multi-walled carbon nanotubes. <i>Russian Journal of Electrochemistry</i> , <b>2016</b> , 52, 441-448	1.2	14
160	Nitrogen inserting in fluorinated graphene via annealing of acetonitrile intercalated graphite fluoride. <i>Physica Status Solidi (B): Basic Research</i> , <b>2014</b> , 251, 2530-2535	1.3	14
159	NEXAFS spectroscopy study of lithium interaction with nitrogen incorporated in porous graphitic material. <i>Journal of Materials Science</i> , <b>2019</b> , 54, 11168-11178	4.3	13
158	Supercapacitor performance of binder-free buckypapers from multiwall carbon nanotubes synthesized at different temperatures. <i>Physica Status Solidi (B): Basic Research</i> , <b>2016</b> , 253, 2406-2412	1.3	13
157	Thermally exfoliated fluorinated graphite for NO <sub>2</sub> gas sensing. <i>Physica Status Solidi (B): Basic Research</i> , <b>2016</b> , 253, 2492-2498	1.3	13
156	Effect of in-plane size of MoS <sub>2</sub> nanoparticles grown over multilayer graphene on the electrochemical performance of anodes in Li-ion batteries. <i>Electrochimica Acta</i> , <b>2018</b> , 283, 45-53	6.7	13
155	Structure and supercapacitor properties of few-layer low-fluorinated graphene materials. <i>Journal of Materials Science</i> , <b>2018</b> , 53, 13053-13066	4.3	13
154	Multiscale characterization of <sup>13</sup> C-enriched fine-grained graphitic materials for chemical and electrochemical applications. <i>Carbon</i> , <b>2017</b> , 124, 161-169	10.4	13

153	Substitutional sites of nitrogen atoms in carbon nanotubes and their influence on field-emission characteristics. <i>International Journal of Quantum Chemistry</i> , <b>2011</b> , 111, 2696-2704	2.1	13
152	Modulation of electronic density in waved graphite layers. <i>Synthetic Metals</i> , <b>2010</b> , 160, 1848-1855	3.6	13
151	Interaction of NH <sub>3</sub> with the reduced surface of graphite fluoride C <sub>2</sub> F. <i>Physica Status Solidi (B): Basic Research</i> , <b>2010</b> , 247, 3039-3042	1.3	13
150	Optical absorption of boron nitride nanomaterials. <i>Physica Status Solidi (B): Basic Research</i> , <b>2008</b> , 245, 2107-2110	1.3	13
149	Determining misorientation of graphite grains from the angular dependence of X-ray emission spectra. <i>Journal of Experimental and Theoretical Physics</i> , <b>2006</b> , 103, 604-610	1	13
148	Hydrogen Production from Formic Acid over Au Catalysts Supported on Carbon: Comparison with Au Catalysts Supported on SiO <sub>2</sub> and Al <sub>2</sub> O <sub>3</sub> . <i>Catalysts</i> , <b>2019</b> , 9, 376	4	12
147	Assessing carbon nanotube arrangement in polystyrene matrix by magnetic susceptibility measurements. <i>Carbon</i> , <b>2016</b> , 96, 1077-1083	10.4	12
146	Energy shift of collective electron excitations in highly corrugated graphitic nanostructures: Experimental and theoretical investigation. <i>Applied Physics Letters</i> , <b>2014</b> , 104, 161905	3.4	12
145	Electronic Structure and Field-Emission Properties of Nitrogen-Doped Carbon Nanotubes. <i>Fullerenes Nanotubes and Carbon Nanostructures</i> , <b>2006</b> , 14, 151-164	1.8	12
144	Effects of the Carbon Support Doping with Nitrogen for the Hydrogen Production from Formic Acid over Ni Catalysts. <i>Energies</i> , <b>2019</b> , 12, 4111	3.1	12
143	Preferred attachment of fluorine near oxygen-containing groups on the surface of double-walled carbon nanotubes. <i>Applied Surface Science</i> , <b>2020</b> , 504, 144357	6.7	12
142	Ni-N <sub>4</sub> sites in a single-atom Ni catalyst on N-doped carbon for hydrogen production from formic acid. <i>Journal of Catalysis</i> , <b>2021</b> , 402, 264-274	7.3	12
141	Electronic Structure of Nitrogen- and Phosphorus-Doped Graphenes Grown by Chemical Vapor Deposition Method. <i>Materials</i> , <b>2020</b> , 13,	3.5	11
140	In situ XPS Observation of Selective NO <sub>x</sub> Adsorption on the Oxygenated Graphene Films. <i>Physica Status Solidi (B): Basic Research</i> , <b>2018</b> , 255, 1700267	1.3	11
139	Structural Evolution and Magnetic Properties of Underfluorinated C <sub>2</sub> F. <i>Journal of Superconductivity and Novel Magnetism</i> , <b>2012</b> , 25, 79-83	1.5	11
138	Effect of the graphite oxide composition on the structure of products obtained by sulfuric acid treatment at elevated temperatures. <i>Journal of Structural Chemistry</i> , <b>2017</b> , 58, 1180-1186	0.9	11
137	Chlorination of perforated graphite via interaction with thionylchloride. <i>Physica Status Solidi (B): Basic Research</i> , <b>2014</b> , 251, 2613-2619	1.3	11
136	Supercapacitor Performance of Aligned Carbon Nanotube/Polyaniline Composite Depending on the Duration of Aniline Polycondensation. <i>Fullerenes Nanotubes and Carbon Nanostructures</i> , <b>2012</b> , 20, 519-522	1.8	11



135	Transport and magnetic properties of multiwall carbon nanotubes before and after bromination. <i>Physics of the Solid State</i> , <b>2002</b> , 44, 659-662	0.8	11
134	Effect of boron and nitrogen additives on structure and transport properties of arc-produced carbon. <i>Carbon</i> , <b>2019</b> , 143, 660-668	10.4	11
133	Role of Defects in Carbon Nanotube Walls in Deposition of CdS Nanoparticles from a Chemical Bath. <i>Journal of Physical Chemistry C</i> , <b>2015</b> , 119, 25898-25906	3.8	10
132	Charge polarization in partially lithiated single-walled carbon nanotubes. <i>Physical Chemistry Chemical Physics</i> , <b>2018</b> , 20, 22592-22599	3.6	10
131	Tabby graphene: Dimensional magnetic crossover in fluorinated graphite. <i>Scientific Reports</i> , <b>2017</b> , 7, 16544	4.9	10
130	Nitrogen species in few-layer graphene produced by thermal exfoliation of fluorinated graphite intercalation compounds. <i>Physica Status Solidi (B): Basic Research</i> , <b>2015</b> , 252, 2444-2450	1.3	10
129	Anisotropic Permittivity of Multi-Walled Carbon Nanotube/Polystyrene Composites. <i>Fullerenes Nanotubes and Carbon Nanostructures</i> , <b>2012</b> , 20, 523-526	1.8	10
128	Layered compounds based on perforated graphene. <i>Journal of Structural Chemistry</i> , <b>2011</b> , 52, 903-909	0.9	10
127	A comparative study of argon ion irradiated pristine and fluorinated single-wall carbon nanotubes. <i>Journal of Chemical Physics</i> , <b>2010</b> , 133, 224706	3.9	10
126	Surface electronic structure of detonation nanodiamonds after oxidative treatment. <i>Diamond and Related Materials</i> , <b>2007</b> , 16, 2090-2092	3.5	10
125	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> , <b>2004</b> , 99, 1244-1252	1	10
124	Electronic structure and arrangement of purified HiPco carbon nanotubes. <i>Carbon</i> , <b>2004</b> , 42, 1095-1098	10.4	10
123	Hydrothermal Activation of Porous Nitrogen-Doped Carbon Materials for Electrochemical Capacitors and Sodium-Ion Batteries. <i>Nanomaterials</i> , <b>2020</b> , 10,	5.4	10
122	Enhanced supercapacitance of vertically aligned multi-wall carbon nanotube array covered by MoS <sub>2</sub> nanoparticles. <i>Physica Status Solidi (B): Basic Research</i> , <b>2016</b> , 253, 2451-2456	1.3	10
121	Nanoscale coupling of MoS <sub>2</sub> and graphene via rapid thermal decomposition of ammonium tetrathiomolybdate and graphite oxide for boosting capacity of Li-ion batteries. <i>Carbon</i> , <b>2021</b> , 173, 194-204	10.4	10
120	Iron-filled multi-walled carbon nanotubes for terahertz applications: effects of interfacial polarization, screening and anisotropy. <i>Nanotechnology</i> , <b>2018</b> , 29, 174003	3.4	9
119	Fluorinated Surface of Carbon Nanotube Buckypaper for Uniform Growth of CdS Nanoparticles. <i>Journal of Physical Chemistry C</i> , <b>2017</b> , 121, 19182-19190	3.8	9
118	Low-frequency (1050 kHz) impedance of polystyrene-onion-like-carbon composites. <i>Technical Physics Letters</i> , <b>2009</b> , 35, 85-88	0.7	9



117	Curvature-Induced Optical Transitions in Graphene. <i>Fullerenes Nanotubes and Carbon Nanostructures</i> , <b>2012</b> , 20, 558-562	1.8	9
116	Electrical Transport in Devices Based on Edge-Fluorinated Graphene. <i>Advanced Electronic Materials</i> , <b>2018</b> , 4, 1800073	6.4	9
115	Sensor properties of electron beam irradiated fluorinated graphite. <i>Journal of Nanophotonics</i> , <b>2015</b> , 10, 012512	1.1	8
114	Carbon Nanotube Synthesis Using Fe-Mo/MgO Catalyst with Different Ratios of CH <sub>4</sub> and H <sub>2</sub> Gases. <i>Physica Status Solidi (B): Basic Research</i> , <b>2018</b> , 255, 1700274	1.3	8
113	X-ray spectroscopy study of lithiated graphite obtained by thermal deposition of lithium. <i>Journal of Structural Chemistry</i> , <b>2017</b> , 58, 1173-1179	0.9	8
112	Field emission properties of aligned CN <sub>x</sub> nanotube arrays synthesized by pyrolysis of a ferrocene/acetonitrile aerosol at different temperatures. <i>Physica Status Solidi (B): Basic Research</i> , <b>2015</b> , 252, 2524-2529	1.3	8
111	XANES Investigation of Pristine and Fluorinated Single-Walled Carbon Nanotubes Before and After Annealing. <i>Fullerenes Nanotubes and Carbon Nanostructures</i> , <b>2010</b> , 18, 595-599	1.8	8
110	Synthesis of a hybrid material from CdS nanoparticles and carbon nanotubes. <i>Russian Chemical Bulletin</i> , <b>2010</b> , 59, 1720-1723	1.7	8
109	The temperature dependence of the electrical resistivity and the negative magnetoresistance of carbon nanoparticles. <i>Physics of the Solid State</i> , <b>2002</b> , 44, 487-489	0.8	8
108	Electronic state of nanodiamond/graphite interfaces. <i>Applied Physics A: Materials Science and Processing</i> , <b>2005</b> , 81, 393-398	2.6	8
107	Electro- and Photoluminescence of CdS Nanoparticles Deposited on Carbon Nanotubes. <i>Journal of Nanoelectronics and Optoelectronics</i> , <b>2013</b> , 8, 36-41	1.3	8
106	Catalysts with single metal atoms for the hydrogen production from formic acid. <i>Catalysis Reviews - Science and Engineering</i> , 1-40	12.6	8
105	Optimization of Parameters of Graphene Synthesis on Copper Foil at Low Methan Pressure. <i>Journal of Structural Chemistry</i> , <b>2018</b> , 59, 759-765	0.9	8
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103	Effect of Charge Transfer upon Li- and Na-Ion Insertion in Fine-Grained Graphitic Material as Probed by NMR. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2019</b> , 11, 9291-9300	9.5	7
102	Light-Induced Sulfur Transport inside Single-Walled Carbon Nanotubes. <i>Nanomaterials</i> , <b>2020</b> , 10,	5.4	7
101	Electromagnetic properties of phosphate composite materials with boron-containing carbon nanotubes. <i>Physics of the Solid State</i> , <b>2014</b> , 56, 2537-2542	0.8	7
100	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. <i>Journal of Structural Chemistry</i> , <b>2012</b> , 53, 740-747	0.9	7

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95	Optical Absorption and Raman Spectroscopy Study of the Fluorinated Double-Wall Carbon Nanotubes. <i>Fullerenes Nanotubes and Carbon Nanostructures</i> , <b>2006</b> , 14, 233-238	1.8	7
94	Field Emission Characteristics of Periodically Structured Carbon Nanotube Arrays. <i>Journal of Nanoelectronics and Optoelectronics</i> , <b>2013</b> , 8, 52-57	1.3	7
93	Chemiresistive Properties of Imprinted Fluorinated Graphene Films. <i>Materials</i> , <b>2020</b> , 13,	3.5	7
92	Light polarizer in visible and THz range based on single-wall carbon nanotubes embedded into poly(methyl methacrylate) film. <i>Laser Physics Letters</i> , <b>2016</b> , 13, 065901	1.5	7
91	Phosphorus incorporation into graphitic material via hot pressing of graphite oxide and triphenylphosphine. <i>Synthetic Metals</i> , <b>2019</b> , 248, 53-58	3.6	7
90	Structure and Electrochemical Properties of Carbon Nanotubes Synthesized with Catalysts Obtained by Decomposition of Co, Ni, and Fe Polyoxomolybdates Supported by MgO. <i>Journal of Structural Chemistry</i> , <b>2018</b> , 59, 786-792	0.9	7
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77	Effect of ultrasound pretreatment on bromination of double-walled carbon nanotubes. <i>Synthetic Metals</i> , <b>2020</b> , 259, 116233	3.6	6
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73	Room temperature synthesis of fluorinated graphite intercalation compounds with low fluorine loading of host matrix. <i>Journal of Fluorine Chemistry</i> , <b>2020</b> , 232, 109482	2.1	5
72	Modification of structure and conductivity of nanohorns by toluene addition in carbon arc. <i>Fullerenes Nanotubes and Carbon Nanostructures</i> , <b>2020</b> , 28, 342-347	1.8	5
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59	Creation of metasurface from vertically aligned carbon nanotubes as versatile platform for ultra-light THz components. <i>Nanotechnology</i> , <b>2020</b> , 31, 255703	3.4	4
58	Comparative NEXAFS examination of single-wall carbon nanotubes produced by different methods. <i>Physica Status Solidi (B): Basic Research</i> , <b>2009</b> , 246, 2637-2640	1.3	4
57	Growth of carbon nanotubes via chemical vapor deposition on Co catalyst nanoparticles dispersed in CaO. <i>Inorganic Materials</i> , <b>2008</b> , 44, 213-218	0.9	4
56	X-ray emission and X-ray photoelectron spectroscopic studies of fullerene fluoride C <sub>60</sub> F <sub>24</sub> . <i>Physics of the Solid State</i> , <b>2007</b> , 49, 1195-1200	0.8	4
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54	Electronic structure of diamond/graphite composite nanoparticles. <i>European Physical Journal D</i> , <b>2005</b> , 34, 157-160	1.3	4
53	Maxwell-Garnett Description of Permittivity of Onion-Like Carbon/Polystyrene Composites. <i>Journal of Nanoelectronics and Optoelectronics</i> , <b>2009</b> , 4, 267-270	1.3	4
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50	Magnetic studies of polystyrene/iron-filled multi-wall carbon nanotube composite films. <i>Journal of Magnetism and Magnetic Materials</i> , <b>2016</b> , 415, 51-56	2.8	3
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41	Spontaneous symmetry breaking during the switching of a buckled graphene membrane. <i>JETP Letters</i> , <b>2016</b> , 103, 244-247	1.2	3
40	Multiscale characterization of synthetic diamonds obtained by gas-jet deposition. <i>Journal of Physics: Conference Series</i> , <b>2018</b> , 1105, 012132	0.3	3
39	Continuous synthesis of aligned carbon nanotube arrays on copper substrates using laser-activated gas jet. <i>Applied Physics Letters</i> , <b>2018</b> , 113, 223102	3.4	3
38	Localization of electron density in twisted bilayer graphene. <i>Physica Status Solidi - Rapid Research Letters</i> , <b>2017</b> , 11, 1600367	2.5	2
37	Revealing distortion of carbon nanotube walls via angle-resolved X-ray spectroscopy. <i>Current Applied Physics</i> , <b>2015</b> , 15, 1111-1116	2.6	2
36	Hydrogen Plasma Treatment of Aligned Multi-Walled Carbon Nanotube Arrays for Improvement of Field Emission Properties. <i>Materials</i> , <b>2020</b> , 13,	3.5	2
35	Sodium storage properties of thin phosphorus-doped graphene layers developed on the surface of nanodiamonds under hot pressing conditions. <i>Fullerenes Nanotubes and Carbon Nanostructures</i> , <b>2020</b> , 28, 335-341	1.8	2
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| 9 | Optical absorption and photoluminescence of partially fluorinated graphite crystallites. <i>Carbon</i> , <b>2022</b> , 193, 98-106  | 10.4 | o |
| 8 | Cucurbit[6]uril as a co-catalyst for the hydrogen production from formic acid. <i>Materials Today Energy</i> , <b>2022</b> , 100998   | 7    | o |
| 7 | Effect of iron nanoparticles in the films of composite materials and carbon nanotubes on the angular dependence of X-ray emission. <i>Journal of Structural Chemistry</i> , <b>2011</b> , 52, 50-54                   | 0.9  |   |
| 6 | Investigation of electronic interactions in solid hydrogen fluoride. <i>Journal of Structural Chemistry</i> , <b>1997</b> , 38, 570-577   | 0.9  |   |
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| 4 | Electronic state of carbon in carbonaceous chondrite meteorites. <i>Physica Status Solidi (B): Basic Research</i> , <b>2007</b> , 244, 3955-3959  | 1.3  |   |
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| 1 | 5. Characterization methods <b>2018</b> , 261-408   |      |   |