

Alexander Okotrub

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

342
papers

6,200
citations

35
h-index

65
g-index

354
ext. papers

7,017
ext. citations

3.3
avg, IF

5.64
L-index

#	Paper	IF	Citations
342	Photolysis of Fluorinated Graphites with Embedded Acetonitrile Using a White-Beam Synchrotron Radiation.. <i>Nanomaterials</i> , 2022 , 12,	5.4	1
341	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	10.4	5
340	Cucurbit[6]uril as a co-catalyst for the hydrogen production from formic acid. <i>Materials Today Energy</i> , 2022 , 100998	7	0
339	Lithium-induced intralayer rearrangement of molybdenum disulfide: Effect of graphene coating. <i>Applied Surface Science</i> , 2022 , 598, 153846	6.7	1
338	Study of Vertically Aligned Multi-Walled Carbon Nanotubes Array for an Absolutely Black Body. <i>Inorganic Materials: Applied Research</i> , 2021 , 12, 1164-1167	0.6	2
337	Electrically activated chemical bath deposition of CdS on carbon nanotube arrays. <i>Synthetic Metals</i> , 2021 , 273, 116671	3.6	0
336	Iron induced porosity of the templated carbon for enhancement of electrochemical capacitance. <i>Applied Surface Science</i> , 2021 , 543, 148565	6.7	1
335	Enhancement of Volumetric Capacitance of Binder-Free Single-Walled Carbon Nanotube Film via Fluorination. <i>Nanomaterials</i> , 2021 , 11,	5.4	2
334	Effect of Toluene Addition in an Electric Arc on Morphology, Surface Modification, and Oxidation Behavior of Carbon Nanohorns and Their Sedimentation in Water. <i>Nanomaterials</i> , 2021 , 11,	5.4	2
333	Engineering selenium-doped nitrogen-rich carbon nanosheets as anode materials for enhanced Na-ion storage. <i>Journal of Power Sources</i> , 2021 , 493, 229700	8.9	6
332	On the stability of Li intercalated fine-grained graphitic material. <i>Carbon</i> , 2021 , 173, 792-799	10.4	0
331	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	10.4	10
330	Porosity and composition of nitrogen-doped carbon materials templated by the thermolysis products of calcium tartrate and their performance in electrochemical capacitors. <i>Journal of Alloys and Compounds</i> , 2021 , 858, 158259	5.7	6
329	Fluorine patterning of graphene: effects of fluorine content and temperature. <i>Nanoscale</i> , 2021 , 13, 1206-1214	7.7	4
328	Comment on On the Difficulties and Pitfalls with the Analysis of Solid-State ¹³ C NMR Spectra in Graphitic Materials <i>Applied Magnetic Resonance</i> , 2021 , 52, 81-90	0.8	1
327	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. <i>Journal of Structural Chemistry</i> , 2021 , 62, 153-162	0.9	2
326	Ni-N ₄ 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	7.3	12

325	Redox reactions between acetonitrile and nitrogen dioxide in the interlayer space of fluorinated graphite matrices. <i>Physical Chemistry Chemical Physics</i> , 2021 , 23, 10580-10590	3.6	2
324	Simulated Raman spectra of bulk and low-dimensional phosphorus allotropes. <i>Physical Chemistry Chemical Physics</i> , 2021 , 23, 16611-16622	3.6	1
323	Band gap opening in the BiSbTeSe ₂ topological surface state induced by ferromagnetic surface reordering. <i>Physical Review Materials</i> , 2021 , 5,	3.2	1
322	Hydrogen Plasma Treatment of Aligned Multi-Walled Carbon Nanotube Arrays for Improvement of Field Emission Properties. <i>Materials</i> , 2020 , 13,	3.5	2
321	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	19.4	35
320	Study of cytotoxicity performance of carbon nanohorns by method of spin probes. <i>Fullerenes Nanotubes and Carbon Nanostructures</i> , 2020 , 28, 737-744	1.8	1
319	Anode materials from MoS ₂ and multilayered holey graphene for Li-ion batteries. <i>Fullerenes Nanotubes and Carbon Nanostructures</i> , 2020 , 28, 328-334	1.8	5
318	Electronic Structure of Nitrogen- and Phosphorus-Doped Graphenes Grown by Chemical Vapor Deposition Method. <i>Materials</i> , 2020 , 13,	3.5	11
317	A Memristive Model for Graphene Emitters: Hysteresis and Self-Crossing. <i>Physica Status Solidi (B): Basic Research</i> , 2020 , 257, 2000020	1.3	2
316	Creation of metasurface from vertically aligned carbon nanotubes as versatile platform for ultra-light THz components. <i>Nanotechnology</i> , 2020 , 31, 255703	3.4	4
315	Room temperature synthesis of fluorinated graphite intercalation compounds with low fluorine loading of host matrix. <i>Journal of Fluorine Chemistry</i> , 2020 , 232, 109482	2.1	5
314	Effect of Fluorine Patterns on Electronic Transport in Fluorinated Graphene. <i>Advanced Theory and Simulations</i> , 2020 , 3, 1900199	3.5	4
313	MWCNT buckypaper/polypyrrole nanocomposites for supercapacitor application. <i>Electrochimica Acta</i> , 2020 , 335, 135700	6.7	18
312	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> , 2020 , 28, 335-341	1.8	2
311	Modification of structure and conductivity of nanohorns by toluene addition in carbon arc. <i>Fullerenes Nanotubes and Carbon Nanostructures</i> , 2020 , 28, 342-347	1.8	5
310	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	1.8	4
309	Light-Induced Sulfur Transport inside Single-Walled Carbon Nanotubes. <i>Nanomaterials</i> , 2020 , 10,	5.4	7
308	X-ray photoelectron study of electrical double layer at graphene/phosphoric acid interface. <i>Applied Surface Science</i> , 2020 , 515, 146007	6.7	2

307	Structure of Diamond Films Grown Using High-Speed Flow of a Thermally Activated CH-H Gas Mixture. <i>Materials</i> , 2020 , 13,	3.5	6
306	Effect of ultrasound pretreatment on bromination of double-walled carbon nanotubes. <i>Synthetic Metals</i> , 2020 , 259, 116233	3.6	6
305	Synthesis of Porous Nanostructured MoS ₂ Materials in Thermal Shock Conditions and Their Performance in Lithium-Ion Batteries. <i>ACS Applied Energy Materials</i> , 2020 , 3, 10802-10813	6.1	1
304	Structure, functional composition and electrochemical properties of nitrogen-doped multi-walled carbon nanotubes synthesized using CoMo, NiMo and FeMo catalysts. <i>Materials Chemistry and Physics</i> , 2020 , 255, 123563	4.4	3
303	Magnetic Properties of 1D IronSulfur Compounds Formed Inside Single-Walled Carbon Nanotubes. <i>Physica Status Solidi - Rapid Research Letters</i> , 2020 , 14, 2000291	2.5	2
302	Laser beam patterning of carbon nanotube arrays for the work of electron field emitters in technical vacuum. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2020 , 262, 114691	3.1	2
301	Hydrothermal Activation of Porous Nitrogen-Doped Carbon Materials for Electrochemical Capacitors and Sodium-Ion Batteries. <i>Nanomaterials</i> , 2020 , 10,	5.4	10
300	Chemiresistive Properties of Imprinted Fluorinated Graphene Films. <i>Materials</i> , 2020 , 13,	3.5	7
299	Preferred attachment of fluorine near oxygen-containing groups on the surface of double-walled carbon nanotubes. <i>Applied Surface Science</i> , 2020 , 504, 144357	6.7	12
298	Purification of Single-Walled Carbon Nanotubes Using Acid Treatment and Magnetic Separation. <i>Physica Status Solidi (B): Basic Research</i> , 2019 , 256, 1800742	1.3	13
297	Percolative Composites with Carbon Nanohorns: Low-Frequency and Ultra-High Frequency Response. <i>Materials</i> , 2019 , 12,	3.5	5
296	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	4	12
295	NEXAFS spectroscopy study of lithium interaction with nitrogen incorporated in porous graphitic material. <i>Journal of Materials Science</i> , 2019 , 54, 11168-11178	4.3	13
294	Redox Processes in Reduced Graphite Oxide Decorated by Carboxyl Functional Groups. <i>Physica Status Solidi (B): Basic Research</i> , 2019 , 256, 1800700	1.3	9
293	Holey graphene with enhanced near-infrared absorption: Experimental and DFT study. <i>Applied Physics Letters</i> , 2019 , 114, 091901	3.4	7
292	Chlorinated holey double-walled carbon nanotubes for relative humidity sensors. <i>Carbon</i> , 2019 , 148, 413-420	10.4	22
291	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	2.3	15
290	Effect of Charge Transfer upon Li- and Na-Ion Insertion in Fine-Grained Graphitic Material as Probed by NMR. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 9291-9300	9.5	7

289	An X-ray Spectral Study of the Electronic Structure of Non-Innocent Mono- and Binuclear Platinum Complexes with N-Phenyl-o-Benzosemiquinonediimine. <i>Journal of Structural Chemistry</i> , 2019 , 60, 909-918	0.9	1
288	Bromine polycondensation in pristine and fluorinated graphitic carbons. <i>Nanoscale</i> , 2019 , 11, 15298-15306	0.7	6
287	Pressure-Assisted Interface Engineering in MoS ₂ /Holey Graphene Hybrids for Improved Performance in Li-ion Batteries. <i>Energy Technology</i> , 2019 , 7, 1900659	3.5	5
286	The effect of carbon nanoparticles of various nature on the microviscosity of erythrocyte membranes in experimental animals. <i>Himia, Fizika Ta Tehnologija Poverhni</i> , 2019 , 10, 312-323	0.4	1
285	Effects of the Carbon Support Doping with Nitrogen for the Hydrogen Production from Formic Acid over Ni Catalysts. <i>Energies</i> , 2019 , 12, 4111	3.1	12
284	Effect of boron and nitrogen additives on structure and transport properties of arc-produced carbon. <i>Carbon</i> , 2019 , 143, 660-668	10.4	11
283	Phosphorus incorporation into graphitic material via hot pressing of graphite oxide and triphenylphosphine. <i>Synthetic Metals</i> , 2019 , 248, 53-58	3.6	7
282	Graphitization of ¹³ C enriched fine-grained graphitic material under high-pressure annealing. <i>Carbon</i> , 2019 , 141, 323-330	10.4	15
281	Creation of nanosized holes in graphene planes for improvement of rate capability of lithium-ion batteries. <i>Nanotechnology</i> , 2018 , 29, 134001	3.4	33
280	Iron-filled multi-walled carbon nanotubes for terahertz applications: effects of interfacial polarization, screening and anisotropy. <i>Nanotechnology</i> , 2018 , 29, 174003	3.4	9
279	Electrochemical Properties of the Ultrasonically Activated Thermally Expanded Graphite/Polyaniline Hybrid Material. <i>Physica Status Solidi (B): Basic Research</i> , 2018 , 255, 1700516	1.3	0
278	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	10.4	13
277	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	1.3	15
276	Carbon Nanotube Synthesis Using Fe-Mo/MgO Catalyst with Different Ratios of CH ₄ and H ₂ Gases. <i>Physica Status Solidi (B): Basic Research</i> , 2018 , 255, 1700274	1.3	8
275	Hyperthermal Effect of Infrared Irradiation on Aqueous Dispersion of Carbon Nanotubes and Their Penetration Into <i>Drosophila melanogaster</i> Larvae. <i>Physica Status Solidi (B): Basic Research</i> , 2018 , 255, 1700264	1.3	2
274	Electromagnetic Properties of Reduced Graphene Oxide Buckypapers Obtained by Different Reduction Procedures. <i>Physica Status Solidi (B): Basic Research</i> , 2018 , 255, 1700271	1.3	3
273	In situ XPS Observation of Selective NO _x Adsorption on the Oxygenated Graphene Films. <i>Physica Status Solidi (B): Basic Research</i> , 2018 , 255, 1700267	1.3	11
272	Effect of in-plane size of MoS ₂ nanoparticles grown over multilayer graphene on the electrochemical performance of anodes in Li-ion batteries. <i>Electrochimica Acta</i> , 2018 , 283, 45-53	6.7	13

271	The Automation of a CVD-Reactor for the Synthesis of Vertically Oriented Carbon Nanotube Arrays. <i>Instruments and Experimental Techniques</i> , 2018 , 61, 482-485	0.5	4
270	Charge polarization in partially lithiated single-walled carbon nanotubes. <i>Physical Chemistry Chemical Physics</i> , 2018 , 20, 22592-22599	3.6	10
269	Electronic and structural peculiarities of Br ₂ -embedded C ₂ F: XPS and DFT study. <i>AIP Advances</i> , 2018 , 8, 085319	1.5	3
268	A Laboratory CVD Reactor for the Synthesis of Vertically Oriented Carbon Nanotube Arrays. <i>Instruments and Experimental Techniques</i> , 2018 , 61, 604-609	0.5	3
267	Structure and supercapacitor properties of few-layer low-fluorinated graphene materials. <i>Journal of Materials Science</i> , 2018 , 53, 13053-13066	4.3	13
266	Heat-Induced Dip of Optical Limiting Threshold in Carbon Nanotube Aqueous Suspension. <i>Journal of Physical Chemistry C</i> , 2018 , 122, 16339-16345	3.8	9
265	Chemical sensors are hybrid-input memristors. <i>Applied Surface Science</i> , 2018 , 436, 1018-1021	6.7	5
264	Effect of Hydrogen Fluoride Addition and Synthesis Temperature on the Structure of Double-Walled Carbon Nanotubes Fluorinated by Molecular Fluorine. <i>Physica Status Solidi (B): Basic Research</i> , 2018 , 255, 1700261	1.3	2
263	Fluorination as Effective Method for Tuning the Electromagnetic Response of Graphene. <i>Physica Status Solidi (B): Basic Research</i> , 2018 , 255, 1700226	1.3	5
262	Multiscale characterization of synthetic diamonds obtained by gas-jet deposition. <i>Journal of Physics: Conference Series</i> , 2018 , 1105, 012132	0.3	3
261	5. Characterization methods 2018 , 261-408		
260	Continuous synthesis of aligned carbon nanotube arrays on copper substrates using laser-activated gas jet. <i>Applied Physics Letters</i> , 2018 , 113, 223102	3.4	3
259	Arrays of vertically aligned multi-walled carbon nanotubes grown on silicon and copper substrates by thermal decomposition of ferrocene-toluene aerosol. <i>Journal of Physics: Conference Series</i> , 2018 , 1105, 012141	0.3	
258	Effect of Hot Pressing on the Electrochemical Performance of Multilayer Holey Graphene Materials in Li-ion Batteries. <i>Physica Status Solidi (B): Basic Research</i> , 2018 , 255, 1800202	1.3	5
257	Optical Properties of CdS Quantum Dots on Graphene. <i>Journal of Structural Chemistry</i> , 2018 , 59, 870-876	6.9	5
256	Scientific Achievements in Studying Graphene and Related Structures. <i>Journal of Structural Chemistry</i> , 2018 , 59, 755-758	0.9	
255	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> , 2018 , 59, 786-792	0.9	7
254	Optimization of Parameters of Graphene Synthesis on Copper Foil at Low Methan Pressure. <i>Journal of Structural Chemistry</i> , 2018 , 59, 759-765	0.9	8

253	Electron Transport and Piezoresistive Effect in Single-Walled Carbon Nanotube Films on Polyethylene Terephthalate Substrates. <i>Journal of Structural Chemistry</i> , 2018 , 59, 905-912	0.9	1
252	Temperature Dependence of Electrical Conductivity and Thermoelectric Power of Transparent SWCNT Films Obtained by Aerosol CVD Synthesis. <i>Physica Status Solidi (B): Basic Research</i> , 2018 , 255, 1700642	1.3	4
251	Localized plasmon resonance in boron-doped multiwalled carbon nanotubes. <i>Physical Review B</i> , 2018 , 97,	3.3	6
250	Electrical Transport in Devices Based on Edge-Fluorinated Graphene. <i>Advanced Electronic Materials</i> , 2018 , 4, 1800073	6.4	9
249	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> , 2017 , 121, 5108-5114	3.8	25
248	Copper on carbon materials: stabilization by nitrogen doping. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 10574-10583	13	62
247	Extra electronic outer-shell peculiarities accessible under a joint XPS and DFT study. <i>Physical Chemistry Chemical Physics</i> , 2017 , 19, 15842-15848	3.6	2
246	Advantage of graphene fluorination instead of oxygenation for restorable adsorption of gaseous ammonia and nitrogen dioxide. <i>Carbon</i> , 2017 , 118, 225-232	10.4	26
245	Localization of Electron density in twisted bilayer graphene. <i>Physica Status Solidi - Rapid Research Letters</i> , 2017 , 11, 1600367	2.5	2
244	Grain size effect in conductive phosphate / carbon nanotube ceramics. <i>Ceramics International</i> , 2017 , 43, 4965-4969	5.1	4
243	Factors Influencing the Performance of Pd/C Catalysts in the Green Production of Hydrogen from Formic Acid. <i>ChemSusChem</i> , 2017 , 10, 720-730	8.3	62
242	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	3	21
241	Effect of the fluorination technique on the surface-fluorination patterning of double-walled carbon nanotubes. <i>Beilstein Journal of Nanotechnology</i> , 2017 , 8, 1688-1698	3	23
240	Multiscale characterization of ¹³ C-enriched fine-grained graphitic materials for chemical and electrochemical applications. <i>Carbon</i> , 2017 , 124, 161-169	10.4	13
239	Single-Walled Carbon Nanotube Reactor for Redox Transformation of Mercury Dichloride. <i>ACS Nano</i> , 2017 , 11, 8643-8649	16.7	24
238	Fluorinated Surface of Carbon Nanotube Buckypaper for Uniform Growth of CdS Nanoparticles. <i>Journal of Physical Chemistry C</i> , 2017 , 121, 19182-19190	3.8	9
237	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> , 2017 , 58, 1180-1186	0.9	11
236	X-ray and x-ray electron spectroscopy of new materials. <i>Journal of Structural Chemistry</i> , 2017 , 58, 1057-1060	6	4

235	Tabby graphene: Dimensional magnetic crossover in fluorinated graphite. <i>Scientific Reports</i> , 2017 , 7, 16544	4.9	10
234	Functional composition and electrochemical characteristics of oxidized nanosized carbon. <i>Journal of Structural Chemistry</i> , 2017 , 58, 1187-1195	0.9	6
233	Structure of carbon nanoparticles synthesized by adiabatic compression of acetylene and their application in supercapacitors. <i>Journal of Structural Chemistry</i> , 2017 , 58, 1196-1204	0.9	2
232	An X-ray spectroscopy study of CdS nanoparticles formed by the LangmuirBlodgett technique on the surface of carbon nanotube arrays. <i>Journal of Structural Chemistry</i> , 2017 , 58, 876-884	0.9	3
231	X-ray spectroscopy study of lithiated graphite obtained by thermal deposition of lithium. <i>Journal of Structural Chemistry</i> , 2017 , 58, 1173-1179	0.9	8
230	Synthesis and modification of carbon nanohorns structure for hyperthermic application. <i>Journal of Structural Chemistry</i> , 2017 , 58, 1205-1212	0.9	8
229	Leaky graphene oxide with high quantum yield and dual-wavelength photoluminescence. <i>Carbon</i> , 2016 , 108, 461-470	10.4	17
228	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	1.3	13
227	Thermally exfoliated fluorinated graphite for NO ₂ gas sensing. <i>Physica Status Solidi (B): Basic Research</i> , 2016 , 253, 2492-2498	1.3	13
226	Effect of oxidative treatment on the electrochemical properties of aligned multi-walled carbon nanotubes. <i>Russian Journal of Electrochemistry</i> , 2016 , 52, 441-448	1.2	14
225	Magnetic studies of polystyrene/iron-filled multi-wall carbon nanotube composite films. <i>Journal of Magnetism and Magnetic Materials</i> , 2016 , 415, 51-56	2.8	3
224	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	13.1	183
223	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	10	19
222	Memristive model of hysteretic field emission from carbon nanotube arrays. <i>Journal of Nanophotonics</i> , 2016 , 10, 012524	1.1	10
221	The influence of water/organic solvent composition on the morphology and luminescent properties of CdS nanoparticles obtained by chemical precipitation. <i>Colloid Journal</i> , 2016 , 78, 30-36	1.1	2
220	Fabrication of free-standing aligned multiwalled carbon nanotube array for Li-ion batteries. <i>Journal of Power Sources</i> , 2016 , 311, 42-48	8.9	25
219	Assessing carbon nanotube arrangement in polystyrene matrix by magnetic susceptibility measurements. <i>Carbon</i> , 2016 , 96, 1077-1083	10.4	12
218	Shielding effects in thin films of carbon nanotubes within microwave range. <i>Lithuanian Journal of Physics</i> , 2016 , 56,	1.1	1

217	Light polarizer in visible and THz range based on single-wall carbon nanotubes embedded into poly(methyl methacrylate) film. <i>Laser Physics Letters</i> , 2016 , 13, 065901	1.5	7
216	Photon correlation spectroscopic and spectrophotometric studies of the formation of cadmium sulfide nanoparticles in ammonia thiourea solutions. <i>Russian Journal of Physical Chemistry A</i> , 2016 , 90, 1034-1038	0.7	2
215	RNA-modified carbon nanotube arrays recognizing RNA via electrochemical capacitance response. <i>Materials and Design</i> , 2016 , 100, 67-72	8.1	10
214	Spontaneous symmetry breaking during the switching of a buckled graphene membrane. <i>JETP Letters</i> , 2016 , 103, 244-247	1.2	3
213	Many-body effects in optical response of graphene-based structures. <i>International Journal of Quantum Chemistry</i> , 2016 , 116, 270-281	2.1	16
212	Mechanism of Formation of Cadmium Sulfide Nanoparticles on Polystyrene Supports from Ammonia Thiourea Solutions. <i>Russian Journal of Physical Chemistry A</i> , 2016 , 90, 827-832	0.7	3
211	Z-scanning under monochromatic laser pumping: a study of saturatable absorption in a suspension of multiwalled carbon nanotubes. <i>Quantum Electronics</i> , 2016 , 46, 719-725	1.8	6
210	Enhanced supercapacitance of vertically aligned multi-wall carbon nanotube array covered by MoS ₂ nanoparticles. <i>Physica Status Solidi (B): Basic Research</i> , 2016 , 253, 2451-2456	1.3	10
209	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	3.5	15
208	Phosphate ceramics / Carbon nanotubes composites: liquid aluminum phosphate vs solid magnesium phosphate binder. <i>Ceramics International</i> , 2015 , 41, 12147-12152	5.1	18
207	Revealing distortion of carbon nanotube walls via angle-resolved X-ray spectroscopy. <i>Current Applied Physics</i> , 2015 , 15, 1111-1116	2.6	2
206	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, 23741-7	3.6	51
205	Pd clusters supported on amorphous, low-porosity carbon spheres for hydrogen production from formic acid. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 8719-26	9.5	32
204	Field emission luminescence of nanodiamonds deposited on the aligned carbon nanotube array. <i>Scientific Reports</i> , 2015 , 5, 9379	4.9	49
203	Sensor properties of electron beam irradiated fluorinated graphite. <i>Journal of Nanophotonics</i> , 2015 , 10, 012512	1.1	8
202	One-step preparation of multiwall carbon nanotube/silicon hybrids for solar energy conversion. <i>Journal of Nanophotonics</i> , 2015 , 10, 012507	1.1	3
201	Role of Defects in Carbon Nanotube Walls in Deposition of CdS Nanoparticles from a Chemical Bath. <i>Journal of Physical Chemistry C</i> , 2015 , 119, 25898-25906	3.8	10
200	A backside fluorine-functionalized graphene layer for ammonia detection. <i>Physical Chemistry Chemical Physics</i> , 2015 , 17, 444-50	3.6	35

199	Charge-induced formation of thin conducting layers on fluorinated graphite surface. <i>Carbon</i> , 2015 , 82, 446-458	10.4	21
198	Field emission properties of aligned CNx nanotube arrays synthesized by pyrolysis of a ferrocene/acetonitrile aerosol at different temperatures. <i>Physica Status Solidi (B): Basic Research</i> , 2015 , 252, 2524-2529	1.3	8
197	Efficient one-pot combustion synthesis of few-layered graphene. <i>Physica Status Solidi (B): Basic Research</i> , 2015 , 252, 2412-2417	1.3	7
196	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	1.3	10
195	Graphitic and pyridinic nitrogen in carbon nanotubes: energetic and polarization aspects. <i>Journal of Nanophotonics</i> , 2015 , 10, 012510	1.1	2
194	Polymer-assisted forge-rolling disaggregation of detonation nanodiamonds and onion-like carbon. <i>International Journal of Nanotechnology</i> , 2015 , 12, 182	1.5	5
193	Edge state magnetism in zigzag-interfaced graphene via spin susceptibility measurements. <i>Scientific Reports</i> , 2015 , 5, 13382	4.9	33
192	NiMo and CoMo alloy nanoparticles for catalytic chemical vapor deposition synthesis of carbon nanotubes. <i>Journal of Alloys and Compounds</i> , 2015 , 621, 351-356	5.7	58
191	Nitrogen inserting in fluorinated graphene via annealing of acetonitrile intercalated graphite fluoride. <i>Physica Status Solidi (B): Basic Research</i> , 2014 , 251, 2530-2535	1.3	14
190	Nanometer-Sized MoS ₂ Clusters on Graphene Flakes for Catalytic Formic Acid Decomposition. <i>ACS Catalysis</i> , 2014 , 4, 3950-3956	13.1	39
189	Supercapacitor performance of vertically aligned multiwall carbon nanotubes produced by aerosol-assisted CCVD method. <i>Electrochimica Acta</i> , 2014 , 139, 165-172	6.7	37
188	Structure and supercapacitor performance of graphene materials obtained from brominated and fluorinated graphites. <i>Carbon</i> , 2014 , 78, 137-146	10.4	57
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