

Alexander Okotrub

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342
papers

6,200
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354
ext. papers

7,017
ext. citations

3.3
avg, IF

5.64
L-index

#	Paper	IF	Citations
342	Fluorographene: a two-dimensional counterpart of Teflon. <i>Small</i> , 2010 , 6, 2877-84	11	979
341	Electrochemical properties of nitrogen-doped carbon nanotube anode in Li-ion batteries. <i>Carbon</i> , 2011 , 49, 4013-4023	10.4	282
340	Charge Transfer in the MoS ₂ /Carbon Nanotube Composite. <i>Journal of Physical Chemistry C</i> , 2011 , 115, 21199-21204	3.8	222
339	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
338	Effect of nitrogen doping on Raman spectra of multi-walled carbon nanotubes. <i>Physica Status Solidi (B): Basic Research</i> , 2008 , 245, 1971-1974	1.3	150
337	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	6.7	125
336	Influence of Ni ₁₀ Catalyst Composition on Nitrogen Content in Carbon Nanotubes. <i>Journal of Physical Chemistry B</i> , 2004 , 108, 9048-9053	3.4	106
335	Double layer supercapacitor properties of onion-like carbon materials. <i>Physica Status Solidi (B): Basic Research</i> , 2008 , 245, 2296-2299	1.3	91
334	"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, 17236-44	9.5	86
333	Electrochemical performance of arc-produced carbon nanotubes as anode material for lithium-ion batteries. <i>Electrochimica Acta</i> , 2007 , 52, 5286-5293	6.7	71
332	Electronic Structure of (n,0) Zigzag Carbon Nanotubes: Cluster and Crystal Approach. <i>Journal of Physical Chemistry A</i> , 1998 , 102, 975-981	2.8	63
331	Copper on carbon materials: stabilization by nitrogen doping. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 10574-10583	13	62
330	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
329	Ab initio study of dielectric response of rippled graphene. <i>Journal of Chemical Physics</i> , 2011 , 134, 244707	3.9	62
328	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	2.8	62
327	Fluorination of Arc-Produced Carbon Material Containing Multiwall Nanotubes. <i>Chemistry of Materials</i> , 2002 , 14, 1472-1476	9.6	61
326	Ni ₃ Mo and Co ₃ Mo 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

325	Bromination of Double-Walled Carbon Nanotubes. <i>Chemistry of Materials</i> , 2012 , 24, 2708-2715	9.6	58
324	Structure and supercapacitor performance of graphene materials obtained from brominated and fluorinated graphites. <i>Carbon</i> , 2014 , 78, 137-146	10.4	57
323	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	16.7	55
322	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
321	Effect of nitrogen doping on the electromagnetic properties of carbon nanotube-based composites. <i>Journal of Applied Physics</i> , 2013 , 113, 144315	2.5	51
320	Field emission luminescence of nanodiamonds deposited on the aligned carbon nanotube array. <i>Scientific Reports</i> , 2015 , 5, 9379	4.9	49
319	Graphene nanochains and nanoislands in the layers of room-temperature fluorinated graphite. <i>Carbon</i> , 2013 , 59, 518-529	10.4	46
318	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	3.8	44
317	Stability of Fluorinated Double-Walled Carbon Nanotubes Produced by Different Fluorination Techniques. <i>Chemistry of Materials</i> , 2010 , 22, 4197-4203	9.6	44
316	Fluorinated cage multiwall carbon nanoparticles. <i>Chemical Physics Letters</i> , 2000 , 322, 231-236	2.5	40
315	Nanometer-Sized MoS ₂ Clusters on Graphene Flakes for Catalytic Formic Acid Decomposition. <i>ACS Catalysis</i> , 2014 , 4, 3950-3956	13.1	39
314	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
313	CK β Spectra and Investigation of Electronic Structure of Fullerene Compounds. <i>Fullerenes, Nanotubes, and Carbon Nanostructures</i> , 1998 , 6, 405-432		36
312	A backside fluorine-functionalized graphene layer for ammonia detection. <i>Physical Chemistry Chemical Physics</i> , 2015 , 17, 444-50	3.6	35
311	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
310	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, 114304	2.5	35
309	Effect of Fe/Ni catalyst composition on nitrogen doping and field emission properties of carbon nanotubes. <i>Carbon</i> , 2008 , 46, 864-869	10.4	35
308	Reactivity of pyrrhotite (Fe ₉ S ₁₀) surfaces: Spectroscopic studies. <i>Physical Chemistry Chemical Physics</i> , 2000 , 2, 4393-4398	3.6	35

307	Synthesis and structure of films consisting of carbon nanotubes oriented normally to the substrate. <i>Technical Physics</i> , 2007 , 52, 1627-1631	0.5	34
306	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
305	Edge state magnetism in zigzag-interfaced graphene via spin susceptibility measurements. <i>Scientific Reports</i> , 2015 , 5, 13382	4.9	33
304	Comparative study of fluorinated single- and few-wall carbon nanotubes by X-ray photoelectron and X-ray absorption spectroscopy. <i>Carbon</i> , 2009 , 47, 1629-1636	10.4	33
303	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
302	Field emission from products of nanodiamond annealing. <i>Carbon</i> , 2004 , 42, 1099-1102	10.4	31
301	Formation of MoS ₂ nanoparticles on the surface of reduced graphite oxide. <i>Physica Status Solidi (B): Basic Research</i> , 2011 , 248, 2740-2743	1.3	30
300	Fe nanowires in carbon nanotubes as an example of a one-dimensional system of exchange-coupled ferromagnetic nanoparticles. <i>JETP Letters</i> , 2003 , 78, 236-240	1.2	30
299	Supercapacitor performance of nitrogen-doped carbon nanotube arrays. <i>Physica Status Solidi (B): Basic Research</i> , 2013 , 250, 2586-2591	1.3	29
298	Arrays of carbon nanotubes aligned perpendicular to the substrate surface: Anisotropy of structure and properties. <i>Nanotechnologies in Russia</i> , 2008 , 3, 191-200	0.6	28
297	Gas-phase synthesis of nitrogen-containing carbon nanotubes and their electronic properties. <i>Physics of the Solid State</i> , 2002 , 44, 652-655	0.8	28
296	Comparative Study on the Electronic Structure of Arc-Discharge and Catalytic Carbon Nanotubes. <i>Journal of Physical Chemistry B</i> , 2001 , 105, 4853-4859	3.4	28
295	Synthesis of nitrogen-containing porous carbon using calcium oxide nanoparticles. <i>Physica Status Solidi (B): Basic Research</i> , 2014 , 251, 2607-2612	1.3	27
294	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
293	Magnetic properties of Fe ₃ C ferromagnetic nanoparticles encapsulated in carbon nanotubes. <i>Physics of the Solid State</i> , 2007 , 49, 734-738	0.8	26
292	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
291	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
290	Growth of CdS nanoparticles on the aligned carbon nanotubes. <i>Physical Chemistry Chemical Physics</i> , 2010 , 12, 10871-5	3.6	25

289	Catalytic synthesis of carbon nanotubes using Ni- and Co-doped calcium tartrates. <i>Carbon</i> , 2009 , 47, 1701-1707	17.07	25
288	Single-Walled Carbon Nanotube Reactor for Redox Transformation of Mercury Dichloride. <i>ACS Nano</i> , 2017 , 11, 8643-8649	16.7	24
287	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	2.6	24
286	Dielectric properties of polystyrene/onion-like carbon composites in frequency range of 0.5-100kHz. <i>Composites Science and Technology</i> , 2010 , 70, 719-724	8.6	24
285	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
284	Wrinkled reduced graphene oxide nanosheets for highly sensitive and easy recoverable NH ₃ gas detector. <i>RSC Advances</i> , 2014 , 4, 46930-46933	3.7	23
283	Iron nanoparticles in aligned arrays of pure and nitrogen-doped carbon nanotubes. <i>Carbon</i> , 2012 , 50, 2628-2634	10.4	23
282	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	1.2	23
281	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	3.5	23
280	Electron spectroscopy of carbon materials: experiment and theory. <i>Journal of Physics: Conference Series</i> , 2006 , 26, 149-152	0.3	23
279	Chlorinated holey double-walled carbon nanotubes for relative humidity sensors. <i>Carbon</i> , 2019 , 148, 413-420	10.4	22
278	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	1.3	22
277	Charge-induced formation of thin conducting layers on fluorinated graphite surface. <i>Carbon</i> , 2015 , 82, 446-458	10.4	21
276	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
275	X-ray Spectroscopic and Quantum-Chemical Characterization of Hydrofullerene C ₆₀ H ₃₆ . <i>Journal of Physical Chemistry A</i> , 1999 , 103, 716-720	2.8	21
274	Encapsulation of molecular nitrogen in multiwall CN _x nanotubes. <i>Physica Status Solidi (B): Basic Research</i> , 2007 , 244, 4078-4081	1.3	20
273	Growth of MoS ₂ layers on the surface of multiwalled carbon nanotubes. <i>Inorganic Materials</i> , 2007 , 43, 236-239	0.9	20
272	Anisotropic properties of carbonaceous material produced in arc discharge. <i>Applied Physics A: Materials Science and Processing</i> , 2001 , 72, 481-486	2.6	20

271	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	1.9	19
270	Transmission of terahertz radiation by anisotropic MWCNT/polystyrene composite films. <i>Physica Status Solidi (B): Basic Research</i> , 2011 , 248, 2568-2571	1.3	19
269	Phosphate ceramics [carbon nanotubes composites:liquid aluminum phosphate vs solid magnesium phosphate binder. <i>Ceramics International</i> , 2015 , 41, 12147-12152	5.1	18
268	MWCNT buckypaper/polypyrrole nanocomposites for supercapasitor application. <i>Electrochimica Acta</i> , 2020 , 335, 135700	6.7	18
267	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	4.4	18
266	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	0.8	18
265	Electronic state of nitrogen incorporated into CNx nanotubes. <i>European Physical Journal D</i> , 2005 , 34, 271-274	1.3	18
264	Orientalional effect of the texture of a carbon-nanotube film on CK α radiation intensity. <i>JETP Letters</i> , 2005 , 81, 34-38	1.2	18
263	Leaky graphene oxide with high quantum yield and dual-wavelength photoluminescence. <i>Carbon</i> , 2016 , 108, 461-470	10.4	17
262	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	1.3	17
261	Magnetic ordering in C60 polymers with partially broken intermolecular bonds. <i>Physical Review B</i> , 2004 , 70,	3.3	17
260	Electronic Structure of the Fluorinated Fullerene C60F48. <i>Journal of Physical Chemistry A</i> , 1999 , 103, 9921-9924	2.8	17
259	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	8.6	16
258	X-ray spectroscopic and quantumchemical study of carbon tubes produced in arc-discharge. <i>Chemical Physics Letters</i> , 1998 , 289, 341-349	2.5	16
257	Thermal Behavior of Fluorinated Double-Walled Carbon Nanotubes. <i>Chemistry of Materials</i> , 2006 , 18, 4967-4971	9.6	16
256	Electronic structure and properties of rhombohedrally polymerized C60. <i>Journal of Chemical Physics</i> , 2001 , 115, 5637-5641	3.9	16
255	Many-body effects in optical response of graphene-based structures. <i>International Journal of Quantum Chemistry</i> , 2016 , 116, 270-281	2.1	16
254	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

253	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
252	Perforation of graphite in boiling mineral acid. <i>Physica Status Solidi (B): Basic Research</i> , 2012 , 249, 2620-2634		15
251	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	1.3	15
250	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	3.9	15
249	NATURE OF CHEMICAL BONDING IN THE FLUORINATED CARBON COMPOUNDS. <i>Reviews in Inorganic Chemistry</i> , 1999 , 19, 79-116	2.4	15
248	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
247	Graphitization of ¹³ C enriched fine-grained graphitic material under high-pressure annealing. <i>Carbon</i> , 2019 , 141, 323-330	10.4	15
246	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
245	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
244	Stability, electronic structure and reactivity of the polymerized fullerite forms. <i>Journal of Physics and Chemistry of Solids</i> , 2000 , 61, 1901-1911	3.9	14
243	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
242	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
241	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
240	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
239	Thermally exfoliated fluorinated graphite for NO ₂ gas sensing. <i>Physica Status Solidi (B): Basic Research</i> , 2016 , 253, 2492-2498	1.3	13
238	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
237	Structure and supercapacitor properties of few-layer low-fluorinated graphene materials. <i>Journal of Materials Science</i> , 2018 , 53, 13053-13066	4.3	13
236	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

235	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	2.1	13
234	Modulation of electronic density in wavy graphite layers. <i>Synthetic Metals</i> , 2010 , 160, 1848-1855	3.6	13
233	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	1.3	13
232	Optical absorption of boron nitride nanomaterials. <i>Physica Status Solidi (B): Basic Research</i> , 2008 , 245, 2107-2110	1.3	13
231	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	1	13
230	Modifications to the electronic structure of carbon nanotubes with symmetric and random vacancies. <i>International Journal of Quantum Chemistry</i> , 2004 , 96, 239-246	2.1	13
229	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
228	Assessing carbon nanotube arrangement in polystyrene matrix by magnetic susceptibility measurements. <i>Carbon</i> , 2016 , 96, 1077-1083	10.4	12
227	Energy shift of collective electron excitations in highly corrugated graphitic nanostructures: Experimental and theoretical investigation. <i>Applied Physics Letters</i> , 2014 , 104, 161905	3.4	12
226	Investigation of the Electronic Structure of C ₆₀ F ₂₄ . <i>Journal of Physical Chemistry A</i> , 1997 , 101, 10018-10028	2.8	12
225	Electronic Structure and Field-Emission Properties of Nitrogen-Doped Carbon Nanotubes. <i>Fullerenes Nanotubes and Carbon Nanostructures</i> , 2006 , 14, 151-164	1.8	12
224	Magnetic anisotropy in the films of oriented carbon nanotubes filled with iron nanoparticles. <i>Technical Physics Letters</i> , 2005 , 31, 454-456	0.7	12
223	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
222	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
221	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
220	Electronic Structure of Nitrogen- and Phosphorus-Doped Graphenes Grown by Chemical Vapor Deposition Method. <i>Materials</i> , 2020 , 13,	3.5	11
219	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
218	Structural Evolution and Magnetic Properties of Underfluorinated C ₂ F. <i>Journal of Superconductivity and Novel Magnetism</i> , 2012 , 25, 79-83	1.5	11

217	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
216	Chlorination of perforated graphite via interaction with thionylchloride. <i>Physica Status Solidi (B): Basic Research</i> , 2014 , 251, 2613-2619	1.3	11
215	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	1.8	11
214	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	0.8	11
213	Transport and magnetic properties of multiwall carbon nanotubes before and after bromination. <i>Physics of the Solid State</i> , 2002 , 44, 659-662	0.8	11
212	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
211	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
210	Memristive model of hysteretic field emission from carbon nanotube arrays. <i>Journal of Nanophotonics</i> , 2016 , 10, 012524	1.1	10
209	Charge polarization in partially lithiated single-walled carbon nanotubes. <i>Physical Chemistry Chemical Physics</i> , 2018 , 20, 22592-22599	3.6	10
208	Tabby graphene: Dimensional magnetic crossover in fluorinated graphite. <i>Scientific Reports</i> , 2017 , 7, 16544	4.9	10
207	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
206	Anisotropic Permittivity of Multi-Walled Carbon Nanotube/Polystyrene Composites. <i>Fullerenes Nanotubes and Carbon Nanostructures</i> , 2012 , 20, 523-526	1.8	10
205	Layered compounds based on perforated graphene. <i>Journal of Structural Chemistry</i> , 2011 , 52, 903-909	0.9	10
204	A comparative study of argon ion irradiated pristine and fluorinated single-wall carbon nanotubes. <i>Journal of Chemical Physics</i> , 2010 , 133, 224706	3.9	10
203	Surface electronic structure of detonation nanodiamonds after oxidative treatment. <i>Diamond and Related Materials</i> , 2007 , 16, 2090-2092	3.5	10
202	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	1	10
201	Electronic structure and arrangement of purified HiPco carbon nanotubes. <i>Carbon</i> , 2004 , 42, 1095-1098	10.4	10
200	Electronic structure of the complexes of fullerene C ₆₀ with polyaromatic molecules. <i>Journal of Molecular Structure</i> , 2003 , 648, 183-189	3.4	10

199	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	3.4	10
198	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	3.4	10
197	Hydrothermal Activation of Porous Nitrogen-Doped Carbon Materials for Electrochemical Capacitors and Sodium-Ion Batteries. <i>Nanomaterials</i> , 2020 , 10,	5.4	10
196	RNA-modified carbon nanotube arrays recognizing RNA via electrochemical capacitance response. <i>Materials and Design</i> , 2016 , 100, 67-72	8.1	10
195	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
194	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
193	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
192	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
191	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
190	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
189	Low-frequency (10 ⁸ kHz) impedance of polystyrene-onion-like-carbon composites. <i>Technical Physics Letters</i> , 2009 , 35, 85-88	0.7	9
188	Curvature-Induced Optical Transitions in Graphene. <i>Fullerenes Nanotubes and Carbon Nanostructures</i> , 2012 , 20, 558-562	1.8	9
187	Charge Transfer in Fullerene Films. <i>Fullerenes, Nanotubes, and Carbon Nanostructures</i> , 1998 , 6, 433-443		9
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