

Humberto Terrones

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.

218
papers

26,844
citations

80
h-index

162
g-index

229
ext. papers

29,428
ext. citations

9
avg, IF

6.62
L-index

#	Paper	IF	Citations
218	Importance of Multiple Excitation Wavelengths for TERS Characterization of TMDCs and Their Vertical Heterostructures. <i>Journal of Physical Chemistry C</i> , 2022 , 126, 5218-5223	3.8	2
217	Evidence of itinerant holes for long-range magnetic order in the tungsten diselenide semiconductor with vanadium dopants. <i>Physical Review B</i> , 2021 , 103,	3.3	6
216	Voltage-Dependent Barrier Height of Electron Transport through Iron Porphyrin Molecular Junctions. <i>Journal of Physical Chemistry C</i> , 2021 , 125, 7350-7357	3.8	1
215	Bandgap Tuning in BaZrS ₃ Perovskite Thin Films. <i>ACS Applied Electronic Materials</i> , 2021 , 3, 3306-3312	4	4
214	Universal Substitutional Doping of Transition Metal Dichalcogenides by Liquid-Phase Precursor-Assisted Synthesis. <i>ACS Nano</i> , 2020 , 14, 4326-4335	16.7	44
213	Strain dependence of second harmonic generation in transition metal dichalcogenide monolayers and the fine structure of the C exciton. <i>Physical Review B</i> , 2020 , 101,	3.3	10
212	Second harmonic generation in two-dimensional transition metal dichalcogenides with growth and post-synthesis defects. <i>2D Materials</i> , 2020 , 7, 045020	5.9	6
211	Single-atom doping of MoS with manganese enables ultrasensitive detection of dopamine: Experimental and computational approach. <i>Science Advances</i> , 2020 , 6, eabc4250	14.3	57
210	Carrier lifetime enhancement in halide perovskite via remote epitaxy. <i>Nature Communications</i> , 2019 , 10, 4145	17.4	45
209	Large Metallic Vanadium Disulfide Ultrathin Flakes for Spintronic Circuits and Quantum Computing Devices. <i>ACS Applied Nano Materials</i> , 2019 , 2, 3684-3694	5.6	5
208	Raman and electrical transport properties of few-layered arsenic-doped black phosphorus. <i>Nanoscale</i> , 2019 , 11, 18449-18463	7.7	17
207	Excitonic Complexes and Emerging Interlayer Electron-Phonon Coupling in BN Encapsulated Monolayer Semiconductor Alloy: WSe. <i>Nano Letters</i> , 2019 , 19, 299-307	11.5	14
206	Resonant Raman and Exciton Coupling in High-Quality Single Crystals of Atomically Thin Molybdenum Diselenide Grown by Vapor-Phase Chalcogenization. <i>ACS Nano</i> , 2018 , 12, 740-750	16.7	22
205	Large second harmonic generation in alloyed TMDs and boron nitride nanostructures. <i>Scientific Reports</i> , 2018 , 8, 10118	4.9	33
204	Phase Modulators Based on High Mobility Ambipolar ReSe Field-Effect Transistors. <i>Scientific Reports</i> , 2018 , 8, 12745	4.9	13
203	Electronic and optical properties of strained graphene and other strained 2D materials: a review. <i>Reports on Progress in Physics</i> , 2017 , 80, 096501	14.4	252
202	Ultrafast structural evolution and formation of linear carbon chains in single-walled carbon nanotube networks by femtosecond laser irradiation. <i>Nanoscale</i> , 2017 , 9, 16627-16631	7.7	6

201	BNC nanoshells: a novel structure for atomic storage. <i>Nanotechnology</i> , 2017 , 28, 465201	3.4	3
200	Temperature- and power-dependent phonon properties of suspended continuous WS ₂ monolayer films. <i>Vibrational Spectroscopy</i> , 2016 , 86, 270-276	2.1	11
199	Defect engineering of two-dimensional transition metal dichalcogenides. <i>2D Materials</i> , 2016 , 3, 022002	5.9	538
198	Third order nonlinear optical response exhibited by mono- and few-layers of WS ₂ . <i>2D Materials</i> , 2016 , 3, 021005	5.9	35
197	Atypical Exciton-Phonon Interactions in WS ₂ and WSe ₂ Monolayers Revealed by Resonance Raman Spectroscopy. <i>Nano Letters</i> , 2016 , 16, 2363-8	11.5	91
196	Electron transport study on functionalized armchair graphene nanoribbons: DFT calculations. <i>RSC Advances</i> , 2016 , 6, 21954-21960	3.7	22
195	Mechanical properties of hypothetical graphene foams: Giant Schwarzites. <i>Carbon</i> , 2016 , 96, 1191-1199	10.4	32
194	Temperature Dependence of Sensors Based on Silver-Decorated Nitrogen-Doped Multiwalled Carbon Nanotubes. <i>Journal of Sensors</i> , 2016 , 2016, 1-10	2	6
193	Transport properties through hexagonal boron nitride clusters embedded in graphene nanoribbons. <i>Nanotechnology</i> , 2016 , 27, 185203	3.4	5
192	Electric-Field-Assisted Directed Assembly of Transition Metal Dichalcogenide Monolayer Sheets. <i>ACS Nano</i> , 2016 , 10, 5006-14	16.7	7
191	Fullerene and nanotube growth: new insights using first principles and molecular dynamics. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2016 , 374,	3	5
190	Three-dimensionally bonded spongy graphene material with super compressive elasticity and near-zero Poisson's ratio. <i>Nature Communications</i> , 2015 , 6, 6141	17.4	389
189	Defect-induced photoluminescence in monolayer semiconducting transition metal dichalcogenides. <i>ACS Nano</i> , 2015 , 9, 1520-7	16.7	295
188	Biotin molecules on nitrogen-doped carbon nanotubes enhance the uniform anchoring and formation of Ag nanoparticles. <i>Carbon</i> , 2015 , 88, 51-59	10.4	9
187	Extrapolating Dynamic Leidenfrost Principles to Metallic Nanodroplets on Asymmetrically Textured Surfaces. <i>Scientific Reports</i> , 2015 , 5, 11769	4.9	5
186	Stable and solid pellets of functionalized multi-walled carbon nanotubes produced under high pressure and temperature. <i>Journal of Nanoparticle Research</i> , 2015 , 17, 1	2.3	3
185	Beyond Graphene: Progress in Novel Two-Dimensional Materials and van der Waals Solids. <i>Annual Review of Materials Research</i> , 2015 , 45, 1-27	12.8	430
184	Strain and the optoelectronic properties of nonplanar phosphorene monolayers. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015 , 112, 5888-92	11.5	44

183	Multivalency-Induced Band Gap Opening at MoS ₂ Edges. <i>Chemistry of Materials</i> , 2015 , 27, 3326-3331	9.6	39
182	Tellurium-Assisted Low-Temperature Synthesis of MoS ₂ and WS ₂ Monolayers. <i>ACS Nano</i> , 2015 , 9, 11658-1667	16.7	107
181	Recent Advances in Two-Dimensional Materials beyond Graphene. <i>ACS Nano</i> , 2015 , 9, 11509-39	16.7	1581
180	Two-dimensional transition metal dichalcogenides: Clusters, ribbons, sheets and more. <i>Nano Today</i> , 2015 , 10, 559-592	17.9	84
179	Metal to Insulator Quantum-Phase Transition in Few-Layered ReS ₂ . <i>Nano Letters</i> , 2015 , 15, 8377-84	11.5	82
178	Beryllium doping graphene, graphene-nanoribbons, C ₆₀ -fullerene, and carbon nanotubes. <i>Carbon</i> , 2015 , 84, 317-326	10.4	18
177	3D Nanocomposites of Covalently Interconnected Multiwalled Carbon Nanotubes with SiC with Enhanced Thermal and Electrical Properties. <i>Advanced Functional Materials</i> , 2015 , 25, 4985-4993	15.6	14
176	Covalent Networks: 3D Nanocomposites of Covalently Interconnected Multiwalled Carbon Nanotubes with SiC with Enhanced Thermal and Electrical Properties (Adv. Funct. Mater. 31/2015). <i>Advanced Functional Materials</i> , 2015 , 25, 4922-4922	15.6	2
175	Differential Response of Doped/Defective Graphene and Dopamine to Electric Fields: A Density Functional Theory Study. <i>Journal of Physical Chemistry C</i> , 2015 , 119, 13972-13978	3.8	32
174	Electronic, magnetic, optical, and edge-reactivity properties of semiconducting and metallic WS ₂ nanoribbons. <i>2D Materials</i> , 2015 , 2, 015002	5.9	17
173	Self-Assembly Synthesis of Decorated Nitrogen-Doped Carbon Nanotubes with ZnO Nanoparticles: Anchoring Mechanism and the Effects of Sulfur. <i>Journal of Physical Chemistry C</i> , 2015 , 119, 741-747	3.8	9
172	Quantitative chemistry and the discrete geometry of conformal atom-thin crystals. <i>ACS Nano</i> , 2014 , 8, 1136-46	16.7	24
171	Porous Materials: Controlling the Optical, Electrical and Chemical Properties of Carbon Inverse Opal by Nitrogen Doping (Adv. Funct. Mater. 18/2014). <i>Advanced Functional Materials</i> , 2014 , 24, 2611-2611	15.6	1
170	Band gap engineering and layer-by-layer mapping of selenium-doped molybdenum disulfide. <i>Nano Letters</i> , 2014 , 14, 442-9	11.5	378
169	Large-area Si-doped graphene: controllable synthesis and enhanced molecular sensing. <i>Advanced Materials</i> , 2014 , 26, 7593-9	24	91
168	Bilayers of transition metal dichalcogenides: Different stackings and heterostructures. <i>Journal of Materials Research</i> , 2014 , 29, 373-382	2.5	33
167	Theoretical Predictions of Freestanding Honeycomb Sheets of Cadmium Chalcogenides. <i>Journal of Physical Chemistry C</i> , 2014 , 118, 16236-16245	3.8	33
166	Spectroscopic signatures for interlayer coupling in MoS ₂ -WSe ₂ van der Waals stacking. <i>ACS Nano</i> , 2014 , 8, 9649-56	16.7	233

165	Vertical and in-plane heterostructures from WS ₂ /MoS ₂ monolayers. <i>Nature Materials</i> , 2014 , 13, 1135-4227		1580
164	Probing the interlayer coupling of twisted bilayer MoS ₂ using photoluminescence spectroscopy. <i>Nano Letters</i> , 2014 , 14, 5500-8	11.5	168
163	Excited excitonic states in 1L, 2L, 3L, and bulk WSe ₂ observed by resonant Raman spectroscopy. <i>ACS Nano</i> , 2014 , 8, 9629-35	16.7	154
162	Pressure-Induced Selectivity for Probing Inner Tubes in Double- and Triple-Walled Carbon Nanotubes: A Resonance Raman Study. <i>Journal of Physical Chemistry C</i> , 2014 , 118, 8153-8158	3.8	26
161	Synthesis, Characterization and Magnetic Properties of Defective Nitrogen-Doped Multiwall Carbon Nanotubes Encapsulating Ferromagnetic Nanoparticles. <i>Journal of Nano Research</i> , 2014 , 28, 39-49	1	2
160	Field-effect transistors based on few-layered HMoTe ₂ . <i>ACS Nano</i> , 2014 , 8, 5911-20	16.7	281
159	CVD-grown monolayered MoS ₂ as an effective photosensor operating at low-voltage. <i>2D Materials</i> , 2014 , 1, 011004	5.9	170
158	Graphene: Large-Area Si-Doped Graphene: Controllable Synthesis and Enhanced Molecular Sensing (Adv. Mater. 45/2014). <i>Advanced Materials</i> , 2014 , 26, 7676-7676	24	
157	Three-dimensional massless Dirac fermions in carbon schwarzites. <i>Physical Review B</i> , 2014 , 90,	3.3	27
156	Controlling the Optical, Electrical and Chemical Properties of Carbon Inverse Opal by Nitrogen Doping. <i>Advanced Functional Materials</i> , 2014 , 24, 2612-2619	15.6	20
155	Facile synthesis of MoS ₂ and Mo _x W _{1-x} S ₂ triangular monolayers. <i>APL Materials</i> , 2014 , 2, 092514	5.7	75
154	Three-dimensional Nanotube Networks and a New Horizon of Applications 2014 , 457-493		2
153	Nanoribbons: Nitrogen-Doped Graphitic Nanoribbons: Synthesis, Characterization, and Transport (Adv. Funct. Mater. 30/2013). <i>Advanced Functional Materials</i> , 2013 , 23, 3714-3714	15.6	
152	Nitrogen-Doped Graphitic Nanoribbons: Synthesis, Characterization, and Transport. <i>Advanced Functional Materials</i> , 2013 , 23, 3755-3762	15.6	28
151	Doped Graphene: Theory, Synthesis, Characterization, and Applications 2013 , 183-207		4
150	Spin Transport of Polyacetylene Chains Bridging Zigzag Graphene Nanoribbon Electrodes: A Nonequilibrium Treatment of Structural Control and Spin Filtering. <i>Journal of Physical Chemistry C</i> , 2013 , 117, 21178-21185	3.8	15
149	Structures, Energetics, and Electronic Properties of Layered Materials and Nanotubes of Cadmium Chalcogenides. <i>Journal of Physical Chemistry C</i> , 2013 , 117, 25817-25825	3.8	19
148	Extraordinary room-temperature photoluminescence in triangular WS ₂ monolayers. <i>Nano Letters</i> , 2013 , 13, 3447-54	11.5	1145

147	Iron Particle Nanodrilling of Few Layer Graphene at Low Electron Beam Accelerating Voltages. <i>Particle and Particle Systems Characterization</i> , 2013 , 30, 76-82	3.1	8
146	Nanodrilling: Iron Particle Nanodrilling of Few Layer Graphene at Low Electron Beam Accelerating Voltages (Part. Part. Syst. Charact. 1/2013). <i>Particle and Particle Systems Characterization</i> , 2013 , 30, 75-75 ³⁻¹		
145	NitrogenSilicon Heterodoping of Carbon Nanotubes. <i>Journal of Physical Chemistry C</i> , 2013 , 117, 8481-8490	19	
144	Photosensor Device Based on Few-Layered WS ₂ Films. <i>Advanced Functional Materials</i> , 2013 , 23, 5511-5517	3.6	480
143	Edge-edge interactions in stacked graphene nanoplatelets. <i>ACS Nano</i> , 2013 , 7, 2834-41	16.7	25
142	Novel hetero-layered materials with tunable direct band gaps by sandwiching different metal disulfides and diselenides. <i>Scientific Reports</i> , 2013 , 3, 1549	4.9	378
141	Identification of individual and few layers of WS ₂ using Raman Spectroscopy. <i>Scientific Reports</i> , 2013 , 3,	4.9	911
140	Controlled synthesis and transfer of large-area WS ₂ sheets: from single layer to few layers. <i>ACS Nano</i> , 2013 , 7, 5235-42	16.7	453
139	Sensors: Photosensor Device Based on Few-Layered WS ₂ Films (Adv. Funct. Mater. 44/2013). <i>Advanced Functional Materials</i> , 2013 , 23, 5510-5510	15.6	5
138	Fullerenes and Beyond: Complexity, Morphology, and Functionality in Closed Carbon Nanostructures 2013 , 83-104		1
137	Electronic control over attachment and self-assembly of alkyne groups on gold. <i>ACS Nano</i> , 2012 , 6, 9267-9277	16.7	24
136	The role of defects and doping in 2D graphene sheets and 1D nanoribbons. <i>Reports on Progress in Physics</i> , 2012 , 75, 062501	14.4	383
135	Structure and Electronic Properties of Edge-Functionalized Armchair Boron Nitride Nanoribbons. <i>Journal of Physical Chemistry C</i> , 2012 , 116, 15675-15681	3.8	34
134	Nitrogen-doped graphene: beyond single substitution and enhanced molecular sensing. <i>Scientific Reports</i> , 2012 , 2, 586	4.9	517
133	Novel Nanocarbons for Adsorption 2012 , 3-34		11
132	Covalently bonded three-dimensional carbon nanotube solids via boron induced nanojunctions. <i>Scientific Reports</i> , 2012 , 2, 363	4.9	300
131	Beyond carbon nanopeapods. <i>ChemPhysChem</i> , 2012 , 13, 2273-6	3.2	6
130	Analysis of the molecular structure of human enamel with fluorosis using micro-Raman spectroscopy. <i>Journal of Oral Science</i> , 2012 , 54, 93-8	1.5	12

129	Millimeter-long carbon nanotubes: outstanding electron-emitting sources. <i>ACS Nano</i> , 2011 , 5, 5072-7	16.7	44
128	Transparent Foamlike 2D Networks of Nitrogen-Doped Multiwalled Carbon Nanotubes Obtained by Self-Assembly. <i>Journal of Physical Chemistry C</i> , 2011 , 115, 11447-11452	3.8	1
127	Quantum transport in graphene nanonetworks. <i>Nano Letters</i> , 2011 , 11, 3058-64	11.5	55
126	Controlling the velocity of jumping nanodroplets via their initial shape and temperature. <i>ACS Nano</i> , 2011 , 5, 7130-6	16.7	25
125	Hydroxyl-functionalized and N-doped multiwalled carbon nanotubes decorated with silver nanoparticles preserve cellular function. <i>ACS Nano</i> , 2011 , 5, 2458-66	16.7	63
124	Phosphorus and phosphorus-nitrogen doped carbon nanotubes for ultrasensitive and selective molecular detection. <i>Nanoscale</i> , 2011 , 3, 1008-13	7.7	74
123	One-dimensional extended lines of divacancy defects in graphene. <i>Nanoscale</i> , 2011 , 3, 2868-72	7.7	82
122	Molecular dynamics study of the dewetting of copper on graphite and graphene: implications for nanoscale self-assembly. <i>Physical Review E</i> , 2011 , 83, 041603	2.4	57
121	Boron nitride nanoribbons become metallic. <i>Nano Letters</i> , 2011 , 11, 3267-73	11.5	105
120	Doping (10, 0)-Semiconductor Nanotubes with Nitrogen and Vacancy Defects. <i>Materials Express</i> , 2011 , 1, 127-135	1.3	18
119	Longitudinal cutting of pure and doped carbon nanotubes to form graphitic nanoribbons using metal clusters as nanoscalpels. <i>Nano Letters</i> , 2010 , 10, 366-72	11.5	284
118	Chemical vapor deposition synthesis of N-, P-, and Si-doped single-walled carbon nanotubes. <i>ACS Nano</i> , 2010 , 4, 1696-702	16.7	101
117	Observation of magnetic edge state in graphene nanoribbons. <i>Physical Review B</i> , 2010 , 81,	3.3	120
116	Spectroscopic characterization of N-doped single-walled carbon nanotube strands: an X-ray photoelectron spectroscopy and Raman study. <i>Journal of Nanoscience and Nanotechnology</i> , 2010 , 10, 3959-64	1.3	30
115	Controlling high coercivities of ferromagnetic nanowires encapsulated in carbon nanotubes. <i>Journal of Materials Chemistry</i> , 2010 , 20, 5906		54
114	Effect of impurities on the electronic and magnetic properties of zinc oxide nanostructures. <i>Chemical Physics Letters</i> , 2010 , 492, 82-88	2.5	18
113	The Formation of ReS ₂ Inorganic Fullerene-Like Structures Containing Re ₄ Parallelogram Units and Metal-Metal Bonds.. <i>ChemInform</i> , 2010 , 33, no-no		1
112	Graphene and graphite nanoribbons: Morphology, properties, synthesis, defects and applications. <i>Nano Today</i> , 2010 , 5, 351-372	17.9	695

111	The Role of Sulfur in the Synthesis of Novel Carbon Morphologies: From Covalent Y-Junctions to Sea-Urchin-Like Structures. <i>Advanced Functional Materials</i> , 2009 , 19, 1193-1199	15.6	44
110	Acid modified bamboo-type carbon nanotubes and cup-stacked-type carbon nanofibres as adsorbent materials: cadmium removal from aqueous solution. <i>Journal of Chemical Technology and Biotechnology</i> , 2009 , 84, 519-524	3.5	35
109	A theoretical and experimental study on manipulating the structure and properties of carbon nanotubes using substitutional dopants. <i>International Journal of Quantum Chemistry</i> , 2009 , 109, 97-118	2.1	64
108	Thermal stability studies of CVD-grown graphene nanoribbons: Defect annealing and loop formation. <i>Chemical Physics Letters</i> , 2009 , 469, 177-182	2.5	147
107	Metallic and ferromagnetic edges in molybdenum disulfide nanoribbons. <i>Nanotechnology</i> , 2009 , 20, 3257-3263	3.0	164
106	Properties of one-dimensional molybdenum nanowires in a confined environment. <i>Nano Letters</i> , 2009 , 9, 1487-92	11.5	37
105	Effects of 45-nm silver nanoparticles on coronary endothelial cells and isolated rat aortic rings. <i>Toxicology Letters</i> , 2009 , 191, 305-13	4.4	99
104	Synthesis, electronic structure, and Raman scattering of phosphorus-doped single-wall carbon nanotubes. <i>Nano Letters</i> , 2009 , 9, 2267-72	11.5	121
103	Spin polarized conductance in hybrid graphene nanoribbons using 5-7 defects. <i>ACS Nano</i> , 2009 , 3, 3606-16.7	16.7	52
102	Heterojunctions between metals and carbon nanotubes as ultimate nanocontacts. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009 , 106, 4591-5	11.5	100
101	Electronic transport and mechanical properties of phosphorus- and phosphorus-nitrogen-doped carbon nanotubes. <i>ACS Nano</i> , 2009 , 3, 1913-21	16.7	191
100	Electron and phonon renormalization near charged defects in carbon nanotubes. <i>Nature Materials</i> , 2008 , 7, 878-83	27	236
99	Bulk production of a new form of sp(2) carbon: crystalline graphene nanoribbons. <i>Nano Letters</i> , 2008 , 8, 2773-8	11.5	524
98	Magnetic properties of individual carbon clusters, clusters inside fullerenes and graphitic nanoribbons. <i>Journal of Materials Chemistry</i> , 2008 , 18, 1535		11
97	Magnetic behavior in zinc oxide zigzag nanoribbons. <i>Nano Letters</i> , 2008 , 8, 1562-5	11.5	138
96	Guiding electrical current in nanotube circuits using structural defects: a step forward in nanoelectronics. <i>ACS Nano</i> , 2008 , 2, 2585-91	16.7	48
95	Soft purification of N-doped and undoped multi-wall carbon nanotubes. <i>Nanotechnology</i> , 2008 , 19, 15570-1	9.4	6
94	Production and detailed characterization of bean husk-based carbon: efficient cadmium (II) removal from aqueous solutions. <i>Water Research</i> , 2008 , 42, 3473-9	12.5	15

93	Electron transport properties of ordered networks using carbon nanotubes. <i>Nanotechnology</i> , 2008 , 19, 315704	3.4	23
92	Enhanced ferromagnetism in ZnO nanoribbons and clusters passivated with sulfur. <i>Nano Research</i> , 2008 , 1, 420-426	10	32
91	The two peaks G? band in carbon nanotubes. <i>Physica Status Solidi (B): Basic Research</i> , 2008 , 245, 2197-2200	20	23
90	An atomistic branching mechanism for carbon nanotubes: sulfur as the triggering agent. <i>Angewandte Chemie - International Edition</i> , 2008 , 47, 2948-53	16.4	69
89	Controlling the dimensions, reactivity and crystallinity of multiwalled carbon nanotubes using low ethanol concentrations. <i>Chemical Physics Letters</i> , 2008 , 453, 55-61	2.5	64
88	Heterodoped nanotubes: theory, synthesis, and characterization of phosphorus-nitrogen doped multiwalled carbon nanotubes. <i>ACS Nano</i> , 2008 , 2, 441-8	16.7	165
87	Metallic edges in zinc oxide nanoribbons. <i>Chemical Physics Letters</i> , 2007 , 448, 258-263	2.5	48
86	Anomalous paramagnetism in doped carbon nanostructures. <i>Small</i> , 2007 , 3, 120-5	11	12
85	Architectures from aligned nanotubes using controlled micropatterning of silicon substrates and electrochemical methods. <i>Small</i> , 2007 , 3, 1157-63	11	10
84	Synthesis of SWCNT rings made by two Y junctions and possible applications in electron interferometry. <i>Small</i> , 2007 , 3, 1900-5	11	15
83	Viability studies of pure carbon- and nitrogen-doped nanotubes with <i>Entamoeba histolytica</i> : from amoebicidal to biocompatible structures. <i>Small</i> , 2007 , 3, 1723-9	11	53
82	In situ nucleation of carbon nanotubes by the injection of carbon atoms into metal particles. <i>Nature Nanotechnology</i> , 2007 , 2, 307-11	28.7	195
81	Covalent 2D and 3D networks from 1D nanostructures: designing new materials. <i>Nano Letters</i> , 2007 , 7, 570-6	11.5	191
80	Hydrogen storage in nanoporous carbon materials: myth and facts. <i>Physical Chemistry Chemical Physics</i> , 2007 , 9, 1786-92	3.6	124
79	Nitrogen-mediated carbon nanotube growth: diameter reduction, metallicity, bundle dispersability, and bamboo-like structure formation. <i>ACS Nano</i> , 2007 , 1, 369-75	16.7	185
78	Determination of chiralities of single-walled carbon nanotubes by neutron powder diffraction technique. <i>Diamond and Related Materials</i> , 2007 , 16, 473-476	3.5	6
77	Biocompatibility and toxicological studies of carbon nanotubes doped with nitrogen. <i>Nano Letters</i> , 2006 , 6, 1609-16	11.5	305
76	Efficient anchoring of silver nanoparticles on N-doped carbon nanotubes. <i>Small</i> , 2006 , 2, 346-50	11	138

75	Synthesis and characterization of long strands of nitrogen-doped single-walled carbon nanotubes. <i>Chemical Physics Letters</i> , 2006 , 424, 345-352	2.5	173
74	Decorating carbon nanotubes with nanostructured nickel particles via chemical methods. <i>Chemical Physics Letters</i> , 2006 , 431, 104-109	2.5	37
73	Magnetic response in finite carbon graphene sheets and nanotubes. <i>Optical Materials</i> , 2006 , 29, 110-115	3.3	19
72	Femtosecond laser nanosurgery of defects in carbon nanotubes. <i>Nano Letters</i> , 2005 , 5, 1361-5	11.5	27
71	Hydrogen storage in spherical nanoporous carbons. <i>Chemical Physics Letters</i> , 2005 , 403, 363-366	2.5	58
70	Synthesis and electronic properties of coalesced graphitic nanocones. <i>Chemical Physics Letters</i> , 2005 , 407, 327-332	2.5	12
69	Synthesis and state of art characterization of BN bamboo-like nanotubes: Evidence of a root growth mechanism catalyzed by Fe. <i>Chemical Physics Letters</i> , 2005 , 416, 342-348	2.5	38
68	Atomic nanotube welders: boron interstitials triggering connections in double-walled carbon nanotubes. <i>Nano Letters</i> , 2005 , 5, 1099-105	11.5	70
67	Zipper mechanism of nanotube fusion: theory and experiment. <i>Physical Review Letters</i> , 2004 , 92, 075504	7.4	75
66	Fabrication of vapor and gas sensors using films of aligned CN _x nanotubes. <i>Chemical Physics Letters</i> , 2004 , 386, 137-143	2.5	159
65	Direct observation of the structure of gold nanoparticles by total scattering powder neutron diffraction. <i>Chemical Physics Letters</i> , 2004 , 393, 385-388	2.5	79
64	Efficient encapsulation of gaseous nitrogen inside carbon nanotubes with bamboo-like structure using aerosol thermolysis. <i>Chemical Physics Letters</i> , 2004 , 396, 167-173	2.5	72
63	How to Identify Haeckelite Structures: A Theoretical Study of Their Electronic and Vibrational Properties. <i>Nano Letters</i> , 2004 , 4, 805-810	11.5	56
62	Shape and complexity at the atomic scale: the case of layered nanomaterials. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2004 , 362, 2039-63	3	15
61	Coalescence of Double-Walled Carbon Nanotubes: Formation of Novel Carbon Bicables. <i>Nano Letters</i> , 2004 , 4, 1451-1454	11.5	64
60	Philosophical transactions. Introduction. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2004 , 362, 2035-7	3	
59	Curved nanostructured materials. <i>New Journal of Physics</i> , 2003 , 5, 126-126	2.9	140
58	Structure, transport and field-emission properties of compound nanotubes: CN _x vs. BNC _x (x). <i>Applied Physics A: Materials Science and Processing</i> , 2003 , 76, 499-507	2.6	82

57	Production and State-of-the-Art Characterization of Aligned Nanotubes with Homogeneous BCxN (1 & B) Compositions. <i>Advanced Materials</i> , 2003 , 15, 1899-1903	24	53
56	Electronic properties of giant fullerenes and complex graphitic nanostructures with novel morphologies. <i>Chemical Physics Letters</i> , 2003 , 381, 683-690	2.5	16
55	Microstructural changes induced in stacked cupl carbon nanofibers by heat treatment. <i>Carbon</i> , 2003 , 41, 1941-1947	10.4	159
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