

# Humberto Terrones

## List of Publications by Year in descending order

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222  
papers

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citing authors

#	ARTICLE	IF	CITATIONS
1	Importance of Multiple Excitation Wavelengths for TERS Characterization of TMDCs and Their Vertical Heterostructures. Journal of Physical Chemistry C, 2022, 126, 5218-5223.	3.1	4
2	Catalyst-free synthesis of sub-5 nm silicon nanowire arrays with massive lattice contraction and wide bandgap. Nature Communications, 2022, 13, .	12.8	13
3	Evidence of itinerant holes for long-range magnetic order in the tungsten diselenide semiconductor with vanadium dopants. Physical Review B, 2021, 103, .	3.2	16
4	Voltage-Dependent Barrier Height of Electron Transport through Iron Porphyrin Molecular Junctions. Journal of Physical Chemistry C, 2021, 125, 7350-7357.	3.1	1
5	Bandgap Tuning in BaZrS <sub>3</sub> Perovskite Thin Films. ACS Applied Electronic Materials, 2021, 3, 3306-3312.	4.3	31
6	Second harmonic generation in two-dimensional transition metal dichalcogenides with growth and post-synthesis defects. 2D Materials, 2020, 7, 045020.	4.4	10
7	Single-atom doping of MoS <sub>2</sub> with manganese enables ultrasensitive detection of dopamine: Experimental and computational approach. Science Advances, 2020, 6, eabc4250.	10.3	136
8	Selective Synthesis of Bi <sub>2</sub> Te <sub>3</sub> /WS <sub>2</sub> Heterostructures with Strong Interlayer Coupling. ACS Applied Materials & Interfaces, 2020, , .	8.0	2
9	Universal <i>In Situ</i> Substitutional Doping of Transition Metal Dichalcogenides by Liquid-Phase Precursor-Assisted Synthesis. ACS Nano, 2020, 14, 4326-4335.	14.6	100
10	Strain dependence of second harmonic generation in transition metal dichalcogenide monolayers and the fine structure of the $\text{C}$ exciton. Physical Review B, 2020, 101, .	3.2	18
11	Carrier lifetime enhancement in halide perovskite via remote epitaxy. Nature Communications, 2019, 10, 4145.	12.8	93
12	Large Metallic Vanadium Disulfide Ultrathin Flakes for Spintronic Circuits and Quantum Computing Devices. ACS Applied Nano Materials, 2019, 2, 3684-3694.	5.0	14
13	Raman and electrical transport properties of few-layered arsenic-doped black phosphorus. Nanoscale, 2019, 11, 18449-18463.	5.6	27
14	Excitonic Complexes and Emerging Interlayer Electron-Phonon Coupling in BN Encapsulated Monolayer Semiconductor Alloy: WS <sub>0.6</sub> Se <sub>1.4</sub> . Nano Letters, 2019, 19, 299-307.	9.1	20
15	Resonant Raman and Exciton Coupling in High-Quality Single Crystals of Atomically Thin Molybdenum Diselenide Grown by Vapor-Phase Chalcogenization. ACS Nano, 2018, 12, 740-750.	14.6	34
16	Phase Modulators Based on High Mobility Ambipolar ReSe <sub>2</sub> Field-Effect Transistors. Scientific Reports, 2018, 8, 12745.	3.3	19
17	Large second harmonic generation in alloyed TMDs and boron nitride nanostructures. Scientific Reports, 2018, 8, 10118.	3.3	45
18	Electronic and optical properties of strained graphene and other strained 2D materials: a review. Reports on Progress in Physics, 2017, 80, 096501.	20.1	383

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19	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.	5.6	10
20	BNC nanoshells: a novel structure for atomic storage. <i>Nanotechnology</i> , 2017, 28, 465201.	2.6	3
21	Temperature Dependence of Sensors Based on Silver-Decorated Nitrogen-Doped Multiwalled Carbon Nanotubes. <i>Journal of Sensors</i> , 2016, 2016, 1-10.	1.1	9
22	Transport properties through hexagonal boron nitride clusters embedded in graphene nanoribbons. <i>Nanotechnology</i> , 2016, 27, 185203.	2.6	7
23	Electric-Field-Assisted Directed Assembly of Transition Metal Dichalcogenide Monolayer Sheets. <i>ACS Nano</i> , 2016, 10, 5006-5014.	14.6	9
24	Harold Walter Kroto: A carbon scientist, humanist, spectroscopist, graphic designer, tennis player and friend (1939–2016). <i>Carbon</i> , 2016, 108, 103-105.	10.3	0
25	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, 20150327.	3.4	7
26	Temperature- and power-dependent phonon properties of suspended continuous WS <sub>2</sub> monolayer films. <i>Vibrational Spectroscopy</i> , 2016, 86, 270-276.	2.2	15
27	Defect engineering of two-dimensional transition metal dichalcogenides. <i>2D Materials</i> , 2016, 3, 022002.	4.4	736
28	Third order nonlinear optical response exhibited by mono- and few-layers of WS <sub>2</sub> . <i>2D Materials</i> , 2016, 3, 021005.	4.4	46
29	Atypical Exciton–Phonon Interactions in WS <sub>2</sub> and WSe <sub>2</sub> Monolayers Revealed by Resonance Raman Spectroscopy. <i>Nano Letters</i> , 2016, 16, 2363-2368.	9.1	118
30	Electron transport study on functionalized armchair graphene nanoribbons: DFT calculations. <i>RSC Advances</i> , 2016, 6, 21954-21960.	3.6	24
31	Mechanical properties of hypothetical graphene foams: Giant Schwarzites. <i>Carbon</i> , 2016, 96, 1191-1199.	10.3	42
32	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.	14.9	18
33	Covalent Networks: 3D Nanocomposites of Covalently Interconnected Multiwalled Carbon Nanotubes with SiC with Enhanced Thermal and Electrical Properties ( <i>Adv. Funct. Mater.</i> 31/2015). <i>Advanced Functional Materials</i> , 2015, 25, 4922-4922.	14.9	2
34	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.	3.1	44
35	Electronic, magnetic, optical, and edge-reactivity properties of semiconducting and metallic WS <sub>2</sub> nanoribbons. <i>2D Materials</i> , 2015, 2, 015002.	4.4	24
36	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.	3.1	9

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37	Three-dimensionally bonded spongy graphene material with super compressive elasticity and near-zero Poisson's ratio. Nature Communications, 2015, 6, 6141.	12.8	458
38	Defect-Induced Photoluminescence in Monolayer Semiconducting Transition Metal Dichalcogenides. ACS Nano, 2015, 9, 1520-1527.	14.6	376
39	Biotin molecules on nitrogen-doped carbon nanotubes enhance the uniform anchoring and formation of Ag nanoparticles. Carbon, 2015, 88, 51-59.	10.3	10
40	Extrapolating Dynamic Leidenfrost Principles to Metallic Nanodroplets on Asymmetrically Textured Surfaces. Scientific Reports, 2015, 5, 11769.	3.3	5
41	Stable and solid pellets of functionalized multi-walled carbon nanotubes produced under high pressure and temperature. Journal of Nanoparticle Research, 2015, 17, 1.	1.9	3
42	Beyond Graphene: Progress in Novel Two-Dimensional Materials and van der Waals Solids. Annual Review of Materials Research, 2015, 45, 1-27.	9.3	537
43	Strain and the optoelectronic properties of nonplanar phosphorene monolayers. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 5888-5892.	7.1	57
44	Multivalency-Induced Band Gap Opening at MoS <sub>2</sub> Edges. Chemistry of Materials, 2015, 27, 3326-3331.	6.7	50
45	Tellurium-Assisted Low-Temperature Synthesis of MoS <sub>2</sub> and WS <sub>2</sub> Monolayers. ACS Nano, 2015, 9, 11658-11666.	14.6	123
46	Recent Advances in Two-Dimensional Materials beyond Graphene. ACS Nano, 2015, 9, 11509-11539.	14.6	2,069
47	Two-dimensional transition metal dichalcogenides: Clusters, ribbons, sheets and more. Nano Today, 2015, 10, 559-592.	11.9	107
48	Metal to Insulator Quantum-Phase Transition in Few-Layered ReS <sub>2</sub> . Nano Letters, 2015, 15, 8377-8384.	9.1	101
49	Beryllium doping graphene, graphene-nanoribbons, C60-fullerene, and carbon nanotubes. Carbon, 2015, 84, 317-326.	10.3	27
50	Graphene: Large-Area Si-Doped Graphene: Controllable Synthesis and Enhanced Molecular Sensing (Adv. Mater. 45/2014). Advanced Materials, 2014, 26, 7676-7676.	21.0	0
51	Three-dimensional massless Dirac fermions in carbon schwarzites. Physical Review B, 2014, 90, .	3.2	32
52	Controlling the Optical, Electrical and Chemical Properties of Carbon Inverse Opal by Nitrogen Doping. Advanced Functional Materials, 2014, 24, 2612-2619.	14.9	22
53	Facile synthesis of MoS <sub>2</sub> and Mo <sub>1-x</sub> W <sub>x</sub> S <sub>2</sub> triangular monolayers. APL Materials, 2014, 2, .	5.1	93
54	Three-dimensional Nanotube Networks and a New Horizon of Applications. , 2014, , 457-493.		2

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55	Quantitative Chemistry and the Discrete Geometry of Conformal Atom-Thin Crystals. ACS Nano, 2014, 8, 1136-1146.	14.6	27
56	Porous Materials: Controlling the Optical, Electrical and Chemical Properties of Carbon Inverse Opal by Nitrogen Doping (Adv. Funct. Mater. 18/2014). Advanced Functional Materials, 2014, 24, 2611-2611.	14.9	1
57	Band Gap Engineering and Layer-by-Layer Mapping of Selenium-Doped Molybdenum Disulfide. Nano Letters, 2014, 14, 442-449.	9.1	463
58	Large-Area Si-Doped Graphene: Controllable Synthesis and Enhanced Molecular Sensing. Advanced Materials, 2014, 26, 7593-7599.	21.0	116
59	Bilayers of transition metal dichalcogenides: Different stackings and heterostructures. Journal of Materials Research, 2014, 29, 373-382.	2.6	40
60	Theoretical Predictions of Freestanding Honeycomb Sheets of Cadmium Chalcogenides. Journal of Physical Chemistry C, 2014, 118, 16236-16245.	3.1	48
61	Spectroscopic Signatures for Interlayer Coupling in MoS <sub>2</sub> /WSe <sub>2</sub> van der Waals Stacking. ACS Nano, 2014, 8, 9649-9656.	14.6	288
62	Vertical and in-plane heterostructures from WS <sub>2</sub> /MoS <sub>2</sub> monolayers. Nature Materials, 2014, 13, 1135-1142.	27.5	1,918
63	Probing the Interlayer Coupling of Twisted Bilayer MoS <sub>2</sub> Using Photoluminescence Spectroscopy. Nano Letters, 2014, 14, 5500-5508.	9.1	228
64	Excited Excitonic States in 1L, 2L, 3L, and Bulk WSe <sub>2</sub> Observed by Resonant Raman Spectroscopy. ACS Nano, 2014, 8, 9629-9635.	14.6	207
65	Pressure-Induced Selectivity for Probing Inner Tubes in Double- and Triple-Walled Carbon Nanotubes: A Resonance Raman Study. Journal of Physical Chemistry C, 2014, 118, 8153-8158.	3.1	32
66	Synthesis, Characterization and Magnetic Properties of Defective Nitrogen-Doped Multiwall Carbon Nanotubes Encapsulating Ferromagnetic Nanoparticles. Journal of Nano Research, 2014, 28, 39-49.	0.8	2
67	Field-Effect Transistors Based on Few-Layered $\pm$ -MoTe <sub>2</sub> . ACS Nano, 2014, 8, 5911-5920.	14.6	333
68	CVD-grown monolayered MoS <sub>2</sub> as an effective photosensor operating at low-voltage. 2D Materials, 2014, 1, 011004.	4.4	195
69	Nanoribbons: Nitrogen-Doped Graphitic Nanoribbons: Synthesis, Characterization, and Transport (Adv. Tj ETQq1, 1, 0.784314 rgBT /Ov	14.9	31
70	Nitrogen-Doped Graphitic Nanoribbons: Synthesis, Characterization, and Transport. Advanced Functional Materials, 2013, 23, 3755-3762.	14.9	31
71	Spin Transport of Polyacetylene Chains Bridging Zigzag Graphene Nanoribbon Electrodes: A Nonequilibrium Treatment of Structural Control and Spin Filtering. Journal of Physical Chemistry C, 2013, 117, 21178-21185.	3.1	16
72	Structures, Energetics, and Electronic Properties of Layered Materials and Nanotubes of Cadmium Chalcogenides. Journal of Physical Chemistry C, 2013, 117, 25817-25825.	3.1	26

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73	Extraordinary Room-Temperature Photoluminescence in Triangular WS <sub>2</sub> Monolayers. Nano Letters, 2013, 13, 3447-3454.	9.1	1,375
74	Iron Particle Nanodrilling of Few Layer Graphene at Low Electron Beam Accelerating Voltages. Particle and Particle Systems Characterization, 2013, 30, 76-82.	2.3	9
75	Nanodrilling: Iron Particle Nanodrilling of Few Layer Graphene at Low Electron Beam Accelerating Voltages (Part. Part. Syst. Charact. 1/2013). Particle and Particle Systems Characterization, 2013, 30, 75-75.	2.3	0
76	Nitrogen-Silicon Heterodoping of Carbon Nanotubes. Journal of Physical Chemistry C, 2013, 117, 8481-8490.	3.1	19
77	Photosensor Device Based on Few-Layered WS <sub>2</sub> Films. Advanced Functional Materials, 2013, 23, 5511-5517.	14.9	546
78	Edge-Edge Interactions in Stacked Graphene Nanoplatelets. ACS Nano, 2013, 7, 2834-2841.	14.6	25
79	Novel hetero-layered materials with tunable direct band gaps by sandwiching different metal disulfides and diselenides. Scientific Reports, 2013, 3, 1549.	3.3	437
80	Identification of individual and few layers of WS <sub>2</sub> using Raman Spectroscopy. Scientific Reports, 2013, 3, .	3.3	1,185
81	Controlled Synthesis and Transfer of Large-Area WS <sub>2</sub> Sheets: From Single Layer to Few Layers. ACS Nano, 2013, 7, 5235-5242.	14.6	534
82	Sensors: Photosensor Device Based on Few-Layered WS <sub>2</sub> Films (Adv. Funct. Mater. 44/2013). Advanced Functional Materials, 2013, 23, 5510-5510.	14.9	7
83	Fullerenes and Beyond: Complexity, Morphology, and Functionality in Closed Carbon Nanostructures. , 2013, , 83-104.		6
84	Analysis of the molecular structure of human enamel with fluorosis using micro-Raman spectroscopy. Journal of Oral Science, 2012, 54, 93-98.	1.7	20
85	Electronic Control over Attachment and Self-Assembly of Alkyne Groups on Gold. ACS Nano, 2012, 6, 9267-9275.	14.6	25
86	The role of defects and doping in 2D graphene sheets and 1D nanoribbons. Reports on Progress in Physics, 2012, 75, 062501.	20.1	475
87	Structure and Electronic Properties of Edge-Functionalized Armchair Boron Nitride Nanoribbons. Journal of Physical Chemistry C, 2012, 116, 15675-15681.	3.1	40
88	Nitrogen-doped graphene: beyond single substitution and enhanced molecular sensing. Scientific Reports, 2012, 2, 586.	3.3	563
89	Novel Nanocarbons for Adsorption. , 2012, , 3-34.		18
90	Covalently bonded three-dimensional carbon nanotube solids via boron induced nanojunctions. Scientific Reports, 2012, 2, 363.	3.3	329

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91	Beyond Carbon Nanopeapods. ChemPhysChem, 2012, 13, 2273-2276.	2.1	8
92	Phosphorus and phosphorusâ€“nitrogen doped carbon nanotubes for ultrasensitive and selective molecular detection. Nanoscale, 2011, 3, 1008-1013.	5.6	102
93	One-dimensional extended lines of divacancy defects in graphene. Nanoscale, 2011, 3, 2868.	5.6	104
94	Molecular dynamics study of the dewetting of copper on graphite and graphene: Implications for nanoscale self-assembly. Physical Review E, 2011, 83, 041603.	2.1	68
95	Boron Nitride Nanoribbons Become Metallic. Nano Letters, 2011, 11, 3267-3273.	9.1	120
96	Millimeter-Long Carbon Nanotubes: Outstanding Electron-Emitting Sources. ACS Nano, 2011, 5, 5072-5077.	14.6	50
97	Transparent Foamlike 2D Networks of Nitrogen-Doped Multiwalled Carbon Nanotubes Obtained by Self-Assembly. Journal of Physical Chemistry C, 2011, 115, 11447-11452.	3.1	1
98	Quantum Transport in Graphene Nanonetworks. Nano Letters, 2011, 11, 3058-3064.	9.1	71
99	Controlling the Velocity of Jumping Nanodroplets Via Their Initial Shape and Temperature. ACS Nano, 2011, 5, 7130-7136.	14.6	29
100	Hydroxyl-Functionalized and N-Doped Multiwalled Carbon Nanotubes Decorated with Silver Nanoparticles Preserve Cellular Function. ACS Nano, 2011, 5, 2458-2466.	14.6	71
101	Doping (10, 0)-Semiconductor Nanotubes with Nitrogen and Vacancy Defects. Materials Express, 2011, 1, 127-135.	0.5	22
102	Spectroscopic Characterization of N-Doped Single-Walled Carbon Nanotube Strands: An X-ray Photoelectron Spectroscopy and Raman Study. Journal of Nanoscience and Nanotechnology, 2010, 10, 3959-3964.	0.9	34
103	Controlling high coercivities of ferromagnetic nanowires encapsulated in carbon nanotubes. Journal of Materials Chemistry, 2010, 20, 5906.	6.7	59
104	Effect of impurities on the electronic and magnetic properties of zinc oxide nanostructures. Chemical Physics Letters, 2010, 492, 82-88.	2.6	18
105	Graphene and graphite nanoribbons: Morphology, properties, synthesis, defects and applications. Nano Today, 2010, 5, 351-372.	11.9	817
106	Longitudinal Cutting of Pure and Doped Carbon Nanotubes to Form Graphitic Nanoribbons Using Metal Clusters as Nanoscalpels. Nano Letters, 2010, 10, 366-372.	9.1	323
107	Chemical Vapor Deposition Synthesis of N-, P-, and Si-Doped Single-Walled Carbon Nanotubes. ACS Nano, 2010, 4, 1696-1702.	14.6	113
108	Observation of magnetic edge state in graphene nanoribbons. Physical Review B, 2010, 81, .	3.2	132

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109	The Role of Sulfur in the Synthesis of Novel Carbon Morphologies: From Covalent Yâ€¦junctions to Seaâ€¦Urchinâ€¦Like Structures. Advanced Functional Materials, 2009, 19, 1193-1199.	14.9	51
110	Acid modified bambooâ€¦type carbon nanotubes and cupâ€¦stackedâ€¦type carbon nanofibres as adsorbent materials: cadmium removal from aqueous solution. Journal of Chemical Technology and Biotechnology, 2009, 84, 519-524.	3.2	37
111	A theoretical and experimental study on manipulating the structure and properties of carbon nanotubes using substitutional dopants. International Journal of Quantum Chemistry, 2009, 109, 97-118.	2.0	70
112	Thermal stability studies of CVD-grown graphene nanoribbons: Defect annealing and loop formation. Chemical Physics Letters, 2009, 469, 177-182.	2.6	170
113	Metallic and ferromagnetic edges in molybdenum disulfide nanoribbons. Nanotechnology, 2009, 20, 325703.	2.6	185
114	Properties of One-Dimensional Molybdenum Nanowires in a Confined Environment. Nano Letters, 2009, 9, 1487-1492.	9.1	43
115	Effects of 45-nm silver nanoparticles on coronary endothelial cells and isolated rat aortic rings. Toxicology Letters, 2009, 191, 305-313.	0.8	109
116	Synthesis, Electronic Structure, and Raman Scattering of Phosphorus-Doped Single-Wall Carbon Nanotubes. Nano Letters, 2009, 9, 2267-2272.	9.1	134
117	Spin Polarized Conductance in Hybrid Graphene Nanoribbons Using 5âˆ²7 Defects. ACS Nano, 2009, 3, 3606-3612.	14.6	60
118	Heterojunctions between metals and carbon nanotubes as ultimate nanocontacts. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 4591-4595.	7.1	110
119	Electronic Transport and Mechanical Properties of Phosphorus- and Phosphorusâˆ²Nitrogen-Doped Carbon Nanotubes. ACS Nano, 2009, 3, 1913-1921.	14.6	228
120	Enhanced ferromagnetism in ZnO nanoribbons and clusters passivated with sulfur. Nano Research, 2008, 1, 420-426.	10.4	36
121	The two peaks Gâ€² band in carbon nanotubes. Physica Status Solidi (B): Basic Research, 2008, 245, 2197-2200.	1.5	25
122	An Atomistic Branching Mechanism for Carbon Nanotubes: Sulfur as the Triggering Agent. Angewandte Chemie - International Edition, 2008, 47, 2948-2953.	13.8	76
123	Controlling the dimensions, reactivity and crystallinity of multiwalled carbon nanotubes using low ethanol concentrations. Chemical Physics Letters, 2008, 453, 55-61.	2.6	66
124	Heterodoped Nanotubes: Theory, Synthesis, and Characterization of Phosphorusâˆ²Nitrogen Doped Multiwalled Carbon Nanotubes. ACS Nano, 2008, 2, 441-448.	14.6	192
125	Electron and phonon renormalization near charged defects in carbon nanotubes. Nature Materials, 2008, 7, 878-883.	27.5	263
126	Bulk Production of a New Form of sp<sup>2</sup> Carbon: Crystalline Graphene Nanoribbons. Nano Letters, 2008, 8, 2773-2778.	9.1	588



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127	Magnetic properties of individual carbon clusters, clusters inside fullerenes and graphitic nanoribbons. <i>Journal of Materials Chemistry</i> , 2008, 18, 1535.	6.7	11
128	Magnetic Behavior in Zinc Oxide Zigzag Nanoribbons. <i>Nano Letters</i> , 2008, 8, 1562-1565.	9.1	150
129	Guiding Electrical Current in Nanotube Circuits Using Structural Defects: A Step Forward in Nanoelectronics. <i>ACS Nano</i> , 2008, 2, 2585-2591.	14.6	63
130	Soft purification of N-doped and undoped multi-wall carbon nanotubes. <i>Nanotechnology</i> , 2008, 19, 155701.	2.6	6
131	Production and detailed characterization of bean husk-based carbon: Efficient cadmium (II) removal from aqueous solutions. <i>Water Research</i> , 2008, 42, 3473-3479.	11.3	18
132	Electron transport properties of ordered networks using carbon nanotubes. <i>Nanotechnology</i> , 2008, 19, 315704.	2.6	25
133	Hydrogen storage in nanoporous carbon materials: myth and facts. <i>Physical Chemistry Chemical Physics</i> , 2007, 9, 1786-1792.	2.8	151
134	Nitrogen-Mediated Carbon Nanotube Growth: Diameter Reduction, Metallicity, Bundle Dispersability, and Bamboo-like Structure Formation. <i>ACS Nano</i> , 2007, 1, 369-375.	14.6	207
135	Determination of chiralities of single-walled carbon nanotubes by neutron powder diffraction technique. <i>Diamond and Related Materials</i> , 2007, 16, 473-476.	3.9	6
136	Metallic edges in zinc oxide nanoribbons. <i>Chemical Physics Letters</i> , 2007, 448, 258-263.	2.6	53
137	Anomalous Paramagnetism in Doped Carbon Nanostructures. <i>Small</i> , 2007, 3, 120-125.	10.0	14
138	Architectures from Aligned Nanotubes Using Controlled Micropatterning of Silicon Substrates and Electrochemical Methods. <i>Small</i> , 2007, 3, 1157-1163.	10.0	12
139	Synthesis of SWCNT Rings Made by Two Y Junctions and Possible Applications in Electron Interferometry. <i>Small</i> , 2007, 3, 1900-1905.	10.0	19
140	Viability Studies of Pure Carbon and Nitrogen-Doped Nanotubes with <i>Entamoeba histolytica</i> : From Amoebicidal to Biocompatible Structures. <i>Small</i> , 2007, 3, 1723-1729.	10.0	59
141	In situ nucleation of carbon nanotubes by the injection of carbon atoms into metal particles. <i>Nature Nanotechnology</i> , 2007, 2, 307-311.	31.5	226
142	Covalent 2D and 3D Networks from 1D Nanostructures: Designing New Materials. <i>Nano Letters</i> , 2007, 7, 570-576.	9.1	223
143	Biocompatibility and Toxicological Studies of Carbon Nanotubes Doped with Nitrogen. <i>Nano Letters</i> , 2006, 6, 1609-1616.	9.1	332
144	Efficient Anchoring of Silver Nanoparticles on N-Doped Carbon Nanotubes. <i>Small</i> , 2006, 2, 346-350.	10.0	143

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145	Synthesis and characterization of long strands of nitrogen-doped single-walled carbon nanotubes. Chemical Physics Letters, 2006, 424, 345-352.	2.6	198
146	Decorating carbon nanotubes with nanostructured nickel particles via chemical methods. Chemical Physics Letters, 2006, 431, 104-109.	2.6	40
147	Magnetic response in finite carbon graphene sheets and nanotubes. Optical Materials, 2006, 29, 110-115.	3.6	21
148	Hydrogen storage in spherical nanoporous carbons. Chemical Physics Letters, 2005, 403, 363-366.	2.6	63
149	Synthesis and electronic properties of coalesced graphitic nanocones. Chemical Physics Letters, 2005, 407, 327-332.	2.6	13
150	Synthesis and state of art characterization of BN bamboo-like nanotubes: Evidence of a root growth mechanism catalyzed by Fe. Chemical Physics Letters, 2005, 416, 342-348.	2.6	42
151	Femtosecond Laser Nanosurgery of Defects in Carbon Nanotubes. Nano Letters, 2005, 5, 1361-1365.	9.1	31
152	Atomic Nanotube Welders: Boron Interstitials Triggering Connections in Double-Walled Carbon Nanotubes. Nano Letters, 2005, 5, 1099-1105.	9.1	72
153	Zipper Mechanism of Nanotube Fusion: Theory and Experiment. Physical Review Letters, 2004, 92, 075504.	7.8	78
154	Fabrication of vapor and gas sensors using films of aligned CNx nanotubes. Chemical Physics Letters, 2004, 386, 137-143.	2.6	178
155	Direct observation of the structure of gold nanoparticles by total scattering powder neutron diffraction. Chemical Physics Letters, 2004, 393, 385-388.	2.6	89
156	Efficient encapsulation of gaseous nitrogen inside carbon nanotubes with bamboo-like structure using aerosol thermolysis. Chemical Physics Letters, 2004, 396, 167-173.	2.6	72
157	How to Identify Haeckelite Structures: A Theoretical Study of Their Electronic and Vibrational Properties. Nano Letters, 2004, 4, 805-810.	9.1	64
158	Shape and complexity at the atomic scale: the case of layered nanomaterials. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2004, 362, 2039-2063.	3.4	17
159	Coalescence of Double-Walled Carbon Nanotubes: Formation of Novel Carbon Bicables. Nano Letters, 2004, 4, 1451-1454.	9.1	75
160	Introduction. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2004, 362, 2035-2037.	3.4	0
161	Curved nanostructured materials. New Journal of Physics, 2003, 5, 126-126.	2.9	170
162	Structure, transport and field-emission properties of compound nanotubes: CN x vs. BNC x (x < 0.1). Applied Physics A: Materials Science and Processing, 2003, 76, 499-507.	2.3	89

163	Production and State-of-the-Art Characterization of Aligned Nanotubes with Homogeneous BCxN (1â€‰%â€‰%â€‰%â€‰%â€‰%5) Compositions. Advanced Materials, 2003, 15, 1899-1903.	21.0	56
164	Electronic properties of giant fullerenes and complex graphitic nanostructures with novel morphologies. Chemical Physics Letters, 2003, 381, 683-690.	2.6	17
165	Microstructural changes induced in â€œstacked cupâ€œ-carbon nanofibers by heat treatment. Carbon, 2003, 41, 1941-1947.	10.3	174
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