

Humberto Terrones

List of Publications by Year in descending order

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221
papers

31,865
citations

4120

87
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3997

176
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docs citations

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times ranked

30723
citing authors

#	ARTICLE	IF	CITATIONS
1	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.	1.5	4
2	Catalyst-free synthesis of sub-5 nm silicon nanowire arrays with massive lattice contraction and wide bandgap. <i>Nature Communications</i> , 2022, 13, .	5.8	13
3	Evidence of itinerant holes for long-range magnetic order in the tungsten diselenide semiconductor with vanadium dopants. <i>Physical Review B</i> , 2021, 103, .	1.1	16
4	Voltage-Dependent Barrier Height of Electron Transport through Iron Porphyrin Molecular Junctions. <i>Journal of Physical Chemistry C</i> , 2021, 125, 7350-7357.	1.5	1
5	Bandgap Tuning in BaZrS ₃ Perovskite Thin Films. <i>ACS Applied Electronic Materials</i> , 2021, 3, 3306-3312.	2.0	31
6	Second harmonic generation in two-dimensional transition metal dichalcogenides with growth and post-synthesis defects. <i>2D Materials</i> , 2020, 7, 045020.	2.0	10
7	Single-atom doping of MoS ₂ with manganese enables ultrasensitive detection of dopamine: Experimental and computational approach. <i>Science Advances</i> , 2020, 6, eabc4250.	4.7	136
8	Selective Synthesis of Bi ₂ Te ₃ /WS ₂ Heterostructures with Strong Interlayer Coupling. <i>ACS Applied Materials & Interfaces</i> , 2020, , .	4.0	2
9	Universal <i>In Situ</i> Substitutional Doping of Transition Metal Dichalcogenides by Liquid-Phase Precursor-Assisted Synthesis. <i>ACS Nano</i> , 2020, 14, 4326-4335.	7.3	100
10	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, .	11	18
11	Carrier lifetime enhancement in halide perovskite via remote epitaxy. <i>Nature Communications</i> , 2019, 10, 4145.	5.8	93
12	Large Metallic Vanadium Disulfide Ultrathin Flakes for Spintronic Circuits and Quantum Computing Devices. <i>ACS Applied Nano Materials</i> , 2019, 2, 3684-3694.	2.4	14
13	Raman and electrical transport properties of few-layered arsenic-doped black phosphorus. <i>Nanoscale</i> , 2019, 11, 18449-18463.	2.8	27
14	Excitonic Complexes and Emerging Interlayer Electron-Phonon Coupling in BN Encapsulated Monolayer Semiconductor Alloy: WS _{0.6} Se _{1.4} . <i>Nano Letters</i> , 2019, 19, 299-307.	4.5	20
15	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.	7.3	34
16	Phase Modulators Based on High Mobility Ambipolar ReSe ₂ Field-Effect Transistors. <i>Scientific Reports</i> , 2018, 8, 12745.	1.6	19
17	Large second harmonic generation in alloyed TMDs and boron nitride nanostructures. <i>Scientific Reports</i> , 2018, 8, 10118.	1.6	45
18	Electronic and optical properties of strained graphene and other strained 2D materials: a review. <i>Reports on Progress in Physics</i> , 2017, 80, 096501.	8.1	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.	2.8	10
20	BNC nanoshells: a novel structure for atomic storage. <i>Nanotechnology</i> , 2017, 28, 465201.	1.3	3
21	Temperature Dependence of Sensors Based on Silver-Decorated Nitrogen-Doped Multiwalled Carbon Nanotubes. <i>Journal of Sensors</i> , 2016, 2016, 1-10.	0.6	9
22	Transport properties through hexagonal boron nitride clusters embedded in graphene nanoribbons. <i>Nanotechnology</i> , 2016, 27, 185203.	1.3	7
23	Electric-Field-Assisted Directed Assembly of Transition Metal Dichalcogenide Monolayer Sheets. <i>ACS Nano</i> , 2016, 10, 5006-5014.	7.3	9
24	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.	1.6	7
25	Temperature- and power-dependent phonon properties of suspended continuous WS ₂ monolayer films. <i>Vibrational Spectroscopy</i> , 2016, 86, 270-276.	1.2	15
26	Defect engineering of two-dimensional transition metal dichalcogenides. <i>2D Materials</i> , 2016, 3, 022002.	2.0	736
27	Third order nonlinear optical response exhibited by mono- and few-layers of WS ₂ . <i>2D Materials</i> , 2016, 3, 021005.	2.0	46
28	Atypical Exciton-Phonon Interactions in WS ₂ and WSe ₂ Monolayers Revealed by Resonance Raman Spectroscopy. <i>Nano Letters</i> , 2016, 16, 2363-2368.	4.5	118
29	Electron transport study on functionalized armchair graphene nanoribbons: DFT calculations. <i>RSC Advances</i> , 2016, 6, 21954-21960.	1.7	24
30	Mechanical properties of hypothetical graphene foams: Giant Schwarzites. <i>Carbon</i> , 2016, 96, 1191-1199.	5.4	42
31	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.	7.8	18
32	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.	7.8	2
33	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.	1.5	44
34	Electronic, magnetic, optical, and edge-reactivity properties of semiconducting and metallic WS ₂ nanoribbons. <i>2D Materials</i> , 2015, 2, 015002.	2.0	24
35	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.	1.5	9
36	Three-dimensionally bonded spongy graphene material with super compressive elasticity and near-zero Poisson's ratio. <i>Nature Communications</i> , 2015, 6, 6141.	5.8	458

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37	Defect-Induced Photoluminescence in Monolayer Semiconducting Transition Metal Dichalcogenides. ACS Nano, 2015, 9, 1520-1527.	7.3	376
38	Biotin molecules on nitrogen-doped carbon nanotubes enhance the uniform anchoring and formation of Ag nanoparticles. Carbon, 2015, 88, 51-59.	5.4	10
39	Extrapolating Dynamic Leidenfrost Principles to Metallic Nanodroplets on Asymmetrically Textured Surfaces. Scientific Reports, 2015, 5, 11769.	1.6	5
40	Stable and solid pellets of functionalized multi-walled carbon nanotubes produced under high pressure and temperature. Journal of Nanoparticle Research, 2015, 17, 1.	0.8	3
41	Beyond Graphene: Progress in Novel Two-Dimensional Materials and van der Waals Solids. Annual Review of Materials Research, 2015, 45, 1-27.	4.3	537
42	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.	3.3	57
43	Multivalency-Induced Band Gap Opening at MoS ₂ Edges. Chemistry of Materials, 2015, 27, 3326-3331.	3.2	50
44	Tellurium-Assisted Low-Temperature Synthesis of MoS ₂ and WS ₂ Monolayers. ACS Nano, 2015, 9, 11658-11666.	7.3	123
45	Recent Advances in Two-Dimensional Materials beyond Graphene. ACS Nano, 2015, 9, 11509-11539.	7.3	2,069
46	Two-dimensional transition metal dichalcogenides: Clusters, ribbons, sheets and more. Nano Today, 2015, 10, 559-592.	6.2	107
47	Metal to Insulator Quantum-Phase Transition in Few-Layered ReS ₂ . Nano Letters, 2015, 15, 8377-8384.	4.5	101
48	Beryllium doping graphene, graphene-nanoribbons, C60-fullerene, and carbon nanotubes. Carbon, 2015, 84, 317-326.	5.4	27
49	Graphene: Large-Area Si-Doped Graphene: Controllable Synthesis and Enhanced Molecular Sensing (Adv. Mater. 45/2014). Advanced Materials, 2014, 26, 7676-7676.	11.1	0
50	Three-dimensional massless Dirac fermions in carbon schwarzites. Physical Review B, 2014, 90, .	1.1	32
51	Controlling the Optical, Electrical and Chemical Properties of Carbon Inverse Opal by Nitrogen Doping. Advanced Functional Materials, 2014, 24, 2612-2619.	7.8	22
52	Facile synthesis of MoS ₂ and Mo _x W _{1-x} S ₂ triangular monolayers. APL Materials, 2014, 2, .	2.2	93
53	Three-dimensional Nanotube Networks and a New Horizon of Applications. , 2014, , 457-493.		2
54	Quantitative Chemistry and the Discrete Geometry of Conformal Atom-Thin Crystals. ACS Nano, 2014, 8, 1136-1146.	7.3	27

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55	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.	7.8	1
56	Band Gap Engineering and Layer-by-Layer Mapping of Selenium-Doped Molybdenum Disulfide. Nano Letters, 2014, 14, 442-449.	4.5	463
57	Large Area Si-Doped Graphene: Controllable Synthesis and Enhanced Molecular Sensing. Advanced Materials, 2014, 26, 7593-7599.	11.1	116
58	Bilayers of transition metal dichalcogenides: Different stackings and heterostructures. Journal of Materials Research, 2014, 29, 373-382.	1.2	40
59	Theoretical Predictions of Freestanding Honeycomb Sheets of Cadmium Chalcogenides. Journal of Physical Chemistry C, 2014, 118, 16236-16245.	1.5	48
60	Spectroscopic Signatures for Interlayer Coupling in MoS ₂ /WSe ₂ van der Waals Stacking. ACS Nano, 2014, 8, 9649-9656.	7.3	288
61	Vertical and in-plane heterostructures from WS ₂ /MoS ₂ monolayers. Nature Materials, 2014, 13, 1135-1142.	13.3	1,918
62	Probing the Interlayer Coupling of Twisted Bilayer MoS ₂ Using Photoluminescence Spectroscopy. Nano Letters, 2014, 14, 5500-5508.	4.5	228
63	Excited Excitonic States in 1L, 2L, 3L, and Bulk WSe ₂ Observed by Resonant Raman Spectroscopy. ACS Nano, 2014, 8, 9629-9635.	7.3	207
64	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.	1.5	32
65	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
66	Field-Effect Transistors Based on Few-Layered \pm -MoTe ₂ . ACS Nano, 2014, 8, 5911-5920.	7.3	333
67	CVD-grown monolayered MoS ₂ as an effective photosensor operating at low-voltage. 2D Materials, 2014, 1, 011004.	2.0	195
68	Nanoribbons: Nitrogen-Doped Graphitic Nanoribbons: Synthesis, Characterization, and Transport (Adv. Tj ETQq0,0,0 rgBT /Overlock 1	7.8	0
69	Nitrogen-Doped Graphitic Nanoribbons: Synthesis, Characterization, and Transport. Advanced Functional Materials, 2013, 23, 3755-3762.	7.8	31
70	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.	1.5	16
71	Structures, Energetics, and Electronic Properties of Layered Materials and Nanotubes of Cadmium Chalcogenides. Journal of Physical Chemistry C, 2013, 117, 25817-25825.	1.5	26
72	Extraordinary Room-Temperature Photoluminescence in Triangular WS ₂ Monolayers. Nano Letters, 2013, 13, 3447-3454.	4.5	1,375

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73	Iron Particle Nanodrilling of Few Layer Graphene at Low Electron Beam Accelerating Voltages. Particle and Particle Systems Characterization, 2013, 30, 76-82.	1.2	9
74	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.	1.2	0
75	Nitrogen-Silicon Heterodoping of Carbon Nanotubes. Journal of Physical Chemistry C, 2013, 117, 8481-8490.	1.5	19
76	Photosensor Device Based on Few-Layered WS ₂ Films. Advanced Functional Materials, 2013, 23, 5511-5517.	7.8	546
77	Edge-Edge Interactions in Stacked Graphene Nanoplatelets. ACS Nano, 2013, 7, 2834-2841.	7.3	25
78	Novel hetero-layered materials with tunable direct band gaps by sandwiching different metal disulfides and diselenides. Scientific Reports, 2013, 3, 1549.	1.6	437
79	Identification of individual and few layers of WS ₂ using Raman Spectroscopy. Scientific Reports, 2013, 3, .	1.6	1,185
80	Controlled Synthesis and Transfer of Large-Area WS ₂ Sheets: From Single Layer to Few Layers. ACS Nano, 2013, 7, 5235-5242.	7.3	534
81	Sensors: Photosensor Device Based on Few-Layered WS ₂ Films (Adv. Funct. Mater. 44/2013). Advanced Functional Materials, 2013, 23, 5510-5510.	7.8	7
82	Fullerenes and Beyond: Complexity, Morphology, and Functionality in Closed Carbon Nanostructures. , 2013, , 83-104.		6
83	Analysis of the molecular structure of human enamel with fluorosis using micro-Raman spectroscopy. Journal of Oral Science, 2012, 54, 93-98.	0.7	20
84	Electronic Control over Attachment and Self-Assembly of Alkyne Groups on Gold. ACS Nano, 2012, 6, 9267-9275.	7.3	25
85	The role of defects and doping in 2D graphene sheets and 1D nanoribbons. Reports on Progress in Physics, 2012, 75, 062501.	8.1	475
86	Structure and Electronic Properties of Edge-Functionalized Armchair Boron Nitride Nanoribbons. Journal of Physical Chemistry C, 2012, 116, 15675-15681.	1.5	40
87	Nitrogen-doped graphene: beyond single substitution and enhanced molecular sensing. Scientific Reports, 2012, 2, 586.	1.6	563
88	Novel Nanocarbons for Adsorption. , 2012, , 3-34.		18
89	Covalently bonded three-dimensional carbon nanotube solids via boron induced nanojunctions. Scientific Reports, 2012, 2, 363.	1.6	329
90	Beyond Carbon Nanopeapods. ChemPhysChem, 2012, 13, 2273-2276.	1.0	8

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91	Phosphorus and phosphorusâ€“nitrogen doped carbon nanotubes for ultrasensitive and selective molecular detection. <i>Nanoscale</i> , 2011, 3, 1008-1013.	2.8	102
92	One-dimensional extended lines of divacancy defects in graphene. <i>Nanoscale</i> , 2011, 3, 2868.	2.8	104
93	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.	0.8	68
94	Boron Nitride Nanoribbons Become Metallic. <i>Nano Letters</i> , 2011, 11, 3267-3273.	4.5	120
95	Millimeter-Long Carbon Nanotubes: Outstanding Electron-Emitting Sources. <i>ACS Nano</i> , 2011, 5, 5072-5077.	7.3	50
96	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.	1.5	1
97	Quantum Transport in Graphene Nanonetworks. <i>Nano Letters</i> , 2011, 11, 3058-3064.	4.5	71
98	Controlling the Velocity of Jumping Nanodroplets Via Their Initial Shape and Temperature. <i>ACS Nano</i> , 2011, 5, 7130-7136.	7.3	29
99	Hydroxyl-Functionalized and N-Doped Multiwalled Carbon Nanotubes Decorated with Silver Nanoparticles Preserve Cellular Function. <i>ACS Nano</i> , 2011, 5, 2458-2466.	7.3	71
100	Doping (10, 0)-Semiconductor Nanotubes with Nitrogen and Vacancy Defects. <i>Materials Express</i> , 2011, 1, 127-135.	0.2	22
101	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, 3959-3964.	0.9	34
102	Controlling high coercivities of ferromagnetic nanowires encapsulated in carbon nanotubes. <i>Journal of Materials Chemistry</i> , 2010, 20, 5906.	6.7	59
103	Effect of impurities on the electronic and magnetic properties of zinc oxide nanostructures. <i>Chemical Physics Letters</i> , 2010, 492, 82-88.	1.2	18
104	Graphene and graphite nanoribbons: Morphology, properties, synthesis, defects and applications. <i>Nano Today</i> , 2010, 5, 351-372.	6.2	817
105	Longitudinal Cutting of Pure and Doped Carbon Nanotubes to Form Graphitic Nanoribbons Using Metal Clusters as Nanoscalpels. <i>Nano Letters</i> , 2010, 10, 366-372.	4.5	323
106	Chemical Vapor Deposition Synthesis of N-, P-, and Si-Doped Single-Walled Carbon Nanotubes. <i>ACS Nano</i> , 2010, 4, 1696-1702.	7.3	113
107	Observation of magnetic edge state in graphene nanoribbons. <i>Physical Review B</i> , 2010, 81, .	1.1	132
108	The Role of Sulfur in the Synthesis of Novel Carbon Morphologies: From Covalent Yâ€“junctions to Seaâ€“urchinâ€“like Structures. <i>Advanced Functional Materials</i> , 2009, 19, 1193-1199.	7.8	51

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109	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.	1.6	37
110	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.	1.0	70
111	Thermal stability studies of CVD-grown graphene nanoribbons: Defect annealing and loop formation. <i>Chemical Physics Letters</i> , 2009, 469, 177-182.	1.2	170
112	Metallic and ferromagnetic edges in molybdenum disulfide nanoribbons. <i>Nanotechnology</i> , 2009, 20, 325703.	1.3	185
113	Properties of One-Dimensional Molybdenum Nanowires in a Confined Environment. <i>Nano Letters</i> , 2009, 9, 1487-1492.	4.5	43
114	Effects of 45-nm silver nanoparticles on coronary endothelial cells and isolated rat aortic rings. <i>Toxicology Letters</i> , 2009, 191, 305-313.	0.4	109
115	Synthesis, Electronic Structure, and Raman Scattering of Phosphorus-Doped Single-Wall Carbon Nanotubes. <i>Nano Letters</i> , 2009, 9, 2267-2272.	4.5	134
116	Spin Polarized Conductance in Hybrid Graphene Nanoribbons Using 5 ⁺ 7 Defects. <i>ACS Nano</i> , 2009, 3, 3606-3612.	7.3	60
117	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, 4591-4595.	3.3	110
118	Electronic Transport and Mechanical Properties of Phosphorus- and Phosphorus-Nitrogen-Doped Carbon Nanotubes. <i>ACS Nano</i> , 2009, 3, 1913-1921.	7.3	228
119	Enhanced ferromagnetism in ZnO nanoribbons and clusters passivated with sulfur. <i>Nano Research</i> , 2008, 1, 420-426.	5.8	36
120	The two peaks G ⁺ band in carbon nanotubes. <i>Physica Status Solidi (B): Basic Research</i> , 2008, 245, 2197-2200.	0.7	25
121	An Atomistic Branching Mechanism for Carbon Nanotubes: Sulfur as the Triggering Agent. <i>Angewandte Chemie - International Edition</i> , 2008, 47, 2948-2953.	7.2	76
122	Controlling the dimensions, reactivity and crystallinity of multiwalled carbon nanotubes using low ethanol concentrations. <i>Chemical Physics Letters</i> , 2008, 453, 55-61.	1.2	66
123	Heterodoped Nanotubes: Theory, Synthesis, and Characterization of Phosphorus-Nitrogen Doped Multiwalled Carbon Nanotubes. <i>ACS Nano</i> , 2008, 2, 441-448.	7.3	192
124	Electron and phonon renormalization near charged defects in carbon nanotubes. <i>Nature Materials</i> , 2008, 7, 878-883.	13.3	263
125	Bulk Production of a New Form of sp ² Carbon: Crystalline Graphene Nanoribbons. <i>Nano Letters</i> , 2008, 8, 2773-2778.	4.5	588
126	Magnetic properties of individual carbon clusters, clusters inside fullerenes and graphitic nanoribbons. <i>Journal of Materials Chemistry</i> , 2008, 18, 1535.	6.7	11

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127	Magnetic Behavior in Zinc Oxide Zigzag Nanoribbons. <i>Nano Letters</i> , 2008, 8, 1562-1565.	4.5	150
128	Guiding Electrical Current in Nanotube Circuits Using Structural Defects: A Step Forward in Nanoelectronics. <i>ACS Nano</i> , 2008, 2, 2585-2591.	7.3	63
129	Soft purification of N-doped and undoped multi-wall carbon nanotubes. <i>Nanotechnology</i> , 2008, 19, 155701.	1.3	6
130	Production and detailed characterization of bean husk-based carbon: Efficient cadmium (II) removal from aqueous solutions. <i>Water Research</i> , 2008, 42, 3473-3479.	5.3	18
131	Electron transport properties of ordered networks using carbon nanotubes. <i>Nanotechnology</i> , 2008, 19, 315704.	1.3	25
132	Hydrogen storage in nanoporous carbon materials: myth and facts. <i>Physical Chemistry Chemical Physics</i> , 2007, 9, 1786-1792.	1.3	151
133	Nitrogen-Mediated Carbon Nanotube Growth: Diameter Reduction, Metallicity, Bundle Dispersability, and Bamboo-like Structure Formation. <i>ACS Nano</i> , 2007, 1, 369-375.	7.3	207
134	Determination of chiralities of single-walled carbon nanotubes by neutron powder diffraction technique. <i>Diamond and Related Materials</i> , 2007, 16, 473-476.	1.8	6
135	Metallic edges in zinc oxide nanoribbons. <i>Chemical Physics Letters</i> , 2007, 448, 258-263.	1.2	53
136	Anomalous Paramagnetism in Doped Carbon Nanostructures. <i>Small</i> , 2007, 3, 120-125.	5.2	14
137	Architectures from Aligned Nanotubes Using Controlled Micropatterning of Silicon Substrates and Electrochemical Methods. <i>Small</i> , 2007, 3, 1157-1163.	5.2	12
138	Synthesis of SWCNT Rings Made by Two Y Junctions and Possible Applications in Electron Interferometry. <i>Small</i> , 2007, 3, 1900-1905.	5.2	19
139	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.	5.2	59
140	In situ nucleation of carbon nanotubes by the injection of carbon atoms into metal particles. <i>Nature Nanotechnology</i> , 2007, 2, 307-311.	15.6	226
141	Covalent 2D and 3D Networks from 1D Nanostructures: Designing New Materials. <i>Nano Letters</i> , 2007, 7, 570-576.	4.5	223
142	Biocompatibility and Toxicological Studies of Carbon Nanotubes Doped with Nitrogen. <i>Nano Letters</i> , 2006, 6, 1609-1616.	4.5	332
143	Efficient Anchoring of Silver Nanoparticles on N-Doped Carbon Nanotubes. <i>Small</i> , 2006, 2, 346-350.	5.2	143
144	Synthesis and characterization of long strands of nitrogen-doped single-walled carbon nanotubes. <i>Chemical Physics Letters</i> , 2006, 424, 345-352.	1.2	198

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145	Decorating carbon nanotubes with nanostructured nickel particles via chemical methods. <i>Chemical Physics Letters</i> , 2006, 431, 104-109.	1.2	40
146	Magnetic response in finite carbon graphene sheets and nanotubes. <i>Optical Materials</i> , 2006, 29, 110-115.	1.7	21
147	Hydrogen storage in spherical nanoporous carbons. <i>Chemical Physics Letters</i> , 2005, 403, 363-366.	1.2	63
148	Synthesis and electronic properties of coalesced graphitic nanocones. <i>Chemical Physics Letters</i> , 2005, 407, 327-332.	1.2	13
149	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.	1.2	42
150	Femtosecond Laser Nanosurgery of Defects in Carbon Nanotubes. <i>Nano Letters</i> , 2005, 5, 1361-1365.	4.5	31
151	Atomic Nanotube Welders: Boron Interstitials Triggering Connections in Double-Walled Carbon Nanotubes. <i>Nano Letters</i> , 2005, 5, 1099-1105.	4.5	72
152	Zipper Mechanism of Nanotube Fusion: Theory and Experiment. <i>Physical Review Letters</i> , 2004, 92, 075504.	2.9	78
153	Fabrication of vapor and gas sensors using films of aligned CN _x nanotubes. <i>Chemical Physics Letters</i> , 2004, 386, 137-143.	1.2	178
154	Direct observation of the structure of gold nanoparticles by total scattering powder neutron diffraction. <i>Chemical Physics Letters</i> , 2004, 393, 385-388.	1.2	89
155	Efficient encapsulation of gaseous nitrogen inside carbon nanotubes with bamboo-like structure using aerosol thermolysis. <i>Chemical Physics Letters</i> , 2004, 396, 167-173.	1.2	72
156	How to Identify Haeckelite Structures: A Theoretical Study of Their Electronic and Vibrational Properties. <i>Nano Letters</i> , 2004, 4, 805-810.	4.5	64
157	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, 2039-2063.	1.6	17
158	Coalescence of Double-Walled Carbon Nanotubes: Formation of Novel Carbon Bicables. <i>Nano Letters</i> , 2004, 4, 1451-1454.	4.5	75
159	Introduction. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2004, 362, 2035-2037.	1.6	0
160	Curved nanostructured materials. <i>New Journal of Physics</i> , 2003, 5, 126-126.	1.2	170
161	Structure, transport and field-emission properties of compound nanotubes: CN _x vs. BNC _x ($x < 0.1$). <i>Applied Physics A: Materials Science and Processing</i> , 2003, 76, 499-507.	1.1	89
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