

Mauricio Terrones

List of Publications by Year in descending order

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713
papers

67,993
citations

668

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981

237
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751
all docs

751
docs citations

751
times ranked

55205
citing authors

#	ARTICLE	IF	CITATIONS
1	Progress, Challenges, and Opportunities in Two-Dimensional Materials Beyond Graphene. ACS Nano, 2013, 7, 2898-2926.	7.3	4,062
2	Recent Advances in Two-Dimensional Materials beyond Graphene. ACS Nano, 2015, 9, 11509-11539.	7.3	2,069
3	Vertical and in-plane heterostructures from WS ₂ /MoS ₂ monolayers. Nature Materials, 2014, 13, 1135-1142.	13.3	1,918
4	Extraordinary Room-Temperature Photoluminescence in Triangular WS ₂ Monolayers. Nano Letters, 2013, 13, 3447-3454.	4.5	1,375
5	Identification of individual and few layers of WS ₂ using Raman Spectroscopy. Scientific Reports, 2013, 3, .	1.6	1,185
6	Transition Metal Dichalcogenides and Beyond: Synthesis, Properties, and Applications of Single- and Few-Layer Nanosheets. Accounts of Chemical Research, 2015, 48, 56-64.	7.6	1,089
7	Evaluating the characteristics of multiwall carbon nanotubes. Carbon, 2011, 49, 2581-2602.	5.4	951
8	Science and Technology of the Twenty-First Century: Synthesis, Properties, and Applications of Carbon Nanotubes. Annual Review of Materials Research, 2003, 33, 419-501.	4.3	871
9	Graphene and graphite nanoribbons: Morphology, properties, synthesis, defects and applications. Nano Today, 2010, 5, 351-372.	6.2	817
10	Controlled production of aligned-nanotube bundles. Nature, 1997, 388, 52-55.	13.7	763
11	Defect engineering of two-dimensional transition metal dichalcogenides. 2D Materials, 2016, 3, 022002.	2.0	736
12	Identification of Electron Donor States in N-Doped Carbon Nanotubes. Nano Letters, 2001, 1, 457-460.	4.5	727
13	Molecular Junctions by Joining Single-Walled Carbon Nanotubes. Physical Review Letters, 2002, 89, 075505.	2.9	656
14	Controlled Formation of Sharp Zigzag and Armchair Edges in Graphitic Nanoribbons. Science, 2009, 323, 1701-1705.	6.0	655
15	Fast and Efficient Preparation of Exfoliated 2H MoS ₂ Nanosheets by Sonication-Assisted Lithium Intercalation and Infrared Laser-Induced 1T to 2H Phase Reversion. Nano Letters, 2015, 15, 5956-5960.	4.5	603
16	Bulk Production of a New Form of sp ² Carbon: Crystalline Graphene Nanoribbons. Nano Letters, 2008, 8, 2773-2778.	4.5	588
17	Nitrogen-doped graphene: beyond single substitution and enhanced molecular sensing. Scientific Reports, 2012, 2, 586.	1.6	563
18	Effect of defects on the intrinsic strength and stiffness of graphene. Nature Communications, 2014, 5, 3186.	5.8	560

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19	“Buckypaper”™ from coaxial nanotubes. <i>Nature</i> , 2005, 433, 476-476.	13.7	548
20	Photosensor Device Based on Few-Layered WS ₂ Films. <i>Advanced Functional Materials</i> , 2013, 23, 5511-5517.	7.8	546
21	Ultra-high humidity sensitivity of graphene oxide. <i>Scientific Reports</i> , 2013, 3, 2714.	1.6	542
22	Beyond Graphene: Progress in Novel Two-Dimensional Materials and van der Waals Solids. <i>Annual Review of Materials Research</i> , 2015, 45, 1-27.	4.3	537
23	Controlled Synthesis and Transfer of Large-Area WS ₂ Sheets: From Single Layer to Few Layers. <i>ACS Nano</i> , 2013, 7, 5235-5242.	7.3	534
24	Selective Attachment of Gold Nanoparticles to Nitrogen-Doped Carbon Nanotubes. <i>Nano Letters</i> , 2003, 3, 275-277.	4.5	518
25	Structure and Electronic Properties of MoS ₂ Nanotubes. <i>Physical Review Letters</i> , 2000, 85, 146-149.	2.9	497
26	New Metallic Allotropes of Planar and Tubular Carbon. <i>Physical Review Letters</i> , 2000, 84, 1716-1719.	2.9	485
27	The role of defects and doping in 2D graphene sheets and 1D nanoribbons. <i>Reports on Progress in Physics</i> , 2012, 75, 062501.	8.1	475
28	Coalescence of Single-Walled Carbon Nanotubes. <i>Science</i> , 2000, 288, 1226-1229.	6.0	469
29	Band Gap Engineering and Layer-by-Layer Mapping of Selenium-Doped Molybdenum Disulfide. <i>Nano Letters</i> , 2014, 14, 442-449.	4.5	463
30	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
31	Novel hetero-layered materials with tunable direct band gaps by sandwiching different metal disulfides and diselenides. <i>Scientific Reports</i> , 2013, 3, 1549.	1.6	437
32	Graphene edges: a review of their fabrication and characterization. <i>Nanoscale</i> , 2011, 3, 86-95.	2.8	410
33	2D materials advances: from large scale synthesis and controlled heterostructures to improved characterization techniques, defects and applications. <i>2D Materials</i> , 2016, 3, 042001.	2.0	408
34	N-doping and coalescence of carbon nanotubes: synthesis and electronic properties. <i>Applied Physics A: Materials Science and Processing</i> , 2002, 74, 355-361.	1.1	392
35	Carbon Nanotubes and Related Nanomaterials: Critical Advances and Challenges for Synthesis toward Mainstream Commercial Applications. <i>ACS Nano</i> , 2018, 12, 11756-11784.	7.3	388
36	Ex-MWNTs: Graphene Sheets and Ribbons Produced by Lithium Intercalation and Exfoliation of Carbon Nanotubes. <i>Nano Letters</i> , 2009, 9, 1527-1533.	4.5	369

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37	New First Order Raman-active Modes in Few Layered Transition Metal Dichalcogenides. Scientific Reports, 2014, 4, 4215.	1.6	367
38	Structural characterization of cup-stacked-type nanofibers with an entirely hollow core. Applied Physics Letters, 2002, 80, 1267-1269.	1.5	361
39	Manganese Doping of Monolayer MoS ₂ : The Substrate Is Critical. Nano Letters, 2015, 15, 6586-6591.	4.5	357
40	Protein immobilization on carbon nanotubes via a two-step process of diimide-activated amidation. Journal of Materials Chemistry, 2004, 14, 37.	6.7	354
41	Field-Effect Transistors Based on Few-Layered \pm -MoTe ₂ . ACS Nano, 2014, 8, 5911-5920.	7.3	333
42	Biocompatibility and Toxicological Studies of Carbon Nanotubes Doped with Nitrogen. Nano Letters, 2006, 6, 1609-1616.	4.5	332
43	Covalently bonded three-dimensional carbon nanotube solids via boron induced nanojunctions. Scientific Reports, 2012, 2, 363.	1.6	329
44	Longitudinal Cutting of Pure and Doped Carbon Nanotubes to Form Graphitic Nanoribbons Using Metal Clusters as Nanoscalpels. Nano Letters, 2010, 10, 366-372.	4.5	323
45	Flexible Piezoelectric ZnO "Paper Nanocomposite Strain Sensor. Small, 2010, 6, 1641-1646.	5.2	318
46	Effective NaCl and dye rejection of hybrid graphene oxide/graphene layered membranes. Nature Nanotechnology, 2017, 12, 1083-1088.	15.6	307
47	Enhanced magnetic coercivities in Fe nanowires. Applied Physics Letters, 1999, 75, 3363-3365.	1.5	303
48	Defects and impurities in graphene-like materials. Materials Today, 2012, 15, 98-109.	8.3	298
49	Spectroscopic Signatures for Interlayer Coupling in MoS ₂ "WSe ₂ van der Waals Stacking. ACS Nano, 2014, 8, 9649-9656.	7.3	288
50	Carbon Nanotubes as High-Pressure Cylinders and Nanoextruders. Science, 2006, 312, 1199-1202.	6.0	283
51	Metal particle catalysed production of nanoscale BN structures. Chemical Physics Letters, 1996, 259, 568-573.	1.2	282
52	Condensed-phase nanotubes. Nature, 1995, 377, 687-687.	13.7	277
53	Interphases in Graphene Polymer-based Nanocomposites: Achievements and Challenges. Advanced Materials, 2011, 23, 5302-5310.	11.1	272
54	Electron and phonon renormalization near charged defects in carbon nanotubes. Nature Materials, 2008, 7, 878-883.	13.3	263

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55	Extraordinary Second Harmonic Generation in Tungsten Disulfide Monolayers. <i>Scientific Reports</i> , 2014, 4, 5530.	1.6	262
56	Carbon science in 2016: Status, challenges and perspectives. <i>Carbon</i> , 2016, 98, 708-732.	5.4	261
57	Nanotubes in a Flash—Ignition and Reconstruction. <i>Science</i> , 2002, 296, 705-705.	6.0	256
58	Direct Synthesis of van der Waals Solids. <i>ACS Nano</i> , 2014, 8, 3715-3723.	7.3	253
59	Carbon Nitride Nanocomposites: Formation of Aligned C _x N _y Nanofibers. <i>Advanced Materials</i> , 1999, 11, 655-658.	11.1	252
60	Raman Spectroscopy of Boron-Doped Single-Layer Graphene. <i>ACS Nano</i> , 2012, 6, 6293-6300.	7.3	245
61	Efficient route to large arrays of CN _x nanofibers by pyrolysis of ferrocene/melamine mixtures. <i>Applied Physics Letters</i> , 1999, 75, 3932-3934.	1.5	242
62	Carbon nanotubes: synthesis and properties, electronic devices and other emerging applications. <i>International Materials Reviews</i> , 2004, 49, 325-377.	9.4	231
63	Toxicity Evaluation for Safe Use of Nanomaterials: Recent Achievements and Technical Challenges. <i>Advanced Materials</i> , 2009, 21, 1549-1559.	11.1	231
64	Electronic Transport and Mechanical Properties of Phosphorus- and Phosphorus- and Nitrogen-Doped Carbon Nanotubes. <i>ACS Nano</i> , 2009, 3, 1913-1921.	7.3	228
65	Conducting linear chains of sulphur inside carbon nanotubes. <i>Nature Communications</i> , 2013, 4, 2162.	5.8	228
66	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
67	New direction in nanotube science. <i>Materials Today</i> , 2004, 7, 30-45.	8.3	225
68	Pyrolytically grown B _x C _y N _z nanomaterials: nanofibres and nanotubes. <i>Chemical Physics Letters</i> , 1996, 257, 576-582.	1.2	223
69	Covalent 2D and 3D Networks from 1D Nanostructures: Designing New Materials. <i>Nano Letters</i> , 2007, 7, 570-576.	4.5	223
70	Electrolytic formation of carbon nanostructures. <i>Chemical Physics Letters</i> , 1996, 262, 161-166.	1.2	221
71	Thermal stability and structural changes of double-walled carbon nanotubes by heat treatment. <i>Chemical Physics Letters</i> , 2004, 398, 87-92.	1.2	213
72	Optical identification of sulfur vacancies: Bound excitons at the edges of monolayer tungsten disulfide. <i>Science Advances</i> , 2017, 3, e1602813.	4.7	213

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73	Applications of carbon nanotubes in the twenty-first century. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2004, 362, 2223-2238.	1.6	212
74	Selective and Efficient Impregnation of Metal Nanoparticles on Cup-Stacked-Type Carbon Nanofibers. Nano Letters, 2003, 3, 723-726.	4.5	208
75	Nitrogen-Mediated Carbon Nanotube Growth: Diameter Reduction, Metallicity, Bundle Dispersability, and Bamboo-like Structure Formation. ACS Nano, 2007, 1, 369-375.	7.3	207
76	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
77	Controlled Exfoliation of MoS ₂ Crystals into Trilayer Nanosheets. Journal of the American Chemical Society, 2016, 138, 5143-5149.	6.6	207
78	Pyrolytic production of aligned carbon nanotubes from homogeneously dispersed benzene-based aerosols. Chemical Physics Letters, 2001, 338, 101-107.	1.2	205
79	A roadmap for electronic grade 2D materials. 2D Materials, 2019, 6, 022001.	2.0	205
80	Pure and doped boron nitride nanotubes. Materials Today, 2007, 10, 30-38.	8.3	204
81	Synthesis and characterization of long strands of nitrogen-doped single-walled carbon nanotubes. Chemical Physics Letters, 2006, 424, 345-352.	1.2	198
82	Towards new graphene materials: Doped graphene sheets and nanoribbons. Materials Letters, 2012, 78, 209-218.	1.3	196
83	Intervalley scattering by acoustic phonons in two-dimensional MoS ₂ revealed by double-resonance Raman spectroscopy. Nature Communications, 2017, 8, 14670.	5.8	196
84	CVD-grown monolayered MoS ₂ as an effective photosensor operating at low-voltage. 2D Materials, 2014, 1, 011004.	2.0	195
85	Heterodoped Nanotubes: Theory, Synthesis, and Characterization of Phosphorus~Nitrogen Doped Multiwalled Carbon Nanotubes. ACS Nano, 2008, 2, 441-448.	7.3	192
86	Dislocation motion and grain boundary migration in two-dimensional tungsten disulphide. Nature Communications, 2014, 5, 4867.	5.8	192
87	Wetting of Mono and Few-Layered WS ₂ and MoS ₂ Films Supported on Si/SiO ₂ Substrates. ACS Nano, 2015, 9, 3023-3031.	7.3	186
88	Fullerene Coalescence in Nanopeapods: A Path to Novel Tubular Carbon. Nano Letters, 2003, 3, 1037-1042.	4.5	185
89	Metallic and ferromagnetic edges in molybdenum disulfide nanoribbons. Nanotechnology, 2009, 20, 325703.	1.3	185
90	Rice Husk-Derived Graphene with Nano-Sized Domains and Clean Edges. Small, 2014, 10, 2766-2770.	5.2	181

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91	Synthesis of thick and crystalline nanotube arrays by spray pyrolysis. Applied Physics Letters, 2000, 77, 3385-3387.	1.5	179
92	Fabrication of vapor and gas sensors using films of aligned CNx nanotubes. Chemical Physics Letters, 2004, 386, 137-143.	1.2	178
93	Ultrasensitive gas detection of large-area boron-doped graphene. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 14527-14532.	3.3	177
94	Non-oxidative intercalation and exfoliation of graphite by Brønsted acids. Nature Chemistry, 2014, 6, 957-963.	6.6	175
95	Microstructural changes induced in α -stacked cuprous-carbon nanofibers by heat treatment. Carbon, 2003, 41, 1941-1947.	5.4	174
96	Ultrasensitive molecular sensor using N-doped graphene through enhanced Raman scattering. Science Advances, 2016, 2, e1600322.	4.7	174
97	Curved nanostructured materials. New Journal of Physics, 2003, 5, 126-126.	1.2	170
98	Thermal stability studies of CVD-grown graphene nanoribbons: Defect annealing and loop formation. Chemical Physics Letters, 2009, 469, 177-182.	1.2	170
99	Super-stretchable Graphene Oxide Macroscopic Fibers with Outstanding Knotability Fabricated by Dry Film Scrolling. ACS Nano, 2014, 8, 5959-5967.	7.3	170
100	Production and Characterization of Single-Crystal FeCo Nanowires Inside Carbon Nanotubes. Nano Letters, 2005, 5, 467-472.	4.5	167
101	Synthetic routes to nanoscale BxCyNz architectures. Carbon, 2002, 40, 1665-1684.	5.4	164
102	Synthesis of Mesoporous BN and BCN Exhibiting Large Surface Areas via Templating Methods. Chemistry of Materials, 2005, 17, 5887-5890.	3.2	164
103	Low-temperature Synthesis of Heterostructures of Transition Metal Dichalcogenide Alloys ($W_xMo_{1-x}S_2$) and Graphene with Superior Catalytic Performance for Hydrogen Evolution. ACS Nano, 2017, 11, 5103-5112.	7.3	157
104	A rapid and label-free platform for virus capture and identification from clinical samples. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 895-901.	3.3	157
105	Tungsten oxide tree-like structures. Chemical Physics Letters, 1999, 309, 327-334.	1.2	152
106	Hydrogen storage in nanoporous carbon materials: myth and facts. Physical Chemistry Chemical Physics, 2007, 9, 1786-1792.	1.3	151
107	Novel nanotubes and encapsulated nanowires. Applied Physics A: Materials Science and Processing, 1998, 66, 307-317.	1.1	150
108	Graphitic cones in palladium catalysed carbon nanofibres. Chemical Physics Letters, 2001, 343, 241-250.	1.2	150

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109	Magnetic Behavior in Zinc Oxide Zigzag Nanoribbons. <i>Nano Letters</i> , 2008, 8, 1562-1565.	4.5	150
110	Graphene Shape Control by Multistage Cutting and Transfer. <i>Advanced Materials</i> , 2009, 21, 4487-4491.	11.1	149
111	Wafer-Scale Epitaxial Growth of Unidirectional WS ₂ Monolayers on Sapphire. <i>ACS Nano</i> , 2021, 15, 2532-2541.	7.3	149
112	Efficient Anchoring of Silver Nanoparticles on N-Doped Carbon Nanotubes. <i>Small</i> , 2006, 2, 346-350.	5.2	143
113	Building Complex Hybrid Carbon Architectures by Covalent Interconnections: Graphene–Nanotube Hybrids and More. <i>ACS Nano</i> , 2014, 8, 4061-4069.	7.3	140
114	Defect Engineering and Surface Functionalization of Nanocarbons for Metal-Free Catalysis. <i>Advanced Materials</i> , 2019, 31, e1805717.	11.1	139
115	Enhanced Electron Field Emission in B-doped Carbon Nanotubes. <i>Nano Letters</i> , 2002, 2, 1191-1195.	4.5	136
116	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
117	Synthesis, Electronic Structure, and Raman Scattering of Phosphorus-Doped Single-Wall Carbon Nanotubes. <i>Nano Letters</i> , 2009, 9, 2267-2272.	4.5	134
118	Nanotubes: A Revolution in Materials Science and Electronics. <i>Topics in Current Chemistry</i> , 1999, , 189-234.	4.0	133
119	Observation of magnetic edge state in graphene nanoribbons. <i>Physical Review B</i> , 2010, 81, .	1.1	132
120	Selective Co-catalysed growth of novel MgO fishbone fractal nanostructures. <i>Chemical Physics Letters</i> , 2001, 347, 337-343.	1.2	130
121	Angstrom-Size Defect Creation and Ionic Transport through Pores in Single-Layer MoS ₂ . <i>Nano Letters</i> , 2018, 18, 1651-1659.	4.5	129
122	Novel nanoscale gas containers: encapsulation of N ₂ in CN _x nanotubes. <i>Chemical Communications</i> , 2000, , 2335-2336.	2.2	128
123	Nanotubes unzipped. <i>Nature</i> , 2009, 458, 845-846.	13.7	128
124	Resonance effects on the Raman spectra of graphene superlattices. <i>Physical Review B</i> , 2013, 88, .	1.1	128
125	Nanotube composites: novel SiO ₂ coated carbon nanotubes Electronic supplementary information (ESI) available: TGA studies, SEM image of an MWNT/SiO _x composite after TEM measurement, and mechanical properties. See http://www.rsc.org/suppdata/cc/b1/b109441f/ . <i>Chemical Communications</i> , 2002, , 34-35.	2.2	125
126	Tellurium-Assisted Low-Temperature Synthesis of MoS ₂ and WS ₂ Monolayers. <i>ACS Nano</i> , 2015, 9, 11658-11666.	7.3	123

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127	Extraordinary toughening enhancement and flexural strength in Si ₃ N ₄ composites using graphene sheets. <i>Journal of the European Ceramic Society</i> , 2014, 34, 161-169.	2.8	122
128	Electrochemical Characterization of Liquid Phase Exfoliated Two-Dimensional Layers of Molybdenum Disulfide. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 2125-2130.	4.0	121
129	On the electronic structure of WS ₂ nanotubes. <i>Solid State Communications</i> , 2000, 114, 245-248.	0.9	120
130	Boron-Mediated Growth of Long Helicity-Selected Carbon Nanotubes. <i>Physical Review Letters</i> , 1999, 83, 5078-5081.	2.9	119
131	Carbon doping of WS ₂ monolayers: Bandgap reduction and p-type doping transport. <i>Science Advances</i> , 2019, 5, eaav5003.	4.7	119
132	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
133	Large-Area Si-Doped Graphene: Controllable Synthesis and Enhanced Molecular Sensing. <i>Advanced Materials</i> , 2014, 26, 7593-7599.	11.1	116
134	Hysteresis shift in Fe-filled carbon nanotubes due to ⁵⁷ Fe. <i>Physical Review B</i> , 2002, 65, .	1.1	114
135	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
136	Aligned CN _x nanotubes by pyrolysis of ferrocene/C ₆₀ under NH ₃ atmosphere. <i>Applied Physics Letters</i> , 2000, 77, 1807.	1.5	112
137	Boron-doping effects in carbon nanotubes. <i>Journal of Materials Chemistry</i> , 2000, 10, 1425-1429.	6.7	112
138	Extreme-Performance Rubber Nanocomposites for Probing and Excavating Deep Oil Resources Using Multi-Walled Carbon Nanotubes. <i>Advanced Functional Materials</i> , 2008, 18, 3403-3409.	7.8	112
139	The Rise of Two-Dimensional Materials. <i>Accounts of Chemical Research</i> , 2015, 48, 1-2.	7.6	111
140	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
141	Three-Dimensional Nitrogen-Doped Multiwall Carbon Nanotube Sponges with Tunable Properties. <i>Nano Letters</i> , 2013, 13, 5514-5520.	4.5	110
142	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
143	Production of WS ₂ Nanotubes. <i>Chemistry of Materials</i> , 2000, 12, 1190-1194.	3.2	108
144	Intrinsic carrier mobility of multi-layered MoS ₂ field-effect transistors on SiO ₂ . <i>Applied Physics Letters</i> , 2013, 102, 123105.	1.5	108

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145	3D Silicon oxide nanostructures: from nanoflowers to radiolaria. <i>Journal of Materials Chemistry</i> , 1998, 8, 1859-1864.	6.7	107
146	Hall and field-effect mobilities in few layered p-WSe ₂ field-effect transistors. <i>Scientific Reports</i> , 2015, 5, 8979.	1.6	107
147	Two-dimensional transition metal dichalcogenides: Clusters, ribbons, sheets and more. <i>Nano Today</i> , 2015, 10, 559-592.	6.2	107
148	Defect-Controlled Nucleation and Orientation of WSe ₂ on hBN: A Route to Single-Crystal Epitaxial Monolayers. <i>ACS Nano</i> , 2019, 13, 3341-3352.	7.3	107
149	SiO _x -coating of carbon nanotubes at room temperature. <i>Chemical Physics Letters</i> , 2001, 339, 41-46.	1.2	106
150	In situ processing of electrically conducting graphene/SiC nanocomposites. <i>Journal of the European Ceramic Society</i> , 2013, 33, 1665-1674.	2.8	105
151	One-dimensional extended lines of divacancy defects in graphene. <i>Nanoscale</i> , 2011, 3, 2868.	2.8	104
152	Monolayer Vanadium-Doped Tungsten Disulfide: A Room-Temperature Dilute Magnetic Semiconductor. <i>Advanced Science</i> , 2020, 7, 2001174.	5.6	104
153	Extreme Superheating and Supercooling of Encapsulated Metals in Fullerene-like Shells. <i>Physical Review Letters</i> , 2003, 90, 185502.	2.9	103
154	Enhanced thermal conductivity of carbon fiber/phenolic resin composites by the introduction of carbon nanotubes. <i>Applied Physics Letters</i> , 2007, 90, 093125.	1.5	103
155	Formation and Interlayer Decoupling of Colloidal MoSe ₂ Nanoflowers. <i>Chemistry of Materials</i> , 2015, 27, 3167-3175.	3.2	103
156	Pentagonal rings and nitrogen excess in fullerene-based BN cages and nanotube caps. <i>Chemical Physics Letters</i> , 1999, 299, 359-367.	1.2	102
157	Phosphorus and phosphorus-nitrogen doped carbon nanotubes for ultrasensitive and selective molecular detection. <i>Nanoscale</i> , 2011, 3, 1008-1013.	2.8	102
158	Monolayer WS ₂ Nanopores for DNA Translocation with Light-Adjustable Sizes. <i>ACS Nano</i> , 2017, 11, 1937-1945.	7.3	102
159	Preparation of aligned carbon nanotubes catalysed by laser-etched cobalt thin films. <i>Chemical Physics Letters</i> , 1998, 285, 299-305.	1.2	101
160	Fabrication of High-Purity, Double-Walled Carbon Nanotube Buckypaper. <i>Chemical Vapor Deposition</i> , 2006, 12, 327-330.	1.4	101
161	High-performance multi-functional reverse osmosis membranes obtained by carbon nanotube-polyamide nanocomposite. <i>Scientific Reports</i> , 2015, 5, 13562.	1.6	101
162	Metal to Insulator Quantum-Phase Transition in Few-Layered ReS ₂ . <i>Nano Letters</i> , 2015, 15, 8377-8384.	4.5	101

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163	Sharpening the Chemical Scissors to Unzip Carbon Nanotubes: Crystalline Graphene Nanoribbons. ACS Nano, 2010, 4, 1775-1781.	7.3	100
164	Universal <i>In Situ</i> Substitutional Doping of Transition Metal Dichalcogenides by Liquid-Phase Precursor-Assisted Synthesis. ACS Nano, 2020, 14, 4326-4335.	7.3	100
165	Synthesis of macroporous poly(acrylic acid)-carbon nanotube composites by frontal polymerization in deep-eutectic solvents. Journal of Materials Chemistry A, 2013, 1, 3970.	5.2	97
166	Covalent three-dimensional networks of graphene and carbon nanotubes: synthesis and environmental applications. Nano Today, 2017, 12, 116-135.	6.2	97
167	Novel NbS ₂ metallic nanotubes. Solid State Communications, 2000, 115, 635-638.	0.9	95
168	Distinct photoluminescence and Raman spectroscopy signatures for identifying highly crystalline WS ₂ monolayers produced by different growth methods. Journal of Materials Research, 2016, 31, 931-944.	1.2	95
169	Magnetism in Fe-based and carbon nanostructures: Theory and applications. Solid State Sciences, 2006, 8, 303-320.	1.5	94
170	Growth and Tunable Surface Wettability of Vertical MoS ₂ Layers for Improved Hydrogen Evolution Reactions. ACS Applied Materials & Interfaces, 2016, 8, 22190-22195.	4.0	94
171	Cutting Single-Walled Carbon Nanotubes with an Electron Beam: Evidence for Atom Migration Inside Nanotubes. Small, 2005, 1, 953-956.	5.2	93
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