# **Mauricio Terrones**

#### List of Publications by Citations

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694 papers 56,038 citations

116 h-index 216 g-index

751 ext. papers

62,022 ext. citations

9.2 avg, IF

7.57 L-index

#	Paper	IF	Citations
694	Progress, challenges, and opportunities in two-dimensional materials beyond graphene. <i>ACS Nano</i> , <b>2013</b> , 7, 2898-926	16.7	3414
693	Recent Advances in Two-Dimensional Materials beyond Graphene. ACS Nano, 2015, 9, 11509-39	16.7	1581
692	Vertical and in-plane heterostructures from WS2/MoS2 monolayers. <i>Nature Materials</i> , <b>2014</b> , 13, 1135-42	227	1580
691	Extraordinary room-temperature photoluminescence in triangular WS2 monolayers. <i>Nano Letters</i> , <b>2013</b> , 13, 3447-54	11.5	1145
690	Identification of individual and few layers of WS2 using Raman Spectroscopy. <i>Scientific Reports</i> , <b>2013</b> , 3,	4.9	911
689	Transition metal dichalcogenides and beyond: synthesis, properties, and applications of single- and few-layer nanosheets. <i>Accounts of Chemical Research</i> , <b>2015</b> , 48, 56-64	24.3	864
688	Science and Technology of the Twenty-First Century: Synthesis, Properties, and Applications of Carbon Nanotubes. <i>Annual Review of Materials Research</i> , <b>2003</b> , 33, 419-501	12.8	773
687	Evaluating the characteristics of multiwall carbon nanotubes. <i>Carbon</i> , <b>2011</b> , 49, 2581-2602	10.4	769
686	Graphene and graphite nanoribbons: Morphology, properties, synthesis, defects and applications. <i>Nano Today</i> , <b>2010</b> , 5, 351-372	17.9	695
685	Controlled production of aligned-nanotube bundles. <i>Nature</i> , <b>1997</b> , 388, 52-55	50.4	690
684	Identification of Electron Donor States in N-Doped Carbon Nanotubes. <i>Nano Letters</i> , <b>2001</b> , 1, 457-460	11.5	659
683	Controlled formation of sharp zigzag and armchair edges in graphitic nanoribbons. <i>Science</i> , <b>2009</b> , 323, 1701-5	33.3	592
682	Molecular junctions by joining single-walled carbon nanotubes. <i>Physical Review Letters</i> , <b>2002</b> , 89, 07550	57.4	584
681	Defect engineering of two-dimensional transition metal dichalcogenides. 2D Materials, <b>2016</b> , 3, 022002	5.9	538
680	Bulk production of a new form of sp(2) carbon: crystalline graphene nanoribbons. <i>Nano Letters</i> , <b>2008</b> , 8, 2773-8	11.5	524
679	Nitrogen-doped graphene: beyond single substitution and enhanced molecular sensing. <i>Scientific Reports</i> , <b>2012</b> , 2, 586	4.9	517
678	Nanotechnology: 'buckypaper' from coaxial nanotubes. <i>Nature</i> , <b>2005</b> , 433, 476	50.4	503

### (2009-2003)

677	Selective Attachment of Gold Nanoparticles to Nitrogen-Doped Carbon Nanotubes. <i>Nano Letters</i> , <b>2003</b> , 3, 275-277	11.5	486	
676	Photosensor Device Based on Few-Layered WS2 Films. <i>Advanced Functional Materials</i> , <b>2013</b> , 23, 5511-5	5513.6	480	
675	Fast and Efficient Preparation of Exfoliated 2H MoS2 Nanosheets by Sonication-Assisted Lithium Intercalation and Infrared Laser-Induced 1T to 2H Phase Reversion. <i>Nano Letters</i> , <b>2015</b> , 15, 5956-60	11.5	472	
674	Controlled synthesis and transfer of large-area WS2 sheets: from single layer to few layers. <i>ACS Nano</i> , <b>2013</b> , 7, 5235-42	16.7	453	
673	Effect of defects on the intrinsic strength and stiffness of graphene. <i>Nature Communications</i> , <b>2014</b> , 5, 3186	17.4	435	
672	Structure and electronic properties of MoS2 nanotubes. <i>Physical Review Letters</i> , <b>2000</b> , 85, 146-9	7.4	432	
671	Beyond Graphene: Progress in Novel Two-Dimensional Materials and van der Waals Solids. <i>Annual Review of Materials Research</i> , <b>2015</b> , 45, 1-27	12.8	430	
670	Ultrahigh humidity sensitivity of graphene oxide. Scientific Reports, 2013, 3, 2714	4.9	427	
669	Coalescence of single-walled carbon nanotubes. <i>Science</i> , <b>2000</b> , 288, 1226-9	33.3	425	
668	New metallic allotropes of planar and tubular carbon. <i>Physical Review Letters</i> , <b>2000</b> , 84, 1716-9	7.4	407	
667	Three-dimensionally bonded spongy graphene material with super compressive elasticity and near-zero Poisson's ratio. <i>Nature Communications</i> , <b>2015</b> , 6, 6141	17.4	389	
666	The role of defects and doping in 2D graphene sheets and 1D nanoribbons. <i>Reports on Progress in Physics</i> , <b>2012</b> , 75, 062501	14.4	383	
665	Band gap engineering and layer-by-layer mapping of selenium-doped molybdenum disulfide. <i>Nano Letters</i> , <b>2014</b> , 14, 442-9	11.5	378	
664	Novel hetero-layered materials with tunable direct band gaps by sandwiching different metal disulfides and diselenides. <i>Scientific Reports</i> , <b>2013</b> , 3, 1549	4.9	378	
663	N-doping and coalescence of carbon nanotubes: synthesis and electronic properties. <i>Applied Physics A: Materials Science and Processing</i> , <b>2002</b> , 74, 355-361	2.6	367	
662	Graphene edges: a review of their fabrication and characterization. <i>Nanoscale</i> , <b>2011</b> , 3, 86-95	7.7	353	
661	Structural characterization of cup-stacked-type nanofibers with an entirely hollow core. <i>Applied Physics Letters</i> , <b>2002</b> , 80, 1267-1269	3.4	329	
660	Ex-MWNTs: graphene sheets and ribbons produced by lithium intercalation and exfoliation of carbon nanotubes. <i>Nano Letters</i> , <b>2009</b> , 9, 1527-33	11.5	326	

659	Protein immobilization on carbon nanotubes via a two-step process of diimide-activated amidation. Journal of Materials Chemistry, <b>2004</b> , 14, 37		317
658	Biocompatibility and toxicological studies of carbon nanotubes doped with nitrogen. <i>Nano Letters</i> , <b>2006</b> , 6, 1609-16	11.5	305
657	Covalently bonded three-dimensional carbon nanotube solids via boron induced nanojunctions. <i>Scientific Reports</i> , <b>2012</b> , 2, 363	4.9	300
656	2D materials advances: from large scale synthesis and controlled heterostructures to improved characterization techniques, defects and applications. <i>2D Materials</i> , <b>2016</b> , 3, 042001	5.9	297
655	New first order Raman-active modes in few layered transition metal dichalcogenides. <i>Scientific Reports</i> , <b>2014</b> , 4, 4215	4.9	289
654	Manganese Doping of Monolayer MoS2: The Substrate Is Critical. <i>Nano Letters</i> , <b>2015</b> , 15, 6586-91	11.5	285
653	Longitudinal cutting of pure and doped carbon nanotubes to form graphitic nanoribbons using metal clusters as nanoscalpels. <i>Nano Letters</i> , <b>2010</b> , 10, 366-72	11.5	284
652	Field-effect transistors based on few-layered \( \text{MoTe}(2). \) ACS Nano, <b>2014</b> , 8, 5911-20	16.7	281
651	Flexible piezoelectric ZnO-paper nanocomposite strain sensor. <i>Small</i> , <b>2010</b> , 6, 1641-6	11	281
650	Enhanced magnetic coercivities in Fe nanowires. <i>Applied Physics Letters</i> , <b>1999</b> , 75, 3363-3365	3.4	276
649	Metal particle catalysed production of nanoscale BN structures. <i>Chemical Physics Letters</i> , <b>1996</b> , 259, 568	3- <u>25</u> ₹3	256
648	Carbon nanotubes as high-pressure cylinders and nanoextruders. <i>Science</i> , <b>2006</b> , 312, 1199-202	33.3	243
647	Carbon Nanotubes and Related Nanomaterials: Critical Advances and Challenges for Synthesis toward Mainstream Commercial Applications. <i>ACS Nano</i> , <b>2018</b> , 12, 11756-11784	16.7	239
646	Condensed-phase nanotubes. <i>Nature</i> , <b>1995</b> , 377, 687-687	50.4	238
645	Electron and phonon renormalization near charged defects in carbon nanotubes. <i>Nature Materials</i> , <b>2008</b> , 7, 878-83	27	236
644	Spectroscopic signatures for interlayer coupling in MoS2-WSe2 van der Waals stacking. <i>ACS Nano</i> , <b>2014</b> , 8, 9649-56	16.7	233
643	Carbon Nitride Nanocomposites: Formation of Aligned CxNy Nanofibers. <i>Advanced Materials</i> , <b>1999</b> , 11, 655-658	24	231
642	Efficient route to large arrays of CNx nanofibers by pyrolysis of ferrocene/melamine mixtures.  Applied Physics Letters, <b>1999</b> , 75, 3932-3934	3.4	229

## (2007-2012)

641	Defects and impurities in graphene-like materials. <i>Materials Today</i> , <b>2012</b> , 15, 98-109	21.8	228
640	Effective NaCl and dye rejection of hybrid graphene oxide/graphene layered membranes. <i>Nature Nanotechnology</i> , <b>2017</b> , 12, 1083-1088	28.7	227
639	Nanotubes in a flashignition and reconstruction. <i>Science</i> , <b>2002</b> , 296, 705	33.3	221
638	Direct synthesis of van der Waals solids. ACS Nano, <b>2014</b> , 8, 3715-23	16.7	218
637	Toxicity Evaluation for Safe Use of Nanomaterials: Recent Achievements and Technical Challenges. <i>Advanced Materials</i> , <b>2009</b> , 21, 1549-1559	24	216
636	Extraordinary Second Harmonic Generation in tungsten disulfide monolayers. <i>Scientific Reports</i> , <b>2014</b> , 4, 5530	4.9	214
635	Raman spectroscopy of boron-doped single-layer graphene. ACS Nano, 2012, 6, 6293-300	16.7	209
634	Carbon nanotubes: synthesis and properties, electronic devices and other emerging applications. <i>International Materials Reviews</i> , <b>2004</b> , 49, 325-377	16.1	209
633	Carbon science in 2016: Status, challenges and perspectives. <i>Carbon</i> , <b>2016</b> , 98, 708-732	10.4	200
632	New direction in nanotube science. <i>Materials Today</i> , <b>2004</b> , 7, 30-45	21.8	200
632	New direction in nanotube science. <i>Materials Today</i> , <b>2004</b> , 7, 30-45  Pyrolytically grown BxCyNz nanomaterials: nanofibres and nanotubes. <i>Chemical Physics Letters</i> , <b>1996</b> , 257, 576-582	21.8	200
	Pyrolytically grown BxCyNz nanomaterials: nanofibres and nanotubes. <i>Chemical Physics Letters</i> ,		
631	Pyrolytically grown BxCyNz nanomaterials: nanofibres and nanotubes. <i>Chemical Physics Letters</i> , <b>1996</b> , 257, 576-582	2.5	200
631	Pyrolytically grown BxCyNz nanomaterials: nanofibres and nanotubes. <i>Chemical Physics Letters</i> , <b>1996</b> , 257, 576-582  Electrolytic formation of carbon nanostructures. <i>Chemical Physics Letters</i> , <b>1996</b> , 262, 161-166  In situ nucleation of carbon nanotubes by the injection of carbon atoms into metal particles. <i>Nature</i>	2.5	<b>2</b> 00
631 630 629	Pyrolytically grown BxCyNz nanomaterials: nanofibres and nanotubes. <i>Chemical Physics Letters</i> , <b>1996</b> , 257, 576-582  Electrolytic formation of carbon nanostructures. <i>Chemical Physics Letters</i> , <b>1996</b> , 262, 161-166  In situ nucleation of carbon nanotubes by the injection of carbon atoms into metal particles. <i>Nature Nanotechnology</i> , <b>2007</b> , 2, 307-11  Selective and Efficient Impregnation of Metal Nanoparticles on Cup-Stacked-Type Carbon	2.5 2.5 28.7	200 196 195
631 630 629 628	Pyrolytically grown BxCyNz nanomaterials: nanofibres and nanotubes. <i>Chemical Physics Letters</i> , 1996, 257, 576-582  Electrolytic formation of carbon nanostructures. <i>Chemical Physics Letters</i> , 1996, 262, 161-166  In situ nucleation of carbon nanotubes by the injection of carbon atoms into metal particles. <i>Nature Nanotechnology</i> , 2007, 2, 307-11  Selective and Efficient Impregnation of Metal Nanoparticles on Cup-Stacked-Type Carbon Nanofibers. <i>Nano Letters</i> , 2003, 3, 723-726  Electronic transport and mechanical properties of phosphorus- and phosphorus-nitrogen-doped	2.5 2.5 28.7	200 196 195 193
631 630 629 628	Pyrolytically grown BxCyNz nanomaterials: nanofibres and nanotubes. <i>Chemical Physics Letters</i> , 1996, 257, 576-582  Electrolytic formation of carbon nanostructures. <i>Chemical Physics Letters</i> , 1996, 262, 161-166  In situ nucleation of carbon nanotubes by the injection of carbon atoms into metal particles. <i>Nature Nanotechnology</i> , 2007, 2, 307-11  Selective and Efficient Impregnation of Metal Nanoparticles on Cup-Stacked-Type Carbon Nanofibers. <i>Nano Letters</i> , 2003, 3, 723-726  Electronic transport and mechanical properties of phosphorus- and phosphorus-nitrogen-doped carbon nanotubes. <i>ACS Nano</i> , 2009, 3, 1913-21  Covalent 2D and 3D networks from 1D nanostructures: designing new materials. <i>Nano Letters</i> , 2007	2.5 2.5 28.7 11.5	200 196 195 193 191

623	Thermal stability and structural changes of double-walled carbon nanotubes by heat treatment. <i>Chemical Physics Letters</i> , <b>2004</b> , 398, 87-92	2.5	185
622	Applications of carbon nanotubes in the twenty-first century. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , <b>2004</b> , 362, 2223-38	3	185
621	Conducting linear chains of sulphur inside carbon nanotubes. <i>Nature Communications</i> , <b>2013</b> , 4, 2162	17.4	176
620	Synthesis and characterization of long strands of nitrogen-doped single-walled carbon nanotubes. <i>Chemical Physics Letters</i> , <b>2006</b> , 424, 345-352	2.5	173
619	Pure and doped boron nitride nanotubes. <i>Materials Today</i> , <b>2007</b> , 10, 30-38	21.8	171
618	CVD-grown monolayered MoS 2 as an effective photosensor operating at low-voltage. <i>2D Materials</i> , <b>2014</b> , 1, 011004	5.9	170
617	Towards new graphene materials: Doped graphene sheets and nanoribbons. <i>Materials Letters</i> , <b>2012</b> , 78, 209-218	3.3	168
616	Dislocation motion and grain boundary migration in two-dimensional tungsten disulphide. <i>Nature Communications</i> , <b>2014</b> , 5, 4867	17.4	167
615	Fullerene Coalescence in Nanopeapods: A Path to Novel Tubular Carbon. <i>Nano Letters</i> , <b>2003</b> , 3, 1037-1	<b>042</b> .5	166
614	Controlled Exfoliation of MoS2 Crystals into Trilayer Nanosheets. <i>Journal of the American Chemical Society</i> , <b>2016</b> , 138, 5143-9	16.4	166
613	Heterodoped nanotubes: theory, synthesis, and characterization of phosphorus-nitrogen doped multiwalled carbon nanotubes. <i>ACS Nano</i> , <b>2008</b> , 2, 441-8	16.7	165
612	Metallic and ferromagnetic edges in molybdenum disulfide nanoribbons. <i>Nanotechnology</i> , <b>2009</b> , 20, 32	53043	164
611	Synthesis of thick and crystalline nanotube arrays by spray pyrolysis. <i>Applied Physics Letters</i> , <b>2000</b> , 77, 3385-3387	3.4	163
610	Fabrication of vapor and gas sensors using films of aligned CNx nanotubes. <i>Chemical Physics Letters</i> , <b>2004</b> , 386, 137-143	2.5	159
609	Microstructural changes induced in Btacked cuplcarbon nanofibers by heat treatment. <i>Carbon</i> , <b>2003</b> , 41, 1941-1947	10.4	159
608	Wetting of mono and few-layered WS2 and MoS2 films supported on Si/SiO2 substrates. <i>ACS Nano</i> , <b>2015</b> , 9, 3023-31	16.7	156
607	Optical identification of sulfur vacancies: Bound excitons at the edges of monolayer tungsten disulfide. <i>Science Advances</i> , <b>2017</b> , 3, e1602813	14.3	154
606	Non-oxidative intercalation and exfoliation of graphite by Brfisted acids. <i>Nature Chemistry</i> , <b>2014</b> , 6, 957-63	17.6	154

### (2016-2014)

605	Excited excitonic states in 1L, 2L, 3L, and bulk WSe2 observed by resonant Raman spectroscopy. <i>ACS Nano</i> , <b>2014</b> , 8, 9629-35	16.7	154
604	Super-stretchable graphene oxide macroscopic fibers with outstanding knotability fabricated by dry film scrolling. <i>ACS Nano</i> , <b>2014</b> , 8, 5959-67	16.7	150
603	Production and characterization of single-crystal FeCo nanowires inside carbon nanotubes. <i>Nano Letters</i> , <b>2005</b> , 5, 467-72	11.5	150
602	Thermal stability studies of CVD-grown graphene nanoribbons: Defect annealing and loop formation. <i>Chemical Physics Letters</i> , <b>2009</b> , 469, 177-182	2.5	147
601	Synthesis of Mesoporous BN and BCN Exhibiting Large Surface Areas via Templating Methods. <i>Chemistry of Materials</i> , <b>2005</b> , 17, 5887-5890	9.6	147
600	Ultrasensitive gas detection of large-area boron-doped graphene. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2015</b> , 112, 14527-32	11.5	146
599	Tungsten oxide tree-like structures. Chemical Physics Letters, 1999, 309, 327-334	2.5	145
598	Intervalley scattering by acoustic phonons in two-dimensional MoS revealed by double-resonance Raman spectroscopy. <i>Nature Communications</i> , <b>2017</b> , 8, 14670	17.4	141
597	Curved nanostructured materials. New Journal of Physics, 2003, 5, 126-126	2.9	140
596	Magnetic behavior in zinc oxide zigzag nanoribbons. <i>Nano Letters</i> , <b>2008</b> , 8, 1562-5	11.5	138
595	Efficient anchoring of silver nanoparticles on N-doped carbon nanotubes. <i>Small</i> , <b>2006</b> , 2, 346-50	11	138
594	Graphitic cones in palladium catalysed carbon nanofibres. <i>Chemical Physics Letters</i> , <b>2001</b> , 343, 241-250	2.5	138
593	Novel nanotubes and encapsulated nanowires. <i>Applied Physics A: Materials Science and Processing</i> , <b>1998</b> , 66, 307-317	2.6	136
592	Synthetic routes to nanoscale BxCyNz architectures. <i>Carbon</i> , <b>2002</b> , 40, 1665-1684	10.4	136
591	Graphene Shape Control by Multistage Cutting and Transfer. Advanced Materials, 2009, 21, 4487-4491	24	133
590	A roadmap for electronic grade 2D materials. 2D Materials, <b>2019</b> , 6, 022001	5.9	133
589	Rice husk-derived graphene with nano-sized domains and clean edges. <i>Small</i> , <b>2014</b> , 10, 2766-70, 2740	11	130
588	Ultrasensitive molecular sensor using N-doped graphene through enhanced Raman scattering. <i>Science Advances</i> , <b>2016</b> , 2, e1600322	14.3	125

587	Enhanced Electron Field Emission in B-doped Carbon Nanotubes. <i>Nano Letters</i> , <b>2002</b> , 2, 1191-1195	11.5	125
586	Hydrogen storage in nanoporous carbon materials: myth and facts. <i>Physical Chemistry Chemical Physics</i> , <b>2007</b> , 9, 1786-92	3.6	124
585	Synthesis, electronic structure, and Raman scattering of phosphorus-doped single-wall carbon nanotubes. <i>Nano Letters</i> , <b>2009</b> , 9, 2267-72	11.5	121
584	Selective Co-catalysed growth of novel MgO fishbone fractal nanostructures. <i>Chemical Physics Letters</i> , <b>2001</b> , 347, 337-343	2.5	121
583	Observation of magnetic edge state in graphene nanoribbons. <i>Physical Review B</i> , <b>2010</b> , 81,	3.3	120
582	Building complex hybrid carbon architectures by covalent interconnections: graphene-nanotube hybrids and more. <i>ACS Nano</i> , <b>2014</b> , 8, 4061-9	16.7	119
581	Novel nanoscale gas containers: encapsulation of N2 in CNx nanotubes. <i>Chemical Communications</i> , <b>2000</b> , 2335-2336	5.8	118
580	Low-temperature Synthesis of Heterostructures of Transition Metal Dichalcogenide Alloys (WMoS) and Graphene with Superior Catalytic Performance for Hydrogen Evolution. <i>ACS Nano</i> , <b>2017</b> , 11, 5103-5	1 <sup>1627</sup>	116
579	Nanotube composites: novel SiO2 coated carbon nanotubes. <i>Chemical Communications</i> , <b>2002</b> , 34-5	5.8	114
578	Extraordinary toughening enhancement and flexural strength in Si3N4 composites using graphene sheets. <i>Journal of the European Ceramic Society</i> , <b>2014</b> , 34, 161-169	6	108
577	Hysteresis shift in Fe-filled carbon nanotubes due to Fe. <i>Physical Review B</i> , <b>2002</b> , 65,	3.3	108
576	Boron-Mediated Growth of Long Helicity-Selected Carbon Nanotubes. <i>Physical Review Letters</i> , <b>1999</b> , 83, 5078-5081	7.4	108
575	Tellurium-Assisted Low-Temperature Synthesis of MoS2 and WS2 Monolayers. ACS Nano, 2015, 9, 1165	8 <u>166</u> 7	107
574	Aligned CNx nanotubes by pyrolysis of ferrocene/C60 under NH3 atmosphere. <i>Applied Physics Letters</i> , <b>2000</b> , 77, 1807	3.4	107
573	Nanotubes: A Revolution in Materials Science and Electronics. <i>Topics in Current Chemistry</i> , <b>1999</b> , 189-23	4	106
57²	Resonance effects on the Raman spectra of graphene superlattices. <i>Physical Review B</i> , <b>2013</b> , 88,	3.3	104
571	3D Silicon oxide nanostructures: from nanoflowers to radiolaria. <i>Journal of Materials Chemistry</i> , <b>1998</b> , 8, 1859-1864		102
570	Chemical vapor deposition synthesis of N-, P-, and Si-doped single-walled carbon nanotubes. <i>ACS Nano</i> , <b>2010</b> , 4, 1696-702	16.7	101

### (2006-2008)

569	Extreme-Performance Rubber Nanocomposites for Probing and Excavating Deep Oil Resources Using Multi-Walled Carbon Nanotubes. <i>Advanced Functional Materials</i> , <b>2008</b> , 18, 3403-3409	15.6	101	
568	Heterojunctions between metals and carbon nanotubes as ultimate nanocontacts. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2009</b> , 106, 4591-5	11.5	100	
567	In situ processing of electrically conducting graphene/SiC nanocomposites. <i>Journal of the European Ceramic Society</i> , <b>2013</b> , 33, 1665-1674	6	99	
566	Effects of 45-nm silver nanoparticles on coronary endothelial cells and isolated rat aortic rings. <i>Toxicology Letters</i> , <b>2009</b> , 191, 305-13	4.4	99	
565	A rapid and label-free platform for virus capture and identification from clinical samples. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2020</b> , 117, 895-901	11.5	99	
564	Intrinsic carrier mobility of multi-layered MoS2 field-effect transistors on SiO2. <i>Applied Physics Letters</i> , <b>2013</b> , 102, 123105	3.4	98	
563	Electrochemical characterization of liquid phase exfoliated two-dimensional layers of molybdenum disulfide. <i>ACS Applied Materials &amp; amp; Interfaces</i> , <b>2014</b> , 6, 2125-30	9.5	97	
562	Three-dimensional nitrogen-doped multiwall carbon nanotube sponges with tunable properties. <i>Nano Letters</i> , <b>2013</b> , 13, 5514-20	11.5	97	
561	SiOx-coating of carbon nanotubes at room temperature. <i>Chemical Physics Letters</i> , <b>2001</b> , 339, 41-46	2.5	97	
560	Boron-doping effects in carbon nanotubes. <i>Journal of Materials Chemistry</i> , <b>2000</b> , 10, 1425-1429		95	
559	Pentagonal rings and nitrogen excess in fullerene-based BN cages and nanotube caps. <i>Chemical Physics Letters</i> , <b>1999</b> , 299, 359-367	2.5	95	
558	Hall and field-effect mobilities in few layered p-WSelfield-effect transistors. <i>Scientific Reports</i> , <b>2015</b> , 5, 8979	4.9	94	
557	Preparation of aligned carbon nanotubes catalysed by laser-etched cobalt thin films. <i>Chemical Physics Letters</i> , <b>1998</b> , 285, 299-305	2.5	93	
556	On the electronic structure of WS2 nanotubes. <i>Solid State Communications</i> , <b>2000</b> , 114, 245-248	1.6	92	
555	Atypical Exciton-Phonon Interactions in WS2 and WSe2 Monolayers Revealed by Resonance Raman Spectroscopy. <i>Nano Letters</i> , <b>2016</b> , 16, 2363-8	11.5	91	
554	Large-area Si-doped graphene: controllable synthesis and enhanced molecular sensing. <i>Advanced Materials</i> , <b>2014</b> , 26, 7593-9	24	91	
553	Extreme superheating and supercooling of encapsulated metals in fullerenelike shells. <i>Physical Review Letters</i> , <b>2003</b> , 90, 185502	7.4	91	
552	Fabrication of High-Purity, Double-Walled Carbon Nanotube Buckypaper. <i>Chemical Vapor Deposition</i> , <b>2006</b> , 12, 327-330		90	

551	Defect Engineering and Surface Functionalization of Nanocarbons for Metal-Free Catalysis. <i>Advanced Materials</i> , <b>2019</b> , 31, e1805717	24	88
550	Magnetism in Fe-based and carbon nanostructures: Theory and applications. <i>Solid State Sciences</i> , <b>2006</b> , 8, 303-320	3.4	88
549	Production of WS2 Nanotubes. <i>Chemistry of Materials</i> , <b>2000</b> , 12, 1190-1194	9.6	88
548	Formation and Interlayer Decoupling of Colloidal MoSe2Nanoflowers. <i>Chemistry of Materials</i> , <b>2015</b> , 27, 3167-3175	9.6	86
547	Angstrom-Size Defect Creation and Ionic Transport through Pores in Single-Layer MoS. <i>Nano Letters</i> , <b>2018</b> , 18, 1651-1659	11.5	86
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244	Self-assembly of Si nanostructures. <i>Chemical Physics Letters</i> , <b>2000</b> , 322, 312-320	2.5	15
243	Raman spectroscopy revealing noble gas adsorption on single-walled carbon nanotube bundles. <i>Carbon</i> , <b>2018</b> , 127, 312-319	10.4	15
242	Transferrable polymeric carbon nitride/nitrogen-doped graphene films for solid state optoelectronics. <i>Carbon</i> , <b>2018</b> , 138, 69-75	10.4	15
241	. IEEE Nanotechnology Magazine, <b>2017</b> , 11, 18-32	1.7	14
240	Nanoscale doping heterogeneity in few-layer WSe 2 exfoliated onto noble metals revealed by correlated SPM and TERS imaging. <i>2D Materials</i> , <b>2018</b> , 5, 035003	5.9	14
239	Morphology-controlled fabrication of a three-dimensional mesoporous poly(vinyl alcohol) monolith through the incorporation of graphene oxide. <i>Carbon</i> , <b>2016</b> , 98, 334-342	10.4	14
238	Mitsui-7, heat-treated, and nitrogen-doped multi-walled carbon nanotubes elicit genotoxicity in human lung epithelial cells. <i>Particle and Fibre Toxicology</i> , <b>2019</b> , 16, 36	8.4	14
237	CO2 adsorption on crystalline graphitic nanostructures. <i>Journal of CO2 Utilization</i> , <b>2014</b> , 5, 60-65	7.6	14
236	3D Nanocomposites of Covalently Interconnected Multiwalled Carbon Nanotubes with SiC with Enhanced Thermal and Electrical Properties. <i>Advanced Functional Materials</i> , <b>2015</b> , 25, 4985-4993	15.6	14
235	Photodelignification of Eucalyptus grandis organosolv chemical pulp. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , <b>1996</b> , 94, 253-262	4.7	14
234	2D Materials for Universal Thermal Imaging of Micro- and Nanodevices: An Application to Gallium Oxide Electronics. <i>ACS Applied Electronic Materials</i> , <b>2020</b> , 2, 2945-2953	4	14
233	Potassium intercalated multiwalled carbon nanotubes. <i>Carbon</i> , <b>2016</b> , 105, 90-95	10.4	14
232	Defect-mediated selective hydrogenation of nitroarenes on nanostructured WS. <i>Chemical Science</i> , <b>2019</b> , 10, 10310-10317	9.4	14
231	Resonant Raman study on bulk and isolated graphitic nanoribbons. <i>Small</i> , <b>2009</b> , 5, 2698-702	11	13
230	Graphene oxide nanoplatelets of different crystallinity synthesized from helical-ribbon carbon nanofibers and multiwall carbon nanotubes. <i>Journal of Materials Research</i> , <b>2011</b> , 26, 2632-2641	2.5	13
229	Raman spectroscopy study of heat-treated and boron-doped double wall carbon nanotubes. <i>Physical Review B</i> , <b>2009</b> , 80,	3.3	13
228	. IEEE Nanotechnology Magazine, <b>2003</b> , 2, 349-354	2.6	13

227	Defect creation in WSe with a microsecond photoluminescence lifetime by focused ion beam irradiation. <i>Nanoscale</i> , <b>2020</b> , 12, 2047-2056	7.7	13
226	Phase Modulators Based on High Mobility Ambipolar ReSe Field-Effect Transistors. <i>Scientific Reports</i> , <b>2018</b> , 8, 12745	4.9	13
225	Photoluminescence Enhancement of Titanate Nanotubes by Insertion of Rare Earth Ions in Their Interlayer Spaces. <i>Journal of Nanomaterials</i> , <b>2017</b> , 2017, 1-9	3.2	12
224	Light-Emitting Transition Metal Dichalcogenide Monolayers under Cellular Digestion. <i>Advanced Materials</i> , <b>2018</b> , 30, 1703321	24	12
223	Three dimensional porous monoliths from multi-walled carbon nanotubes and polyacrylonitrile. <i>Carbon</i> , <b>2016</b> , 101, 377-381	10.4	12
222	Optoelectronic modulation by multi-wall carbon nanotubes. <i>Nanotechnology</i> , <b>2013</b> , 24, 045201	3.4	12
221	ROS evaluation for a series of CNTs and their derivatives using an ESR method with DMPO. <i>Journal of Physics: Conference Series</i> , <b>2013</b> , 429,	0.3	12
220	Anomalous paramagnetism in doped carbon nanostructures. <i>Small</i> , <b>2007</b> , 3, 120-5	11	12
219	Ground-state electronic structure of nanoscale carbon cones. <i>Physical Review B</i> , <b>2005</b> , 72,	3.3	12
218	Synthesis and electronic properties of coalesced graphitic nanocones. <i>Chemical Physics Letters</i> , <b>2005</b> , 407, 327-332	2.5	12
217	WxMoyCzS2 nanotubes. <i>Carbon</i> , <b>2001</b> , 39, 1107-1111	10.4	12
216	Nanostructured carbon-based membranes: nitrogen doping effects on reverse osmosis performance. <i>NPG Asia Materials</i> , <b>2016</b> , 8, e258-e258	10.3	12
215	Elucidating the local interfacial structure of highly photoresponsive carbon nanotubes/PbS-QDs based nanohybrids grown by pulsed laser deposition. <i>Carbon</i> , <b>2016</b> , 96, 145-152	10.4	11
214	Pressure Sensors: Ultrasensitive Pressure Detection of Few-Layer MoS2 (Adv. Mater. 4/2017). <i>Advanced Materials</i> , <b>2017</b> , 29,	24	11
213	Temperature- and power-dependent phonon properties of suspended continuous WS2 monolayer films. <i>Vibrational Spectroscopy</i> , <b>2016</b> , 86, 270-276	2.1	11
212	Nitrogen-doped-CNTs/Si3N4 nanocomposites with high electrical conductivity. <i>Journal of the European Ceramic Society</i> , <b>2014</b> , 34, 1097-1104	6	11
211	Negative Differential Conductance & Hot-Carrier Avalanching in Monolayer WS2 FETs. <i>Scientific Reports</i> , <b>2017</b> , 7, 11256	4.9	11
210	Novel Nanocarbons for Adsorption <b>2012</b> , 3-34		11

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209	Magnetic properties of individual carbon clusters, clusters inside fullerenes and graphitic nanoribbons. <i>Journal of Materials Chemistry</i> , <b>2008</b> , 18, 1535		11
208	CdSe quantum dot-decorated double walled carbon nanotubes: The effect of chemical moieties. <i>Applied Physics Letters</i> , <b>2008</b> , 93, 051901	3.4	11
207	Oxidation and thermal stability of linear carbon chains contained in thermally treated double-walled carbon nanotubes. <i>Small</i> , <b>2007</b> , 3, 788-92	11	11
206	Effects of novel and stable intermolecular connections in the mechanical and electronic properties of C60 polymerized structures. <i>Chemical Physics Letters</i> , <b>2008</b> , 458, 128-133	2.5	11
205	Solid-phase production of carbon nanotubes. <i>Applied Physics A: Materials Science and Processing</i> , <b>1999</b> , 68, 493-495	2.6	11
204	Monolayer MoS2 on sapphire: an azimuthal reflection high-energy electron diffraction perspective. <i>2D Materials</i> , <b>2021</b> , 8, 025003	5.9	11
203	Quantification and Healing of Defects in Atomically Thin Molybdenum Disulfide: Beyond the Controlled Creation of Atomic Defects. <i>ACS Nano</i> , <b>2021</b> , 15, 9658-9669	16.7	11
202	Intentional carbon doping reveals CH as an abundant charged impurity in nominally undoped synthetic WS2 and WSe2. <i>2D Materials</i> , <b>2020</b> , 7, 031003	5.9	11
201	Hydro-deoxygenation of CO on functionalized carbon nanotubes for liquid fuels production. <i>Carbon</i> , <b>2017</b> , 121, 274-284	10.4	10
200	Functional hetero-interfaces in atomically thin materials. <i>Materials Today</i> , <b>2020</b> , 37, 74-92	21.8	10
199	Functional hetero-interfaces in atomically thin materials. <i>Materials Today</i> , <b>2020</b> , 37, 74-92  Locally Induced Spin States on Graphene by Chemical Attachment of Boron Atoms. <i>Nano Letters</i> , <b>2018</b> , 18, 5482-5487	21.8 11.5	10
	Locally Induced Spin States on Graphene by Chemical Attachment of Boron Atoms. <i>Nano Letters</i> ,		
199	Locally Induced Spin States on Graphene by Chemical Attachment of Boron Atoms. <i>Nano Letters</i> , <b>2018</b> , 18, 5482-5487  Synthesis of V-MoS2 Layered Alloys as Stable Li-Ion Battery Anodes. <i>ACS Applied Energy Materials</i> ,	11.5	10
199 198	Locally Induced Spin States on Graphene by Chemical Attachment of Boron Atoms. <i>Nano Letters</i> , <b>2018</b> , 18, 5482-5487  Synthesis of V-MoS2 Layered Alloys as Stable Li-Ion Battery Anodes. <i>ACS Applied Energy Materials</i> , <b>2019</b> , 2, 8625-8632  A reversible strain-induced electrical conductivity in cup-stacked carbon nanotubes. <i>Nanoscale</i> ,	11.5 6.1	10
199 198 197	Locally Induced Spin States on Graphene by Chemical Attachment of Boron Atoms. <i>Nano Letters</i> , <b>2018</b> , 18, 5482-5487  Synthesis of V-MoS2 Layered Alloys as Stable Li-Ion Battery Anodes. <i>ACS Applied Energy Materials</i> , <b>2019</b> , 2, 8625-8632  A reversible strain-induced electrical conductivity in cup-stacked carbon nanotubes. <i>Nanoscale</i> , <b>2013</b> , 5, 10212-8  Controlled interlayer spacing of scrolled reduced graphene nanotubes by thermal annealing. <i>RSC</i>	11.5 6.1 7.7	10 10 10
199 198 197 196	Locally Induced Spin States on Graphene by Chemical Attachment of Boron Atoms. <i>Nano Letters</i> , <b>2018</b> , 18, 5482-5487  Synthesis of V-MoS2 Layered Alloys as Stable Li-Ion Battery Anodes. <i>ACS Applied Energy Materials</i> , <b>2019</b> , 2, 8625-8632  A reversible strain-induced electrical conductivity in cup-stacked carbon nanotubes. <i>Nanoscale</i> , <b>2013</b> , 5, 10212-8  Controlled interlayer spacing of scrolled reduced graphene nanotubes by thermal annealing. <i>RSC Advances</i> , <b>2013</b> , 3, 4161  Architectures from aligned nanotubes using controlled micropatterning of silicon substrates and	11.5 6.1 7.7 3.7	10 10 10
199 198 197 196	Locally Induced Spin States on Graphene by Chemical Attachment of Boron Atoms. <i>Nano Letters</i> , <b>2018</b> , 18, 5482-5487  Synthesis of V-MoS2 Layered Alloys as Stable Li-Ion Battery Anodes. <i>ACS Applied Energy Materials</i> , <b>2019</b> , 2, 8625-8632  A reversible strain-induced electrical conductivity in cup-stacked carbon nanotubes. <i>Nanoscale</i> , <b>2013</b> , 5, 10212-8  Controlled interlayer spacing of scrolled reduced graphene nanotubes by thermal annealing. <i>RSC Advances</i> , <b>2013</b> , 3, 4161  Architectures from aligned nanotubes using controlled micropatterning of silicon substrates and electrochemical methods. <i>Small</i> , <b>2007</b> , 3, 1157-63	11.5 6.1 7.7 3.7	10 10 10 10 10

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190	Biotin molecules on nitrogen-doped carbon nanotubes enhance the uniform anchoring and formation of Ag nanoparticles. <i>Carbon</i> , <b>2015</b> , 88, 51-59	10.4	9
189	Photoluminescence of monolayer transition metal dichalcogenides integrated with VO. <i>Journal of Physics Condensed Matter</i> , <b>2016</b> , 28, 504001	1.8	9
188	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> , <b>2015</b> , 119, 741-747	3.8	9
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185	Colloidal Nanostructures of Transition-Metal Dichalcogenides. <i>Accounts of Chemical Research</i> , <b>2021</b> , 54, 1517-1527	24.3	9
184	Second- and third-order optical susceptibilities across excitons states in 2D monolayer transition metal dichalcogenides. <i>2D Materials</i> , <b>2021</b> , 8, 035010	5.9	9
183	A carbon nanotube integrated microfluidic device for blood plasma extraction. <i>Scientific Reports</i> , <b>2018</b> , 8, 13623	4.9	9
182	Anomalous Corrosion of Bulk Transition Metal Diselenides Leading to Stable Monolayers. <i>ACS Applied Materials &amp; Diselenials &amp; Di</i>	9.5	8
181	A Spray Pyrolysis Method to Grow Carbon Nanotubes on Carbon Fibres, Steel and Ceramic Bricks. Journal of Nanoscience and Nanotechnology, <b>2015</b> , 15, 2858-64	1.3	8
180	Rapid Size-Based Isolation of Extracellular Vesicles by Three-Dimensional Carbon Nanotube Arrays. <i>ACS Applied Materials &amp; Discourse (Materials &amp; Discourse)</i> 12, 13134-13139	9.5	8
179	Incorporating Niobium in MoS2 at BEOL-Compatible Temperatures and its Impact on Copper Diffusion Barrier Performance. <i>Advanced Materials Interfaces</i> , <b>2019</b> , 6, 1901055	4.6	8
178	Enhanced Solubilization of Carbon Nanotubes in Aqueous Suspensions of AnionicNonionic Surfactant Mixtures. <i>Journal of Physical Chemistry C</i> , <b>2013</b> , 117, 25138-25145	3.8	8
177	Iron Particle Nanodrilling of Few Layer Graphene at Low Electron Beam Accelerating Voltages. <i>Particle and Particle Systems Characterization</i> , <b>2013</b> , 30, 76-82	3.1	8
176	Homogeneously dispersed CeO2 nanoparticles on exfoliated hexaniobate nanosheets. <i>Journal of Physics and Chemistry of Solids</i> , <b>2017</b> , 111, 335-342	3.9	8
175	Unusually high dispersion of nitrogen-doped carbon nanotubes in DNA solution. <i>Journal of Physical Chemistry B</i> , <b>2011</b> , 115, 14295-300	3.4	8
174	The importance of defects for carbon nanoribbon based electronics. <i>Physica Status Solidi - Rapid Research Letters</i> , <b>2009</b> , 3, 181-183	2.5	8

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171	Epitaxial growth of few-layer 🛭 n2Se3 thin films by metalorganic chemical vapor deposition. <i>Journal of Crystal Growth</i> , <b>2020</b> , 533, 125471	1.6	8	
170	Electric field induced metallic behavior in thin crystals of ferroelectric <code>Hn2Se3</code> . <i>Applied Physics Letters</i> , <b>2020</b> , 117, 052901	3.4	8	
169	Effect of underlying boron nitride thickness on photocurrent response in molybdenum disulfide I boron nitride heterostructures. <i>Journal of Materials Research</i> , <b>2016</b> , 31, 893-899	2.5	8	
168	Transition metal <b>C</b> raphene oxide nanohybrid materials as counter electrodes for high efficiency quantum dot solar cells. <i>Catalysis Today</i> , <b>2020</b> , 355, 860-869	5.3	8	
167	Preparation of novel tetrahedral Ag3PO4 crystals and the sunlight-responsive photocatalytic properties using graphene oxide as the template. <i>Carbon</i> , <b>2017</b> , 119, 522-526	10.4	7	
166	Properties of Functionalized Carbon Nanotubes and Their Interaction with a Metallic Substrate Investigated by Scanning Tunneling Microscopy. <i>Journal of Physical Chemistry C</i> , <b>2017</b> , 121, 24264-2427	1 <sup>3.8</sup>	7	
165	Hyperelasticity of three-dimensional carbon nanotube sponge controlled by the stiffness of covalent junctions. <i>Carbon</i> , <b>2015</b> , 95, 640-645	10.4	7	
164	Carbon nanotube-Cu hybrids enhanced catalytic activity in aqueous media. <i>Carbon</i> , <b>2014</b> , 78, 10-18	10.4	7	
163	Magnetic and Electrical Properties of Nitrogen-Doped Multiwall Carbon Nanotubes Fabricated by a Modified Chemical Vapor Deposition Method. <i>Journal of Nanomaterials</i> , <b>2015</b> , 2015, 1-14	3.2	7	
162	Controlled growth of one-dimensional clusters of molybdenum atoms using double-walled carbon nanotube templating. <i>Applied Physics Letters</i> , <b>2009</b> , 94, 113105	3.4	7	
161	Composition and morphological characteristics of chemically sprayed fluorine-doped zinc oxide thin films deposited on Si(100). <i>Physica B: Condensed Matter</i> , <b>2007</b> , 390, 10-16	2.8	7	
160	The Improvement of the Bleaching of Peroxyformic Sugar Cane Bagasse Pulp by Photocatalysis and Photosensitization. <i>Journal of the Brazilian Chemical Society</i> , <b>1999</b> , 10, 197-202	1.5	7	
159	Large-Scale Synthesis of Carbon Nanotubes by Pyrolysis <b>1999</b> , 143-152		7	
158	Light-Controlled Room Temperature Ferromagnetism in Vanadium-Doped Tungsten Disulfide Semiconducting Monolayers. <i>Advanced Electronic Materials</i> , <b>2021</b> , 7, 2100030	6.4	7	
157	Electric-Field-Assisted Directed Assembly of Transition Metal Dichalcogenide Monolayer Sheets. <i>ACS Nano</i> , <b>2016</b> , 10, 5006-14	16.7	7	
156	Facile 1D graphene fiber synthesis from an agricultural by-product: A silicon-mediated graphenization route. <i>Carbon</i> , <b>2019</b> , 142, 78-88	10.4	7	

155	Probing the interaction of noble gases with pristine and nitrogen-doped graphene through Raman spectroscopy. <i>Physical Review B</i> , <b>2018</b> , 97,	3.3	7
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153	Directional Electrical Transport in Tough Multifunctional Layered Ceramic/Graphene Composites. <i>Advanced Electronic Materials</i> , <b>2015</b> , 1, 1500132	6.4	6
152	Controlling the shapes and assemblages of graphene. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2012</b> , 109, 7951-2	11.5	6
151	Soft purification of N-doped and undoped multi-wall carbon nanotubes. <i>Nanotechnology</i> , <b>2008</b> , 19, 155	79.14	6
150	Raman study on electrochemical lithium insertion into multiwalled carbon nanotubes. <i>Journal of Raman Spectroscopy</i> , <b>2008</b> , 39, 1183-1188	2.3	6
149	Determination of chiralities of single-walled carbon nanotubes by neutron powder diffraction technique. <i>Diamond and Related Materials</i> , <b>2007</b> , 16, 473-476	3.5	6
148	Sodium chloride-catalyzed oxidation of multiwalled carbon nanotubes for environmental benefit. Journal of Physical Chemistry B, <b>2006</b> , 110, 12017-21	3.4	6
147	Growth of double-walled carbon nanotubes using a conditioning catalyst. <i>Journal of Nanoscience and Nanotechnology</i> , <b>2005</b> , 5, 404-8	1.3	6
146	SiO2-coated carbon nanotubes: theory and experiment. <i>International Journal of Materials Research</i> , <b>2002</b> , 93, 455-458		6
145	Doping and connecting carbon nanotubes. <i>Molecular Crystals and Liquid Crystals</i> , <b>2002</b> , 387, 51-62	0.5	6
144	The effects of substitutional Fe-doping on magnetism in MoS2 and WS2 monolayers. <i>Nanotechnology</i> , <b>2020</b> ,	3.4	6
143	Temperature- and power-dependent phonon properties of suspended few layers of tungsten diselenide. <i>Vibrational Spectroscopy</i> , <b>2020</b> , 111, 103169	2.1	6
142	Second harmonic generation in two-dimensional transition metal dichalcogenides with growth and post-synthesis defects. <i>2D Materials</i> , <b>2020</b> , 7, 045020	5.9	6
141	Temperature Dependence of Sensors Based on Silver-Decorated Nitrogen-Doped Multiwalled Carbon Nanotubes. <i>Journal of Sensors</i> , <b>2016</b> , 2016, 1-10	2	6
140	Controllable and Predictable Viscoelastic Behavior of 3D Boron-Doped Multiwalled Carbon Nanotube Sponges. <i>Particle and Particle Systems Characterization</i> , <b>2016</b> , 33, 21-26	3.1	6
139	Confined Crack Propagation in MoS Monolayers by Creating Atomic Vacancies. ACS Nano, 2021, 15, 121	0£62/16	5 6
138	(Ga,In)P nanowires grown without intentional catalyst. <i>Journal of Crystal Growth</i> , <b>2015</b> , 431, 72-78	1.6	5

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137	Solvothermal synthesis of porous conjugated polymer with high surface area for efficient adsorption of organic and biomolecules. <i>Journal of Porous Materials</i> , <b>2018</b> , 25, 1659-1668	2.4	5
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135	Excitonic processes in atomically-thin MoSe 2 /MoS 2 vertical heterostructures. 2D Materials, <b>2018</b> , 5, 031016	5.9	5
134	Boron-assisted coalescence of parallel multi-walled carbon nanotubes. <i>RSC Advances</i> , <b>2013</b> , 3, 26266	3.7	5
133	Determination of the stacking order of curved few-layered graphene systems. <i>Nanoscale</i> , <b>2012</b> , 4, 6419	- <b>3</b> :47	5
132	Novel Carbon-Based Nanomaterials <b>2013</b> , 61-87		5
131	Sensors: Photosensor Device Based on Few-Layered WS2 Films (Adv. Funct. Mater. 44/2013). <i>Advanced Functional Materials</i> , <b>2013</b> , 23, 5510-5510	15.6	5
130	Sensitive G-band Raman features for the electrical conductivity of multi-walled carbon nanotubes. Journal of Nanoscience and Nanotechnology, <b>2010</b> , 10, 3940-4	1.3	5
129	Electrical transport through single-wall carbon nanotube-anodic aluminum oxide-aluminum heterostructures. <i>Nanotechnology</i> , <b>2010</b> , 21, 035707	3.4	5
128	Magnetic properties of encapsulated nanoparticles in nitrogen-doped multiwalled cabon nanotubes embedded in SiOx matrices. <i>Journal of Nanoscience and Nanotechnology</i> , <b>2010</b> , 10, 5576-82	1.3	5
127	Synthetic Routes to Novel Nanomaterials. <i>Fullerenes, Nanotubes, and Carbon Nanostructures</i> , <b>1997</b> , 5, 813-827		5
126	Formation of off-centered double-walled carbon nanotubes exhibiting wide interlayer spacing from bi-cables. <i>Chemical Physics Letters</i> , <b>2006</b> , 432, 240-244	2.5	5
125	Magnetic and transport properties of Fe nanowires encapsulated in carbon nanotubes. <i>Journal of Magnetism and Magnetic Materials</i> , <b>2004</b> , 272-276, E1255-E1257	2.8	5
124	Low temperature activation of inert hexagonal boron nitride for metal deposition and single atom catalysis. <i>Materials Today</i> , <b>2021</b> ,	21.8	5
123	Structure, Chirality, and Formation of Giant Icosahedral Fullerenes and Spherical Graphitic Onions <b>2015</b> , 101-112		5
122	Improved supercapacitors by implanting ultra-long single-walled carbon nanotubes into manganese oxide domains. <i>Journal of Power Sources</i> , <b>2020</b> , 479, 228795	8.9	5
121	Directional Modulation of Exciton Emission Using Single Dielectric Nanospheres. <i>Advanced Materials</i> , <b>2021</b> , 33, e2007236	24	5
120	Transport properties through hexagonal boron nitride clusters embedded in graphene nanoribbons. <i>Nanotechnology</i> , <b>2016</b> , 27, 185203	3.4	5

119	Fullerene and nanotube growth: new insights using first principles and molecular dynamics. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences,</i> <b>2016</b> , 374,	3	5
118	Photodegradation Protection in 2D In-Plane Heterostructures Revealed by Hyperspectral Nanoimaging: The Role of Nanointerface 2D Alloys. <i>ACS Nano</i> , <b>2021</b> , 15, 2447-2457	16.7	5
117	Graphene oxide membranes for lactose-free milk. <i>Carbon</i> , <b>2021</b> , 181, 118-129	10.4	5
116	Secure Electronics Enabled by Atomically Thin and Photosensitive Two-Dimensional Memtransistors <i>ACS Nano</i> , <b>2021</b> , 15, 19815-19827	16.7	5
115	Mouse pulmonary dose- and time course-responses induced by exposure to nitrogen-doped multi-walled carbon nanotubes. <i>Inhalation Toxicology</i> , <b>2020</b> , 32, 24-38	2.7	4
114	Enhancing the superconducting temperature of MgB2 by SWCNT dilution. <i>Physica C:</i> Superconductivity and Its Applications, <b>2014</b> , 497, 43-48	1.3	4
113	Doped Graphene: Theory, Synthesis, Characterization, and Applications <b>2013</b> , 183-207		4
112	Metal-semiconductor transition like behavior of naphthalene-doped single wall carbon nanotube bundles. <i>Faraday Discussions</i> , <b>2014</b> , 173, 145-56	3.6	4
111	Pine-tree-like morphologies of nitrogen-doped carbon nanotubes: Electron field emission enhancement. <i>Journal of Materials Research</i> , <b>2014</b> , 29, 2441-2450	2.5	4
110	An Atomistic Branching Mechanism for Carbon Nanotubes: Sulfur as the Triggering Agent. <i>Angewandte Chemie</i> , <b>2008</b> , 120, 2990-2995	3.6	4
109	Metal and alloy nanowires: Iron and invar inside carbon nanotubes. <i>AIP Conference Proceedings</i> , <b>2001</b> ,	О	4
108	Fullerenes with Non-Positive Gaussian Curvature: Holey-Balls and Holey-Tubes. <i>Fullerenes, Nanotubes, and Carbon Nanostructures</i> , <b>1998</b> , 6, 751-767		4
107	Nanotechnology of nanotubes and nanowires: From aligned carbon nanotubes to silicon oxide nanowires <b>1998</b> ,		4
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