

# Vincent Meunier

## List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

296 papers	19,097 citations	68 h-index	132 g-index
317 ext. papers	21,438 ext. citations	8.1 avg, IF	6.78 L-index

#	Paper	IF	Citations
296	Recent Advances in Two-Dimensional Materials beyond Graphene. <i>ACS Nano</i> , <b>2015</b> , 9, 11509-39	16.7	1581
295	Ultrathin planar graphene supercapacitors. <i>Nano Letters</i> , <b>2011</b> , 11, 1423-7	11.5	1020
294	Evaluating the characteristics of multiwall carbon nanotubes. <i>Carbon</i> , <b>2011</b> , 49, 2581-2602	10.4	769
293	Controlled formation of sharp zigzag and armchair edges in graphitic nanoribbons. <i>Science</i> , <b>2009</b> , 323, 1701-5	33.3	592
292	Theoretical model for nanoporous carbon supercapacitors. <i>Angewandte Chemie - International Edition</i> , <b>2008</b> , 47, 520-4	16.4	475
291	A universal model for nanoporous carbon supercapacitors applicable to diverse pore regimes, carbon materials, and electrolytes. <i>Chemistry - A European Journal</i> , <b>2008</b> , 14, 6614-26	4.8	465
290	Graphene nanoribbon heterojunctions. <i>Nature Nanotechnology</i> , <b>2014</b> , 9, 896-900	28.7	443
289	Electronic bandgap and edge reconstruction in phosphorene materials. <i>Nano Letters</i> , <b>2014</b> , 14, 6400-6	11.5	365
288	Graphene edges: a review of their fabrication and characterization. <i>Nanoscale</i> , <b>2011</b> , 3, 86-95	7.7	353
287	Covalently bonded three-dimensional carbon nanotube solids via boron induced nanojunctions. <i>Scientific Reports</i> , <b>2012</b> , 2, 363	4.9	300
286	Mechanical and Electrical Properties of Nanotubes. <i>Annual Review of Materials Research</i> , <b>2002</b> , 32, 347-375	5.8	299
285	Anisotropic Electron-Photon and Electron-Phonon Interactions in Black Phosphorus. <i>Nano Letters</i> , <b>2016</b> , 16, 2260-7	11.5	266
284	Massless fermions in multilayer graphitic systems with misoriented layers: Ab initio calculations and experimental fingerprints. <i>Physical Review B</i> , <b>2007</b> , 76,	3.3	263
283	First-principles Raman spectra of MoS <sub>2</sub> , WS <sub>2</sub> and their heterostructures. <i>Nanoscale</i> , <b>2014</b> , 6, 5394-401	7.7	261
282	Ab initio investigations of lithium diffusion in carbon nanotube systems. <i>Physical Review Letters</i> , <b>2002</b> , 88, 075506	7.4	234
281	Engineering of robust topological quantum phases in graphene nanoribbons. <i>Nature</i> , <b>2018</b> , 560, 209-213	50.4	227
280	Raman Shifts in Electron-Irradiated Monolayer MoS <sub>2</sub> . <i>ACS Nano</i> , <b>2016</b> , 10, 4134-42	16.7	226

279	On-Surface Synthesis and Characterization of 9-Atom Wide Armchair Graphene Nanoribbons. <i>ACS Nano</i> , <b>2017</b> , 11, 1380-1388	16.7	196
278	Electronic transport and mechanical properties of phosphorus- and phosphorus-nitrogen-doped carbon nanotubes. <i>ACS Nano</i> , <b>2009</b> , 3, 1913-21	16.7	191
277	Covalent 2D and 3D networks from 1D nanostructures: designing new materials. <i>Nano Letters</i> , <b>2007</b> , 7, 570-6	11.5	191
276	Nitrogen-mediated carbon nanotube growth: diameter reduction, metallicity, bundle dispersability, and bamboo-like structure formation. <i>ACS Nano</i> , <b>2007</b> , 1, 369-75	16.7	185
275	Ultrathin nanosheets of CrSiTe <sub>3</sub> : a semiconducting two-dimensional ferromagnetic material. <i>Journal of Materials Chemistry C</i> , <b>2016</b> , 4, 315-322	7.1	171
274	Spontaneous polarization and piezoelectricity in boron nitride nanotubes. <i>Physical Review B</i> , <b>2003</b> , 67,	3.3	170
273	Probing the interlayer coupling of twisted bilayer MoS <sub>2</sub> using photoluminescence spectroscopy. <i>Nano Letters</i> , <b>2014</b> , 14, 5500-8	11.5	168
272	Fullerene Coalescence in Nanopeapods: A Path to Novel Tubular Carbon. <i>Nano Letters</i> , <b>2003</b> , 3, 1037-1042	12.5	166
271	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
270	Insight into organometallic intermediate and its evolution to covalent bonding in surface-confined ullmann polymerization. <i>ACS Nano</i> , <b>2013</b> , 7, 8190-8	16.7	164
269	Complex capacitance scaling in ionic liquids-filled nanopores. <i>ACS Nano</i> , <b>2011</b> , 5, 9044-51	16.7	161
268	Tunable water desalination across graphene oxide framework membranes. <i>Physical Chemistry Chemical Physics</i> , <b>2014</b> , 16, 8646-54	3.6	159
267	Low-Frequency Interlayer Breathing Modes in Few-Layer Black Phosphorus. <i>Nano Letters</i> , <b>2015</b> , 15, 4080-8	11.5	154
266	The importance of ion size and electrode curvature on electrical double layers in ionic liquids. <i>Physical Chemistry Chemical Physics</i> , <b>2011</b> , 13, 1152-61	3.6	151
265	Ion distribution in electrified micropores and its role in the anomalous enhancement of capacitance. <i>ACS Nano</i> , <b>2010</b> , 4, 2382-90	16.7	150
264	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
263	Scanning tunneling microscopy fingerprints of point defects in graphene: A theoretical prediction. <i>Physical Review B</i> , <b>2007</b> , 76,	3.3	146
262	Transition-Metal Substitution Doping in Synthetic Atomically Thin Semiconductors. <i>Advanced Materials</i> , <b>2016</b> , 28, 9735-9743	24	145

261	Atomic structure of carbon nanotubes from scanning tunneling microscopy. <i>Physical Review B</i> , <b>2000</b> , 61, 2991-2996	3.3	144
260	STM study of a grain boundary in graphite. <i>Surface Science</i> , <b>2002</b> , 511, 319-322	1.8	140
259	Molecular selectivity of graphene-enhanced Raman scattering. <i>Nano Letters</i> , <b>2015</b> , 15, 2892-901	11.5	136
258	Electronic flexoelectricity in low-dimensional systems. <i>Physical Review B</i> , <b>2008</b> , 77,	3.3	135
257	Low-Frequency Interlayer Raman Modes to Probe Interface of Twisted Bilayer MoS <sub>2</sub> . <i>Nano Letters</i> , <b>2016</b> , 16, 1435-44	11.5	130
256	Physical properties of low-dimensional sp <sup>2</sup> -based carbon nanostructures. <i>Reviews of Modern Physics</i> , <b>2016</b> , 88,	40.5	127
255	Enhanced Electron Field Emission in B-doped Carbon Nanotubes. <i>Nano Letters</i> , <b>2002</b> , 2, 1191-1195	11.5	125
254	Low-Frequency Raman Fingerprints of Two-Dimensional Metal Dichalcogenide Layer Stacking Configurations. <i>ACS Nano</i> , <b>2015</b> , 9, 6333-42	16.7	121
253	Curvature effects in carbon nanomaterials: Exohedral versus endohedral supercapacitors. <i>Journal of Materials Research</i> , <b>2010</b> , 25, 1525-1531	2.5	121
252	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
251	Structural, magnetic, and transport properties of substitutionally doped graphene nanoribbons from first principles. <i>Physical Review B</i> , <b>2011</b> , 83,	3.3	117
250	Step-by-step growth of epitaxially aligned polythiophene by surface-confined reaction. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2010</b> , 107, 11200-4	11.5	110
249	Tight-Binding Computation of the STM Image of Carbon Nanotubes. <i>Physical Review Letters</i> , <b>1998</b> , 81, 5588-5591	7.4	110
248	Low-Frequency Shear and Layer-Breathing Modes in Raman Scattering of Two-Dimensional Materials. <i>ACS Nano</i> , <b>2017</b> , 11, 11777-11802	16.7	109
247	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
246	Enhanced Raman Scattering on In-Plane Anisotropic Layered Materials. <i>Journal of the American Chemical Society</i> , <b>2015</b> , 137, 15511-7	16.4	97
245	Topographic and spectroscopic characterization of electronic edge states in CVD grown graphene nanoribbons. <i>Nano Letters</i> , <b>2012</b> , 12, 1928-33	11.5	97
244	Twisted MoSe <sub>2</sub> Bilayers with Variable Local Stacking and Interlayer Coupling Revealed by Low-Frequency Raman Spectroscopy. <i>ACS Nano</i> , <b>2016</b> , 10, 2736-44	16.7	95

243	Nanoscale Ferroelectricity in Crystalline EGlycine. <i>Advanced Functional Materials</i> , <b>2012</b> , 22, 2996-3003	15.6	94
242	Electronic and field emission properties of boron nitride/carbon nanotube superlattices. <i>Applied Physics Letters</i> , <b>2002</b> , 81, 46-48	3.4	92
241	Structure and dynamics of electrical double layers in organic electrolytes. <i>Physical Chemistry Chemical Physics</i> , <b>2010</b> , 12, 5468-79	3.6	84
240	Controlled Sculpture of Black Phosphorus Nanoribbons. <i>ACS Nano</i> , <b>2016</b> , 10, 5687-95	16.7	84
239	The role of collective motion in the ultrafast charge transfer in van der Waals heterostructures. <i>Nature Communications</i> , <b>2016</b> , 7, 11504	17.4	79
238	Quasi one-dimensional band dispersion and surface metallization in long-range ordered polymeric wires. <i>Nature Communications</i> , <b>2016</b> , 7, 10235	17.4	79
237	Nonmagnetic Quantum Emitters in Boron Nitride with Ultranarrow and Sideband-Free Emission Spectra. <i>ACS Nano</i> , <b>2017</b> , 11, 6652-6660	16.7	78
236	Novel Electromechanical Phenomena at the Nanoscale: Phenomenological Theory and Atomistic Modeling. <i>MRS Bulletin</i> , <b>2009</b> , 34, 643-647	3.2	78
235	A "counter-charge layer in generalized solvents" framework for electrical double layers in neat and hybrid ionic liquid electrolytes. <i>Physical Chemistry Chemical Physics</i> , <b>2011</b> , 13, 14723-34	3.6	75
234	Quantum Dots in Graphene Nanoribbons. <i>Nano Letters</i> , <b>2017</b> , 17, 4277-4283	11.5	74
233	Phosphorus and phosphorus-nitrogen doped carbon nanotubes for ultrasensitive and selective molecular detection. <i>Nanoscale</i> , <b>2011</b> , 3, 1008-13	7.7	74
232	Theoretical study of the vibrational edge modes in graphene nanoribbons. <i>Physical Review B</i> , <b>2008</b> , 78,	3.3	74
231	Atomic and electronic structures of large and small carbon tori. <i>Physical Review B</i> , <b>1998</b> , 57, 14886-14890	9.3	74
230	Revealing the Electronic Structure of Silicon Intercalated Armchair Graphene Nanoribbons by Scanning Tunneling Spectroscopy. <i>Nano Letters</i> , <b>2017</b> , 17, 2197-2203	11.5	72
229	An atomistic branching mechanism for carbon nanotubes: sulfur as the triggering agent. <i>Angewandte Chemie - International Edition</i> , <b>2008</b> , 47, 2948-53	16.4	69
228	Enhanced thermoelectric figure of merit in assembled graphene nanoribbons. <i>Physical Review B</i> , <b>2012</b> , 86,	3.3	68
227	Intrinsic electron transport properties of carbon nanotube Y-junctions. <i>Applied Physics Letters</i> , <b>2002</b> , 81, 5234-5236	3.4	66
226	Electronic structure of polychiral carbon nanotubes. <i>Physical Review B</i> , <b>2000</b> , 62, 5129-5135	3.3	66

- 225 Emergence of atypical properties in assembled graphene nanoribbons. *Physical Review Letters*, **2011**, 107, 135501 7.4 65
- 224 On-Surface Synthesis of BN-Substituted Heteroaromatic Networks. *ACS Nano*, **2015**, 9, 9228-35 16.7 64
- 223 A theoretical and experimental study on manipulating the structure and properties of carbon nanotubes using substitutional dopants. *International Journal of Quantum Chemistry*, **2009**, 109, 97-118 2.1 64
- 222 Mechanistic Picture and Kinetic Analysis of Surface-Confined Ullmann Polymerization. *Journal of the American Chemical Society*, **2016**, 138, 16696-16702 16.4 63
- 221 Voltage Dependent Charge Storage Modes and Capacity in Subnanometer Pores. *Journal of Physical Chemistry Letters*, **2012**, 3, 1732-7 6.4 63
- 220 Mesoscopic metal-insulator transition at ferroelastic domain walls in VO<sub>2</sub>. *ACS Nano*, **2010**, 4, 4412-9 16.7 63
- 219 DNA Translocation in Nanometer Thick Silicon Nanopores. *ACS Nano*, **2015**, 9, 6555-64 16.7 62
- 218 Structure and stability of small boron and boron oxide clusters. *Journal of Physical Chemistry A*, **2007**, 111, 6539-51 2.8 62
- 217 Reoxidation of TiO<sub>2</sub>(110) via Ti interstitials and line defects. *Physical Review B*, **2007**, 75, 3.3 61
- 216 Nonequilibrium quantum transport properties of organic molecules on silicon. *Physical Review Letters*, **2005**, 95, 206805 7.4 60
- 215 A carbon science perspective in 2018: Current achievements and future challenges. *Carbon*, **2018**, 132, 785-801 10.4 59
- 214 Amphoteric doping of carbon nanotubes by encapsulation of organic molecules: electronic properties and quantum conductance. *Journal of Chemical Physics*, **2005**, 123, 24705 3.9 59
- 213 Theoretical Model for Nanoporous Carbon Supercapacitors. *Angewandte Chemie*, **2008**, 120, 530-534 3.6 57
- 212 Engineering Three-Dimensional (3D) Out-of-Plane Graphene Edge Sites for Highly Selective Two-Electron Oxygen Reduction Electrocatalysis. *ACS Catalysis*, **2020**, 10, 1993-2008 13.1 57
- 211 Quantum-interference-controlled three-terminal molecular transistors based on a single ring-shaped molecule connected to graphene nanoribbon electrodes. *Physical Review Letters*, **2010**, 105, 236803 7.4 56
- 210 How to Identify Haekelite Structures: A Theoretical Study of Their Electronic and Vibrational Properties. *Nano Letters*, **2004**, 4, 805-810 11.5 56
- 209 Energetics of bent carbon nanotubes. *Physical Review B*, **1998**, 57, 2586-2591 3.3 56
- 208 Scanning tunneling spectroscopy signature of finite-size and connected nanotubes: A tight-binding study. *Physical Review B*, **1999**, 60, 7792-7795 3.3 56

207	Quantum-Confined Stark Effect of Individual Defects in a van der Waals Heterostructure. <i>Nano Letters</i> , <b>2017</b> , 17, 2253-2258	11.5	55
206	Quantum transport in graphene nanonetworks. <i>Nano Letters</i> , <b>2011</b> , 11, 3058-64	11.5	55
205	Nonlinear photon-assisted tunneling transport in optical gap antennas. <i>Nano Letters</i> , <b>2014</b> , 14, 2330-8	11.5	53
204	On-Surface Cyclization of ortho-Dihalotetracenes to Four- and Six-Membered Rings. <i>Journal of the American Chemical Society</i> , <b>2017</b> , 139, 17617-17623	16.4	52
203	Spin polarized conductance in hybrid graphene nanoribbons using 5-7 defects. <i>ACS Nano</i> , <b>2009</b> , 3, 3606-12	16.7	52
202	Charge transport through small silicon clusters. <i>Physical Review B</i> , <b>2002</b> , 66,	3.3	52
201	Seamless Staircase Electrical Contact to Semiconducting Graphene Nanoribbons. <i>Nano Letters</i> , <b>2017</b> , 17, 6241-6247	11.5	51
200	Controlling edge morphology in graphene layers using electron irradiation: from sharp atomic edges to coalesced layers forming loops. <i>Physical Review Letters</i> , <b>2010</b> , 105, 045501	7.4	50
199	Surface-Synthesized Graphene Nanoribbons for Room Temperature Switching Devices: Substrate Transfer and ex Situ Characterization. <i>ACS Applied Nano Materials</i> , <b>2019</b> , 2, 2184-2192	5.6	49
198	Negative differential resistance in C60-based electronic devices. <i>ACS Nano</i> , <b>2010</b> , 4, 7205-10	16.7	49
197	Clean nanotube unzipping by abrupt thermal expansion of molecular nitrogen: graphene nanoribbons with atomically smooth edges. <i>ACS Nano</i> , <b>2012</b> , 6, 2261-72	16.7	48
196	Atomistic Insight on the Charging Energetics in Subnanometer Pore Supercapacitors. <i>Journal of Physical Chemistry C</i> , <b>2010</b> , 114, 18012-18016	3.8	48
195	Guiding electrical current in nanotube circuits using structural defects: a step forward in nanoelectronics. <i>ACS Nano</i> , <b>2008</b> , 2, 2585-91	16.7	48
194	Enabling room temperature ferromagnetism in monolayer MoS via in situ iron-doping. <i>Nature Communications</i> , <b>2020</b> , 11, 2034	17.4	46
193	Effect of diffuse layer and pore shapes in mesoporous carbon supercapacitors. <i>Journal of Materials Research</i> , <b>2010</b> , 25, 1469-1475	2.5	46
192	Surface reconstructions of TiO <sub>2</sub> (110) driven by suboxides. <i>Physical Review Letters</i> , <b>2006</b> , 96, 226105	7.4	46
191	Scanning tunneling microscopy and spectroscopy of topological defects in carbon nanotubes. <i>Carbon</i> , <b>2000</b> , 38, 1729-1733	10.4	46
190	Localization of lattice dynamics in low-angle twisted bilayer graphene. <i>Nature</i> , <b>2021</b> , 590, 405-409	50.4	46

189	Enhancement of the transverse conductance in DNA nucleotides. <i>Journal of Chemical Physics</i> , <b>2008</b> , 128, 041103	3.9	45
188	Heteroatom-Doped Perihexacene from a Double Helicene Precursor: On-Surface Synthesis and Properties. <i>Journal of the American Chemical Society</i> , <b>2017</b> , 139, 4671-4674	16.4	44
187	Electronic properties of two-dimensional covalent organic frameworks. <i>Journal of Chemical Physics</i> , <b>2012</b> , 137, 244703	3.9	44
186	Millimeter-long carbon nanotubes: outstanding electron-emitting sources. <i>ACS Nano</i> , <b>2011</b> , 5, 5072-7	16.7	44
185	The Role of Sulfur in the Synthesis of Novel Carbon Morphologies: From Covalent Y-Junctions to Sea-Urchin-Like Structures. <i>Advanced Functional Materials</i> , <b>2009</b> , 19, 1193-1199	15.6	44
184	Electronic transport of recrystallized freestanding graphene nanoribbons. <i>ACS Nano</i> , <b>2015</b> , 9, 3510-20	16.7	43
183	Oxygen-induced surface reconstruction of SrRuO <sub>3</sub> and its effect on the BaTiO <sub>3</sub> interface. <i>ACS Nano</i> , <b>2010</b> , 4, 4190-6	16.7	43
182	Facet-insensitive graphene growth on copper. <i>Physical Review B</i> , <b>2012</b> , 85,	3.3	43
181	Vanadium disulfide flakes with nanolayered titanium disulfide coating as cathode materials in lithium-ion batteries. <i>Nature Communications</i> , <b>2019</b> , 10, 1764	17.4	42
180	Electronic structure of assembled graphene nanoribbons: Substrate and many-body effects. <i>Physical Review B</i> , <b>2012</b> , 86,	3.3	42
179	Structural and electronic properties of carbon nanotube tapers. <i>Physical Review B</i> , <b>2001</b> , 64,	3.3	42
178	Selective tuning of the electronic properties of coaxial nanocables through exohedral doping. <i>Nano Letters</i> , <b>2007</b> , 7, 2383-8	11.5	41
177	Width and Crystal Orientation Dependent Band Gap Renormalization in Substrate-Supported Graphene Nanoribbons. <i>Journal of Physical Chemistry Letters</i> , <b>2016</b> , 7, 1526-33	6.4	40
176	Improved all-carbon spintronic device design. <i>Scientific Reports</i> , <b>2015</b> , 5, 7634	4.9	38
175	Carbon kagome lattice and orbital-frustration-induced metal-insulator transition for optoelectronics. <i>Physical Review Letters</i> , <b>2014</b> , 113, 085501	7.4	38
174	Properties of one-dimensional molybdenum nanowires in a confined environment. <i>Nano Letters</i> , <b>2009</b> , 9, 1487-92	11.5	37
173	Measuring the helicity of carbon nanotubes. <i>Carbon</i> , <b>2000</b> , 38, 1713-1721	10.4	37
172	Carbon science perspective in 2020: Current research and future challenges. <i>Carbon</i> , <b>2020</b> , 161, 373-391	10.4	35



171	Bright photoluminescence from the inner tubes of "peapod"-derived double-walled carbon nanotubes. <i>Small</i> , <b>2009</b> , 5, 2678-82	11	35
170	Interlayer bond polarizability model for stacking-dependent low-frequency Raman scattering in layered materials. <i>Nanoscale</i> , <b>2017</b> , 9, 15340-15355	7.7	32
169	Isotope-Engineering the Thermal Conductivity of Two-Dimensional MoS. <i>ACS Nano</i> , <b>2019</b> , 13, 2481-2489	16.7	32
168	Nanowire-Mesh-Templated Growth of Out-of-Plane Three-Dimensional Fuzzy Graphene. <i>ACS Nano</i> , <b>2017</b> , 11, 6301-6311	16.7	31
167	Periodic Arrays of Phosphorene Nanopores as Antidot Lattices with Tunable Properties. <i>ACS Nano</i> , <b>2017</b> , 11, 7494-7507	16.7	29
166	Nitrogen-Doped Graphitic Nanoribbons: Synthesis, Characterization, and Transport. <i>Advanced Functional Materials</i> , <b>2013</b> , 23, 3755-3762	15.6	28
165	Atomically Precise Graphene Nanoribbon Heterojunctions for Excitonic Solar Cells. <i>Journal of Physical Chemistry C</i> , <b>2015</b> , 119, 775-783	3.8	28
164	Can computational approaches aid in untangling the inherent complexity of practical organic photovoltaic systems?. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , <b>2012</b> , 50, 1071-1089	2.6	28
163	Single electron tunneling of nanoscale TiSi <sub>2</sub> islands on Si. <i>Journal of Applied Physics</i> , <b>2002</b> , 92, 3332-3337	2.5	28
162	Electronic, structural, and magnetic properties of LaMnO <sub>3</sub> phase transition at high temperature. <i>Physical Review B</i> , <b>2016</b> , 93,	3.3	27
161	Molecular Dynamics Simulations of Graphene Oxide Frameworks. <i>Journal of Chemical Theory and Computation</i> , <b>2013</b> , 9, 4890-900	6.4	27
160	Electronic and thermoelectric properties of assembled graphene nanoribbons with elastic strain and structural dislocation. <i>Applied Physics Letters</i> , <b>2013</b> , 102, 143101	3.4	25
159	Electronic transport properties of assembled carbon nanoribbons. <i>ACS Nano</i> , <b>2012</b> , 6, 6483-91	16.7	25
158	Edge-edge interactions in stacked graphene nanoplatelets. <i>ACS Nano</i> , <b>2013</b> , 7, 2834-41	16.7	25
157	Massive Dirac Fermion Behavior in a Low Bandgap Graphene Nanoribbon Near a Topological Phase Boundary. <i>Advanced Materials</i> , <b>2020</b> , 32, e1906054	24	24
156	An Environmentally Stable and Lead-Free Chalcogenide Perovskite. <i>Advanced Functional Materials</i> , <b>2020</b> , 30, 2001387	15.6	23
155	Self-organized and cu-coordinated surface linear polymerization. <i>Scientific Reports</i> , <b>2013</b> , 3, 2102	4.9	23
154	Electron transport properties of ordered networks using carbon nanotubes. <i>Nanotechnology</i> , <b>2008</b> , 19, 315704	3.4	23

153	Nonvolatile memory elements based on the intercalation of organic molecules inside carbon nanotubes. <i>Physical Review Letters</i> , <b>2007</b> , 98, 056401	7.4	23
152	Theoretical and Experimental Insight into the Mechanism for Spontaneous Vertical Growth of ReS <sub>2</sub> Nanosheets. <i>Advanced Functional Materials</i> , <b>2018</b> , 28, 1801286	15.6	23
151	Elastic, plastic, and fracture mechanisms in graphene materials. <i>Journal of Physics Condensed Matter</i> , <b>2015</b> , 27, 373002	1.8	22
150	First-principles simulation of local response in transition metal dichalcogenides under electron irradiation. <i>Nanoscale</i> , <b>2018</b> , 10, 2388-2397	7.7	22
149	Electronic, Thermal, and Structural Properties of Graphene Oxide Frameworks. <i>Journal of Physical Chemistry C</i> , <b>2013</b> , 117, 8276-8281	3.8	22
148	Anomalous vibrational modes in few layer WTe <sub>2</sub> revealed by polarized Raman scattering and first-principles calculations. <i>2D Materials</i> , <b>2017</b> , 4, 035024	5.9	21
147	Structural and electronic properties of graphitic nanowiggles. <i>Physical Review B</i> , <b>2012</b> , 85,	3.3	21
146	Charged defects in two-dimensional semiconductors of arbitrary thickness and geometry: Formulation and application to few-layer black phosphorus. <i>Physical Review B</i> , <b>2017</b> , 96,	3.3	20
145	First-principles methodology for quantum transport in multiterminal junctions. <i>Journal of Chemical Physics</i> , <b>2009</b> , 131, 164105	3.9	20
144	New insight into carbon-nanotube electronic-structure selectivity. <i>Small</i> , <b>2008</b> , 4, 2035-42	11	20
143	Quantitative analysis of electronic properties of carbon nanotubes by scanning probe microscopy: from atomic to mesoscopic length scales. <i>Physical Review Letters</i> , <b>2004</b> , 93, 246801	7.4	20
142	An unexpected organometallic intermediate in surface-confined Ullmann coupling. <i>Nanoscale</i> , <b>2019</b> , 11, 7682-7689	7.7	19
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