

# Vincent Meunier

## List of Publications by Year in Descending Order

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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	Electronic properties of boron-rich graphene nanowiggles. <i>Computational Materials Science</i> , <b>2022</b> , 201, 110907	3.2	0
295	Exact and many-body perturbation solutions of the Hubbard model applied to linear chains. <i>AIP Advances</i> , <b>2022</b> , 12, 035238	1.5	
294	Electronic properties of 2D and 1D carbon allotropes based on a triphenylene structural unit. <i>Physical Chemistry Chemical Physics</i> , <b>2021</b> , 23, 25114-25125	3.6	0
293	Voltage-Dependent Barrier Height of Electron Transport through Iron Porphyrin Molecular Junctions. <i>Journal of Physical Chemistry C</i> , <b>2021</b> , 125, 7350-7357	3.8	1
292	Semi-empirical many-body formalism of optical absorption in nanosystems and molecules. <i>Carbon Trends</i> , <b>2021</b> , 4, 100073	0	2
291	Electronic properties of N-rich graphene nano-chevron. <i>Physical Chemistry Chemical Physics</i> , <b>2021</b> , 23, 13204-13215	3.6	1
290	Localization of lattice dynamics in low-angle twisted bilayer graphene. <i>Nature</i> , <b>2021</b> , 590, 405-409	50.4	46
289	Low-frequency Raman signature of Ag-intercalated few-layer MoS <sub>2</sub> . <i>2D Materials</i> , <b>2021</b> , 8, 025031	5.9	5
288	Partial charge transfer and absence of induced magnetization in EuS(111)/Bi <sub>2</sub> Se <sub>3</sub> heterostructures. <i>Physical Review B</i> , <b>2021</b> , 104,	3.3	2
287	Structural and electronic properties of double-walled Egraphyne nanotubes. <i>Computational Materials Science</i> , <b>2021</b> , 200, 110768	3.2	
286	Highly Selective, Defect-Induced Photocatalytic CO Reduction to Acetaldehyde by the Nb-Doped TiO Nanotube Array under Simulated Solar Illumination. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2020</b> , 12, 55982-55993	9.5	11
285	Electronic and structural properties of tetragraphenes. <i>Carbon</i> , <b>2020</b> , 167, 403-413	10.4	5
284	Substitutional transition metal doping in MoS <sub>2</sub> : a first-principles study. <i>Nano Express</i> , <b>2020</b> , 1, 010008	2	6
283	Reversible Pressure-Induced Partial Phase Transition in Few-Layer Black Phosphorus. <i>Nano Letters</i> , <b>2020</b> , 20, 5929-5935	11.5	7
282	Soliton signature in the phonon spectrum of twisted bilayer graphene. <i>2D Materials</i> , <b>2020</b> , 7, 025050	5.9	16
281	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
280	Carbon science perspective in 2020: Current research and future challenges. <i>Carbon</i> , <b>2020</b> , 161, 373-391	10.4	35

279	Sculpting Artificial Edges in Monolayer MoS for Controlled Formation of Surface-Enhanced Raman Hotspots. <i>ACS Nano</i> , <b>2020</b> , 14, 6258-6268	16.7	17
278	An Environmentally Stable and Lead-Free Chalcogenide Perovskite. <i>Advanced Functional Materials</i> , <b>2020</b> , 30, 2001387	15.6	23
277	Enabling room temperature ferromagnetism in monolayer MoS via in situ iron-doping. <i>Nature Communications</i> , <b>2020</b> , 11, 2034	17.4	46
276	Naphthylene-1D and 2D carbon allotropes based on the fusion of phenyl- and naphthyl-like groups. <i>Physical Review Materials</i> , <b>2020</b> , 4,	3.2	1
275	The effects of substitutional Fe-doping on magnetism in MoS <sub>2</sub> and WS <sub>2</sub> monolayers. <i>Nanotechnology</i> , <b>2020</b> ,	3.4	6
274	In-plane breathing and shear modes in low-dimensional nanostructures. <i>Carbon</i> , <b>2020</b> , 157, 364-370	10.4	6
273	Engineering Three-Dimensional (3D) Out-of-Plane Graphene Edge Sites for Highly Selective Two-Electron Oxygen Reduction Electrocatalysis. <i>ACS Catalysis</i> , <b>2020</b> , 10, 1993-2008	13.1	57
272	Machine-learning models for Raman spectra analysis of twisted bilayer graphene. <i>Carbon</i> , <b>2020</b> , 169, 455-464	10.4	8
271	Triphenylenes: two-dimensional acepentalene-based nanocarbon allotropes. <i>Physical Chemistry Chemical Physics</i> , <b>2020</b> , 22, 23195-23206	3.6	2
270	Optimized Substrates and Measurement Approaches for Raman Spectroscopy of Graphene Nanoribbons. <i>Physica Status Solidi (B): Basic Research</i> , <b>2019</b> , 256, 1900343	1.3	13
269	Theoretical analysis of spectral lineshapes from molecular dynamics. <i>Npj Computational Materials</i> , <b>2019</b> , 5,	10.9	5
268	Magnetic Proximity Coupling of Quantum Emitters in WSe to van der Waals Ferromagnets. <i>Nano Letters</i> , <b>2019</b> , 19, 7301-7308	11.5	12
267	A Universal Length-Dependent Vibrational Mode in Graphene Nanoribbons. <i>ACS Nano</i> , <b>2019</b> , 13, 13083-13091	16.7	15
266	Excitation to defect-bound band edge states in two-dimensional semiconductors and its effect on carrier transport. <i>Npj Computational Materials</i> , <b>2019</b> , 5,	10.9	13
265	Isotope-Engineering the Thermal Conductivity of Two-Dimensional MoS. <i>ACS Nano</i> , <b>2019</b> , 13, 2481-2489	16.7	32
264	Improved model of ionic transport in 2-D MoS <sub>2</sub> membranes with sub-5 nm pores. <i>Applied Physics Letters</i> , <b>2019</b> , 114, 023107	3.4	15
263	Modeling the Kondo effect of a magnetic atom adsorbed on graphene. <i>2D Materials</i> , <b>2019</b> , 6, 035038	5.9	3
262	On-Surface Synthesis and Characterization of Acene-Based Nanoribbons Incorporating Four-Membered Rings. <i>Chemistry - A European Journal</i> , <b>2019</b> , 25, 12074-12082	4.8	18

261	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
260	An unexpected organometallic intermediate in surface-confined Ullmann coupling. <i>Nanoscale</i> , <b>2019</b> , 11, 7682-7689	7.7	19
259	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
258	Carbon nanotube knots. <i>AIP Advances</i> , <b>2019</b> , 9, 025030	1.5	5
257	Phonon Anharmonicity in Few-Layer Black Phosphorus. <i>ACS Nano</i> , <b>2019</b> , 13, 10456-10468	16.7	18
256	Naphthylenes: 1D and 2D carbon allotropes based on naphthyl units. <i>Carbon</i> , <b>2019</b> , 153, 792-803	10.4	7
255	Effect of substitutional impurities on vibrational properties of zircon: a first-principles study. <i>Journal of Physics Condensed Matter</i> , <b>2019</b> , 31, 455402	1.8	1
254	Direct Observation of Symmetry-Dependent Electron-Phonon Coupling in Black Phosphorus. <i>Journal of the American Chemical Society</i> , <b>2019</b> , 141, 18994-19001	16.4	10
253	Electronic properties of tetragraphene nanoribbons. <i>Physical Review Materials</i> , <b>2019</b> , 3,	3.2	7
252	Structural and electronic properties of nanotubes constructed from fragmented fullerenes. <i>Carbon</i> , <b>2019</b> , 147, 616-627	10.4	4
251	Molecular Dynamics Investigation of Polylysine Peptide Translocation through MoS Nanopores. <i>Journal of Physical Chemistry B</i> , <b>2019</b> , 123, 2342-2353	3.4	11
250	First-principles study of the thermodynamic and vibrational properties of ReS <sub>2</sub> under pressure. <i>Physical Review B</i> , <b>2019</b> , 100,	3.3	5
249	Spin dependent transport in hybrid one dimensional BNC systems. <i>Semiconductor Science and Technology</i> , <b>2019</b> , 34, 015004	1.8	1
248	Shell model extension to the valence force field: application to single-layer black phosphorus. <i>Physical Chemistry Chemical Physics</i> , <b>2018</b> , 21, 322-328	3.6	5
247	A carbon science perspective in 2018: Current achievements and future challenges. <i>Carbon</i> , <b>2018</b> , 132, 785-801	10.4	59
246	Quantum oscillation in carrier transport in two-dimensional junctions. <i>Nanoscale</i> , <b>2018</b> , 10, 7912-7917	7.7	5
245	Electronic characterization of silicon intercalated chevron graphene nanoribbons on Au(111). <i>Chemical Communications</i> , <b>2018</b> , 54, 1619-1622	5.8	14
244	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

243	Revealing out-of-equilibrium hidden phases in Sr <sub>3</sub> Ru <sub>2</sub> O <sub>7</sub> by applying stress. <i>Physical Review B</i> , <b>2018</b> , 97, 035111	3.3	1
242	Stochasticity in materials structure, properties, and processing-A review. <i>Applied Physics Reviews</i> , <b>2018</b> , 5, 011301	17.3	10
241	Effect of pressure on the Raman-active modes of zircon (ZrSiO <sub>4</sub> ): a first-principles study. <i>Physics and Chemistry of Minerals</i> , <b>2018</b> , 45, 173-184	1.6	8
240	Engineering of robust topological quantum phases in graphene nanoribbons. <i>Nature</i> , <b>2018</b> , 560, 209-213	50.4	227
239	Finite temperature stability of single-layer black and blue phosphorus adsorbed on Au(1 1 1): a first-principles study. <i>2D Materials</i> , <b>2018</b> , 5, 035044	5.9	11
238	High efficiency spin-valve and spin-filter in a doped rhombic graphene quantum dot device. <i>Journal of Magnetism and Magnetic Materials</i> , <b>2018</b> , 451, 532-539	2.8	3
237	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
236	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
235	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
234	Pressure Tuning of Bromine Ionic States in Double-Walled Carbon Nanotubes. <i>Journal of Physical Chemistry C</i> , <b>2017</b> , 121, 10609-10619	3.8	6
233	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
232	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
231	Quantum Dots in Graphene Nanoribbons. <i>Nano Letters</i> , <b>2017</b> , 17, 4277-4283	11.5	74
230	Quantum confinement in black phosphorus-based nanostructures. <i>Journal of Physics Condensed Matter</i> , <b>2017</b> , 29, 283001	1.8	15
229	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
228	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
227	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, 041407	3.3	20
226	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

225	Predicting hidden bulk phases from surface phases in bilayered SrRuO. <i>Scientific Reports</i> , <b>2017</b> , 7, 10265	4.9	3
224	Seamless Staircase Electrical Contact to Semiconducting Graphene Nanoribbons. <i>Nano Letters</i> , <b>2017</b> , 17, 6241-6247	11.5	51
223	One- and two-dimensional carbon nanostructures based on unfolded buckyballs: An ab initio investigation of their electronic properties. <i>Physical Review B</i> , <b>2017</b> , 95,	3.3	10
222	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
221	Half-metallic ferromagnetism in Sr <sub>3</sub> Ru <sub>2</sub> O <sub>7</sub> . <i>Physical Review B</i> , <b>2017</b> , 95,	3.3	8
220	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
219	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
218	Periodic Arrays of Phosphorene Nanopores as Antidot Lattices with Tunable Properties. <i>ACS Nano</i> , <b>2017</b> , 11, 7494-7507	16.7	29
217	Atomic-layered MoS <sub>2</sub> on SiO <sub>2</sub> under high pressure: Bimodal adhesion and biaxial strain effects. <i>Physical Review Materials</i> , <b>2017</b> , 1,	3.2	16
216	Charged iodide in chains behind the highly efficient iodine doping in carbon nanotubes. <i>Physical Review Materials</i> , <b>2017</b> , 1,	3.2	19
215	Phonon-Enabled Carrier Transport of Localized States at Non-Polar Semiconductor Surfaces: A First-Principles-Based Prediction. <i>Journal of Physical Chemistry Letters</i> , <b>2016</b> , 7, 3548-53	6.4	5
214	Mechanistic Picture and Kinetic Analysis of Surface-Confined Ullmann Polymerization. <i>Journal of the American Chemical Society</i> , <b>2016</b> , 138, 16696-16702	16.4	63
213	Electronic, vibrational, Raman, and scanning tunneling microscopy signatures of two-dimensional boron nanomaterials. <i>Physical Review B</i> , <b>2016</b> , 94,	3.3	11
212	Transition-Metal Substitution Doping in Synthetic Atomically Thin Semiconductors. <i>Advanced Materials</i> , <b>2016</b> , 28, 9735-9743	24	145
211	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
210	Uniaxial pressure-induced half-metallic ferromagnetic phase transition in LaMnO <sub>3</sub> . <i>Physical Review B</i> , <b>2016</b> , 93,	3.3	15
209	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
208	Catalytic Dealkylation of Ethers to Alcohols on Metal Surfaces. <i>Angewandte Chemie - International Edition</i> , <b>2016</b> , 55, 9881-5	16.4	17

207	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
206	Catalytic Dealkylation of Ethers to Alcohols on Metal Surfaces. <i>Angewandte Chemie</i> , <b>2016</b> , 128, 10035-10039	10.8	6
205	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
204	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
203	Raman Shifts in Electron-Irradiated Monolayer MoS <sub>2</sub> . <i>ACS Nano</i> , <b>2016</b> , 10, 4134-42	16.7	226
202	Anisotropic Electron-Photon and Electron-Phonon Interactions in Black Phosphorus. <i>Nano Letters</i> , <b>2016</b> , 16, 2260-7	11.5	266
201	Investigating Orientational Defects in Energetic Material RDX Using First-Principles Calculations. <i>Journal of Physical Chemistry A</i> , <b>2016</b> , 120, 1917-24	2.8	6
200	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
199	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
198	Electronic, transport, and magnetic properties of punctured carbon nanotubes. <i>Physical Review B</i> , <b>2016</b> , 94,	3.3	2
197	Controlled Sculpture of Black Phosphorus Nanoribbons. <i>ACS Nano</i> , <b>2016</b> , 10, 5687-95	16.7	84
196	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
195	Graphene ripples as a realization of a two-dimensional Ising model: A scanning tunneling microscope study. <i>Physical Review B</i> , <b>2015</b> , 91,	3.3	19
194	Improved all-carbon spintronic device design. <i>Scientific Reports</i> , <b>2015</b> , 5, 7634	4.9	38
193	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
192	Low-Frequency Interlayer Breathing Modes in Few-Layer Black Phosphorus. <i>Nano Letters</i> , <b>2015</b> , 15, 4080-8	18.5	154
191	Temperature-dependent and bistable current-voltage measurements in zinc porphyrin molecular junctions. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2015</b> , 7, 10085-90	9.5	4
190	Molecular selectivity of graphene-enhanced Raman scattering. <i>Nano Letters</i> , <b>2015</b> , 15, 2892-901	11.5	136



189	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
188	Recent Advances in Two-Dimensional Materials beyond Graphene. <i>ACS Nano</i> , <b>2015</b> , 9, 11509-39	16.7	1581
187	Charge carrier transport and separation in pristine and nitrogen-doped graphene nanowiggle heterostructures. <i>Carbon</i> , <b>2015</b> , 95, 833-842	10.4	13
186	On-Surface Synthesis of BN-Substituted Heteroaromatic Networks. <i>ACS Nano</i> , <b>2015</b> , 9, 9228-35	16.7	64
185	Elastic, plastic, and fracture mechanisms in graphene materials. <i>Journal of Physics Condensed Matter</i> , <b>2015</b> , 27, 373002	1.8	22
184	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
183	Up and down translocation events and electric double-layer formation inside solid-state nanopores. <i>Physical Review E</i> , <b>2015</b> , 92, 022715	2.4	3
182	(Invited) Microscopic Studies of Black Phosphorus and Its Field-Effect Transistors. <i>ECS Transactions</i> , <b>2015</b> , 69, 93-104	1	
181	Electronic, structural, and substrate effect properties of single-layer covalent organic frameworks. <i>Journal of Chemical Physics</i> , <b>2015</b> , 142, 184708	3.9	15
180	DNA Translocation in Nanometer Thick Silicon Nanopores. <i>ACS Nano</i> , <b>2015</b> , 9, 6555-64	16.7	62
179	Electronic transport of recrystallized freestanding graphene nanoribbons. <i>ACS Nano</i> , <b>2015</b> , 9, 3510-20	16.7	43
178	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
177	Electrolyte Diffusion in Gyroidal Nanoporous Carbon. <i>Journal of Physical Chemistry C</i> , <b>2015</b> , 119, 2896-2908	3.8	6
176	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
175	Electronic transport properties in graphene oxide frameworks. <i>Physical Review B</i> , <b>2014</b> , 89,	3.3	9
174	Nonlinear photon-assisted tunneling transport in optical gap antennas. <i>Nano Letters</i> , <b>2014</b> , 14, 2330-8	11.5	53
173	Electronic bandgap and edge reconstruction in phosphorene materials. <i>Nano Letters</i> , <b>2014</b> , 14, 6400-6	11.5	365
172	Reply to "comment on "insight into organometallic intermediate and its evolution to covalent bonding in surface-confined Ullmann polymerization"". <i>ACS Nano</i> , <b>2014</b> , 8, 1969-71	16.7	17



171	Graphene nanoribbon heterojunctions. <i>Nature Nanotechnology</i> , <b>2014</b> , 9, 896-900	28.7	443
170	Electronic and magnetic structures of coronene-based graphitic nanoribbons. <i>Physical Chemistry Chemical Physics</i> , <b>2014</b> , 16, 3603-9	3.6	8
169	Interfacial properties and design of functional energy materials. <i>Accounts of Chemical Research</i> , <b>2014</b> , 47, 3395-405	24.3	13
168	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
167	Emergent magnetism in irradiated graphene nanostructures. <i>Carbon</i> , <b>2014</b> , 78, 196-203	10.4	7
166	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
165	Tunable water desalination across graphene oxide framework membranes. <i>Physical Chemistry Chemical Physics</i> , <b>2014</b> , 16, 8646-54	3.6	159
164	Heterospin Junctions in Zigzag-Edged Graphene Nanoribbons. <i>Applied Sciences (Switzerland)</i> , <b>2014</b> , 4, 351-365	2.6	1
163	Electronic transport in three-terminal triangular carbon nanopatches. <i>Nanotechnology</i> , <b>2014</b> , 25, 045706	3.4	3
162	Quantifying energetics of topological frustration in carbon nanostructures. <i>Physical Review B</i> , <b>2014</b> , 89,	3.3	9
161	Electronic properties of three-terminal graphitic nanowiggles. <i>Physical Review B</i> , <b>2014</b> , 90,	3.3	2
160	Role of antiferromagnetic ordering in the (10) surface reconstruction of Ca(Fe <sub>1-x</sub> Co <sub>x</sub> ) <sub>2</sub> As <sub>2</sub> . <i>Physical Review Letters</i> , <b>2014</b> , 112, 077205	7.4	6
159	Nanoribbons: Nitrogen-Doped Graphitic Nanoribbons: Synthesis, Characterization, and Transport (Adv. Funct. Mater. 30/2013). <i>Advanced Functional Materials</i> , <b>2013</b> , 23, 3714-3714	15.6	
158	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
157	A reversible strain-induced electrical conductivity in cup-stacked carbon nanotubes. <i>Nanoscale</i> , <b>2013</b> , 5, 10212-8	7.7	10
156	Quasiparticle band gaps of graphene nanowiggles and their magnetism on Au(111). <i>Physical Review B</i> , <b>2013</b> , 88,	3.3	14
155	Nitrogen-Doped Graphitic Nanoribbons: Synthesis, Characterization, and Transport. <i>Advanced Functional Materials</i> , <b>2013</b> , 23, 3755-3762	15.6	28
154	Electronic Transport in Graphitic Carbon Nanoribbons <b>2013</b> , 319-346		2

153	Patchwork algorithm for the parallel computation of the Green's function in open systems. <i>Journal of Computational Electronics</i> , <b>2013</b> , 12, 123-133	1.8	14
152	Molecular Dynamics Simulations of Graphene Oxide Frameworks. <i>Journal of Chemical Theory and Computation</i> , <b>2013</b> , 9, 4890-900	6.4	27
151	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
150	Nanodrilling: Iron Particle Nanodrilling of Few Layer Graphene at Low Electron Beam Accelerating Voltages (Part. Part. Syst. Charact. 1/2013). <i>Particle and Particle Systems Characterization</i> , <b>2013</b> , 30, 75-79 <sup>3.1</sup>	3.1	8
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