

Vincent Meunier

List of Publications by Year in descending order

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310
papers

23,697
citations

8732

75
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8599

146
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317
all docs

317
docs citations

317
times ranked

27552
citing authors

#	ARTICLE	IF	CITATIONS
1	Quantum theory of electronic excitation and sputtering by transmission electron microscopy. <i>Nanoscale</i> , 2023, 15, 1053-1067.	2.8	5
2	Electronic properties of boron-rich graphene nanowiggles. <i>Computational Materials Science</i> , 2022, 201, 110907.	1.4	1
3	Nearly free phonons in a weak soliton potential and the case of twisted bilayer graphene. <i>Physical Review B</i> , 2022, 105, .	1.1	0
4	Exact and many-body perturbation solutions of the Hubbard model applied to linear chains. <i>AIP Advances</i> , 2022, 12, .	0.6	4
5	Carbon science perspective in 2022: Current research and future challenges. <i>Carbon</i> , 2022, 195, 272-291.	5.4	19
6	Electronic and vibrational properties of bulk Cr_2N from first-principles calculations. <i>Physical Review B</i> , 2022, 105, .	2.1	0
7	Growth Optimization and Device Integration of Narrow-Bandgap Graphene Nanoribbons. <i>Small</i> , 2022, 18, .	5.2	17
8	Electronic properties of carbon sheets and nanoribbons based on acepentalene-like building blocks. <i>Computational Materials Science</i> , 2022, 211, 111520.	1.4	0
9	Electronic and magnetic properties of tripentaphene nanoribbons. <i>Physical Review Materials</i> , 2022, 6, .	0.9	2
10	Electronic properties of N-rich graphene nano-chevronns. <i>Physical Chemistry Chemical Physics</i> , 2021, 23, 13204-13215.	1.3	6
11	Localization of lattice dynamics in low-angle twisted bilayer graphene. <i>Nature</i> , 2021, 590, 405-409.	13.7	139
12	Low-frequency Raman signature of Ag-intercalated few-layer MoS_2 . <i>2D Materials</i> , 2021, 8, 025031.	2.0	9
13	Voltage-Dependent Barrier Height of Electron Transport through Iron Porphyrin Molecular Junctions. <i>Journal of Physical Chemistry C</i> , 2021, 125, 7350-7357.	1.5	1
14	Electronic localization in small-angle twisted bilayer graphene. <i>2D Materials</i> , 2021, 8, 035046.	2.0	25
15	Semi-empirical many-body formalism of optical absorption in nanosystems and molecules. <i>Carbon Trends</i> , 2021, 4, 100073.	1.4	3
16	Partial charge transfer and absence of induced magnetization in $\text{EuS}(111)/\text{Bi}_2\text{Se}_3$ heterostructures. <i>Physical Review B</i> , 2021, 104, .	1.1	7
17	Structural and electronic properties of double-walled $\hat{1}\pm$ -graphyne nanotubes. <i>Computational Materials Science</i> , 2021, 200, 110768.	1.4	1
18	The effects of substitutional Fe-doping on magnetism in MoS_2 and WS_2 monolayers. <i>Nanotechnology</i> , 2021, 32, 095708.	1.3	18

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19	Electronic properties of 2D and 1D carbon allotropes based on a triphenylene structural unit. <i>Physical Chemistry Chemical Physics</i> , 2021, 23, 25114-25125.	1.3	7
20	In-plane breathing and shear modes in low-dimensional nanostructures. <i>Carbon</i> , 2020, 157, 364-370.	5.4	14
21	Engineering Three-Dimensional (3D) Out-of-Plane Graphene Edge Sites for Highly Selective Two-Electron Oxygen Reduction Electrocatalysis. <i>ACS Catalysis</i> , 2020, 10, 1993-2008.	5.5	106
22	Machine-learning models for Raman spectra analysis of twisted bilayer graphene. <i>Carbon</i> , 2020, 169, 455-464.	5.4	24
23	Triphenylenes: two-dimensional acepentalene-based nanocarbon allotropes. <i>Physical Chemistry Chemical Physics</i> , 2020, 22, 23195-23206.	1.3	10
24	Highly Selective, Defect-Induced Photocatalytic CO ₂ Reduction to Acetaldehyde by the Nb-Doped TiO ₂ Nanotube Array under Simulated Solar Illumination. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 55982-55993.	4.0	39
25	Electronic and structural properties of tetragraphenes. <i>Carbon</i> , 2020, 167, 403-413.	5.4	11
26	Substitutional transition metal doping in MoS ₂ : a first-principles study. <i>Nano Express</i> , 2020, 1, 010008.	1.2	20
27	Reversible Pressure-Induced Partial Phase Transition in Few-Layer Black Phosphorus. <i>Nano Letters</i> , 2020, 20, 5929-5935.	4.5	21
28	Soliton signature in the phonon spectrum of twisted bilayer graphene. <i>2D Materials</i> , 2020, 7, 025050.	2.0	34
29	Massive Dirac Fermion Behavior in a Low Bandgap Graphene Nanoribbon Near a Topological Phase Boundary. <i>Advanced Materials</i> , 2020, 32, e1906054.	11.1	44
30	Carbon science perspective in 2020: Current research and future challenges. <i>Carbon</i> , 2020, 161, 373-391.	5.4	77
31	Sculpting Artificial Edges in Monolayer MoS ₂ for Controlled Formation of Surface-Enhanced Raman Hotspots. <i>ACS Nano</i> , 2020, 14, 6258-6268.	7.3	45
32	An Environmentally Stable and Lead-Free Chalcogenide Perovskite. <i>Advanced Functional Materials</i> , 2020, 30, 2001387.	7.8	52
33	Enabling room temperature ferromagnetism in monolayer MoS ₂ via in situ iron-doping. <i>Nature Communications</i> , 2020, 11, 2034.	5.8	112
34	Naphthylene- λ^3 : 1D and 2D carbon allotropes based on the fusion of phenyl- and naphthyl-like groups. <i>Physical Review Materials</i> , 2020, 4, .	0.9	4
35	Phonon Anharmonicity in Few-Layer Black Phosphorus. <i>ACS Nano</i> , 2019, 13, 10456-10468.	7.3	34
36	Naphthylenes: 1D and 2D carbon allotropes based on naphthyl units. <i>Carbon</i> , 2019, 153, 792-803.	5.4	23

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37	Effect of substitutional impurities on vibrational properties of zircon: a first-principles study. <i>Journal of Physics Condensed Matter</i> , 2019, 31, 455402.	0.7	5
38	Direct Observation of Symmetry-Dependent Electron-Phonon Coupling in Black Phosphorus. <i>Journal of the American Chemical Society</i> , 2019, 141, 18994-19001.	6.6	21
39	Optimized Substrates and Measurement Approaches for Raman Spectroscopy of Graphene Nanoribbons. <i>Physica Status Solidi (B): Basic Research</i> , 2019, 256, 1900343.	0.7	26
40	Theoretical analysis of spectral lineshapes from molecular dynamics. <i>Npj Computational Materials</i> , 2019, 5, .	3.5	6
41	Magnetic Proximity Coupling of Quantum Emitters in WSe_2 to van der Waals Ferromagnets. <i>Nano Letters</i> , 2019, 19, 7301-7308.	4.5	21
42	A Universal Length-Dependent Vibrational Mode in Graphene Nanoribbons. <i>ACS Nano</i> , 2019, 13, 13083-13091.	7.3	36
43	Excitation to defect-bound band edge states in two-dimensional semiconductors and its effect on carrier transport. <i>Npj Computational Materials</i> , 2019, 5, .	3.5	20
44	Shell model extension to the valence force field: application to single-layer black phosphorus. <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 322-328.	1.3	5
45	Isotope-Engineering the Thermal Conductivity of Two-Dimensional MoS_2 . <i>ACS Nano</i> , 2019, 13, 2481-2489.	7.3	42
46	Improved model of ionic transport in 2-D MoS_2 membranes with sub-5%nm pores. <i>Applied Physics Letters</i> , 2019, 114, 023107.	1.5	19
47	Modeling the Kondo effect of a magnetic atom adsorbed on graphene. <i>2D Materials</i> , 2019, 6, 035038.	2.0	3
48	On-Surface Synthesis and Characterization of Acene-Based Nanoribbons Incorporating Four-Membered Rings. <i>Chemistry - A European Journal</i> , 2019, 25, 12074-12082.	1.7	38
49	Vanadium disulfide flakes with nanolayered titanium disulfide coating as cathode materials in lithium-ion batteries. <i>Nature Communications</i> , 2019, 10, 1764.	5.8	73
50	An unexpected organometallic intermediate in surface-confined Ullmann coupling. <i>Nanoscale</i> , 2019, 11, 7682-7689.	2.8	29
51	Surface-Synthesized Graphene Nanoribbons for Room Temperature Switching Devices: Substrate Transfer and <i>ex Situ</i> Characterization. <i>ACS Applied Nano Materials</i> , 2019, 2, 2184-2192.	2.4	75
52	Carbon nanotube knots. <i>AIP Advances</i> , 2019, 9, 025030.	0.6	6
53	Structural and electronic properties of nanotubes constructed from fragmented fullerenes. <i>Carbon</i> , 2019, 147, 616-627.	5.4	10
54	Molecular Dynamics Investigation of Polylysine Peptide Translocation through MoS_2 Nanopores. <i>Journal of Physical Chemistry B</i> , 2019, 123, 2342-2353.	1.2	15

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55	First-principles study of the thermodynamic and vibrational properties of ReS_2 under pressure. <i>Physical Review B</i> , 2019, 100, .		
56	Spin dependent transport in hybrid one dimensional BNC systems. <i>Semiconductor Science and Technology</i> , 2019, 34, 015004.	1.0	2
57	Electronic properties of tetragraphene nanoribbons. <i>Physical Review Materials</i> , 2019, 3, .	0.9	14
58	A carbon science perspective in 2018: Current achievements and future challenges. <i>Carbon</i> , 2018, 132, 785-801.	5.4	80
59	Quantum oscillation in carrier transport in two-dimensional junctions. <i>Nanoscale</i> , 2018, 10, 7912-7917.	2.8	5
60	Electronic characterization of silicon intercalated chevron graphene nanoribbons on Au(111). <i>Chemical Communications</i> , 2018, 54, 1619-1622.	2.2	19
61	First-principles simulation of local response in transition metal dichalcogenides under electron irradiation. <i>Nanoscale</i> , 2018, 10, 2388-2397.	2.8	34
62	Revealing out-of-equilibrium hidden phases in $\text{Sr}_3\text{Ru}_2\text{O}_7$ by applying stress. <i>Physical Review B</i> , 2018, 97, .	1.1	2
63	Stochasticity in materials structure, properties, and processing—A review. <i>Applied Physics Reviews</i> , 2018, 5, .	5.5	15
64	Effect of pressure on the Raman-active modes of zircon (ZrSiO_4): a first-principles study. <i>Physics and Chemistry of Minerals</i> , 2018, 45, 173-184.	0.3	12
65	High efficiency spin-valve and spin-filter in a doped rhombic graphene quantum dot device. <i>Journal of Magnetism and Magnetic Materials</i> , 2018, 451, 532-539.	1.0	8
66	Theoretical and Experimental Insight into the Mechanism for Spontaneous Vertical Growth of ReS_2 Nanosheets. <i>Advanced Functional Materials</i> , 2018, 28, 1801286.	7.8	35
67	Engineering of robust topological quantum phases in graphene nanoribbons. <i>Nature</i> , 2018, 560, 209-213.	13.7	397
68	Finite temperature stability of single-layer black and blue phosphorus adsorbed on Au(111): a first-principles study. <i>2D Materials</i> , 2018, 5, 035044.	2.0	14
69	On-Surface Synthesis and Characterization of 9-Atom Wide Armchair Graphene Nanoribbons. <i>ACS Nano</i> , 2017, 11, 1380-1388.	7.3	270
70	Quantum-Confined Stark Effect of Individual Defects in a van der Waals Heterostructure. <i>Nano Letters</i> , 2017, 17, 2253-2258.	4.5	81
71	Pressure Tuning of Bromine Ionic States in Double-Walled Carbon Nanotubes. <i>Journal of Physical Chemistry C</i> , 2017, 121, 10609-10619.	1.5	8
72	Nonmagnetic Quantum Emitters in Boron Nitride with Ultranarrow and Sideband-Free Emission Spectra. <i>ACS Nano</i> , 2017, 11, 6652-6660.	7.3	105

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73	Nanowire-Mesh-Templated Growth of Out-of-Plane Three-Dimensional Fuzzy Graphene. ACS Nano, 2017, 11, 6301-6311.	7.3	46
74	Quantum Dots in Graphene Nanoribbons. Nano Letters, 2017, 17, 4277-4283.	4.5	99
75	Quantum confinement in black phosphorus-based nanostructures. Journal of Physics Condensed Matter, 2017, 29, 283001.	0.7	22
76	Heteroatom-Doped Perihexacene from a Double Helicene Precursor: On-Surface Synthesis and Properties. Journal of the American Chemical Society, 2017, 139, 4671-4674.	6.6	61
77	Revealing the Electronic Structure of Silicon Intercalated Armchair Graphene Nanoribbons by Scanning Tunneling Spectroscopy. Nano Letters, 2017, 17, 2197-2203.	4.5	92
78	Charged defects in two-dimensional semiconductors of arbitrary thickness and geometry: Formulation and application to few-layer black phosphorus. Physical Review B, 2017, 96, .	1.1	28
79	Interlayer bond polarizability model for stacking-dependent low-frequency Raman scattering in layered materials. Nanoscale, 2017, 9, 15340-15355.	2.8	38
80	Predicting hidden bulk phases from surface phases in bilayered Sr ₃ Ru ₂ O ₇ . Scientific Reports, 2017, 7, 10265.	1.6	7
81	Seamless Staircase Electrical Contact to Semiconducting Graphene Nanoribbons. Nano Letters, 2017, 17, 6241-6247.	4.5	64
82	One- and two-dimensional carbon nanostructures based on unfolded buckyballs: An <i>ab initio</i> investigation of their electronic properties. Physical Review B, 2017, 95, .	1.1	13
83	Anomalous vibrational modes in few layer WTe ₂ revealed by polarized Raman scattering and first-principles calculations. 2D Materials, 2017, 4, 035024. Half-metallic ferromagnetism in	2.0	27
84	SrRu_2O_7 . Physical Review B, 2017, 95, .	1.1	10
85	On-Surface Cyclization of <i>ortho</i> -Dihalotetracenes to Four- and Six-Membered Rings. Journal of the American Chemical Society, 2017, 139, 17617-17623.	6.6	68
86	Low-Frequency Shear and Layer-Breathing Modes in Raman Scattering of Two-Dimensional Materials. ACS Nano, 2017, 11, 11777-11802.	7.3	179
87	Periodic Arrays of Phosphorene Nanopores as Antidot Lattices with Tunable Properties. ACS Nano, 2017, 11, 7494-7507.	7.3	42
88	Atomic-layered MoS ₂ on SiO ₂ under high pressure: Bimodal adhesion and biaxial strain effects. Physical Review Materials, 2017, 1, .	0.9	21
89	Charged iodide in chains behind the highly efficient iodine doping in carbon nanotubes. Physical Review Materials, 2017, 1, .	0.9	25
90	Electronic, transport, and magnetic properties of punctured carbon nanotubes. Physical Review B, 2016, 94, .	1.1	3

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91	Controlled Sculpture of Black Phosphorus Nanoribbons. ACS Nano, 2016, 10, 5687-5695.	7.3	111
92	Width and Crystal Orientation Dependent Band Gap Renormalization in Substrate-Supported Graphene Nanoribbons. Journal of Physical Chemistry Letters, 2016, 7, 1526-1533.	2.1	47
93	Phonon-Enabled Carrier Transport of Localized States at Non-Polar Semiconductor Surfaces: A First-Principles-Based Prediction. Journal of Physical Chemistry Letters, 2016, 7, 3548-3553.	2.1	6
94	Mechanistic Picture and Kinetic Analysis of Surface-Confined Ullmann Polymerization. Journal of the American Chemical Society, 2016, 138, 16696-16702.	6.6	81
95	Electronic, vibrational, Raman, and scanning tunneling microscopy signatures of two-dimensional boron nanomaterials. Physical Review B, 2016, 94, .	1.1	21
96	Transition-Metal Substitution Doping in Synthetic Atomically Thin Semiconductors. Advanced Materials, 2016, 28, 9735-9743.	11.1	208
97	Electronic, structural, and magnetic properties of LaMnO_3 transition at high temperature. Physical Review B, 2016, 93, .	1.1	19
98	Uniaxial pressure-induced half-metallic ferromagnetic phase transition in LaMnO_3 . Physical Review B, 2016, 93, .	1.1	19
99	Physical properties of low-dimensional carbon nanostructures. Reviews of Modern Physics, 2016, 88, .	10.1	160
100	Catalytic Dealkylation of Ethers to Alcohols on Metal Surfaces. Angewandte Chemie - International Edition, 2016, 55, 9881-9885.	7.2	23
101	The role of collective motion in the ultrafast charge transfer in van der Waals heterostructures. Nature Communications, 2016, 7, 11504.	5.8	103
102	Catalytic Dealkylation of Ethers to Alcohols on Metal Surfaces. Angewandte Chemie, 2016, 128, 10035-10039.	1.6	9
103	Low-Frequency Interlayer Raman Modes to Probe Interface of Twisted Bilayer MoS ₂ . Nano Letters, 2016, 16, 1435-1444.	4.5	177
104	Twisted MoSe ₂ Bilayers with Variable Local Stacking and Interlayer Coupling Revealed by Low-Frequency Raman Spectroscopy. ACS Nano, 2016, 10, 2736-2744.	7.3	117
105	Raman Shifts in Electron-Irradiated Monolayer MoS ₂ . ACS Nano, 2016, 10, 4134-4142.	7.3	311
106	Anisotropic Electron-Photon and Electron-Phonon Interactions in Black Phosphorus. Nano Letters, 2016, 16, 2260-2267.	4.5	328
107	Investigating Orientational Defects in Energetic Material RDX Using First-Principles Calculations. Journal of Physical Chemistry A, 2016, 120, 1917-1924.	1.1	8
108	Ultrathin nanosheets of CrSiTe ₃ : a semiconducting two-dimensional ferromagnetic material. Journal of Materials Chemistry C, 2016, 4, 315-322.	2.7	235

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109	Quasi one-dimensional band dispersion and surface metallization in long-range ordered polymeric wires. <i>Nature Communications</i> , 2016, 7, 10235.	5.8	91
110	Electronic Transport in Carbon Nanomaterials. , 2016, , 1084-1101.		0
111	Up and down translocation events and electric double-layer formation inside solid-state nanopores. <i>Physical Review E</i> , 2015, 92, 022715.	0.8	6
112	(Invited) Microscopic Studies of Black Phosphorus and Its Field-Effect Transistors. <i>ECS Transactions</i> , 2015, 69, 93-104.	0.3	0
113	Electronic, structural, and substrate effect properties of single-layer covalent organic frameworks. <i>Journal of Chemical Physics</i> , 2015, 142, 184708.	1.2	19
114	DNA Translocation in Nanometer Thick Silicon Nanopores. <i>ACS Nano</i> , 2015, 9, 6555-6564.	7.3	76
115	Electronic Transport of Recrystallized Freestanding Graphene Nanoribbons. <i>ACS Nano</i> , 2015, 9, 3510-3520.	7.3	44
116	Atomically Precise Graphene Nanoribbon Heterojunctions for Excitonic Solar Cells. <i>Journal of Physical Chemistry C</i> , 2015, 119, 775-783.	1.5	34
117	Electrolyte Diffusion in Gyroidal Nanoporous Carbon. <i>Journal of Physical Chemistry C</i> , 2015, 119, 2896-2903.	1.5	8
118	Graphene ripples as a realization of a two-dimensional Ising model: A scanning tunneling microscope study. <i>Physical Review B</i> , 2015, 91, .	1.1	22
119	Improved All-Carbon Spintronic Device Design. <i>Scientific Reports</i> , 2015, 5, 7634.	1.6	52
120	Low-Frequency Raman Fingerprints of Two-Dimensional Metal Dichalcogenide Layer Stacking Configurations. <i>ACS Nano</i> , 2015, 9, 6333-6342.	7.3	151
121	Low-Frequency Interlayer Breathing Modes in Few-Layer Black Phosphorus. <i>Nano Letters</i> , 2015, 15, 4080-4088.	4.5	182
122	Temperature-Dependent and Bistable Current-Voltage Measurements in Zinc Porphyrin Molecular Junctions. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 10085-10090.	4.0	4
123	Molecular Selectivity of Graphene-Enhanced Raman Scattering. <i>Nano Letters</i> , 2015, 15, 2892-2901.	4.5	177
124	Ultrasensitive gas detection of large-area boron-doped graphene. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 14527-14532.	3.3	177
125	Recent Advances in Two-Dimensional Materials beyond Graphene. <i>ACS Nano</i> , 2015, 9, 11509-11539.	7.3	2,069
126	Charge carrier transport and separation in pristine and nitrogen-doped graphene nanowiggle heterostructures. <i>Carbon</i> , 2015, 95, 833-842.	5.4	16

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127	On-Surface Synthesis of BN-Substituted Heteroaromatic Networks. ACS Nano, 2015, 9, 9228-9235.	7.3	78
128	Elastic, plastic, and fracture mechanisms in graphene materials. Journal of Physics Condensed Matter, 2015, 27, 373002.	0.7	26
129	Enhanced Raman Scattering on In-Plane Anisotropic Layered Materials. Journal of the American Chemical Society, 2015, 137, 15511-15517.	6.6	122
130	Heterospin Junctions in Zigzag-Edged Graphene Nanoribbons. Applied Sciences (Switzerland), 2014, 4, 351-365.	1.3	1
131	Electronic transport in three-terminal triangular carbon nanopatches. Nanotechnology, 2014, 25, 045706.	1.3	3
132	Quantifying energetics of topological frustration in carbon nanostructures. Physical Review B, 2014, 89, .	1.1	9
133	Electronic properties of three-terminal graphitic nanowiggles. Physical Review B, 2014, 90, .	1.1	4
134	Role of Antiferromagnetic Ordering in the (1 $\bar{1}$ -2) Surface Reconstruction of Ca(Fe $_{1-x}$ Cox) $_2$ As $_2$. Physical Review Letters, 2014, 112, 077205.	2.9	7
135	First-principles Raman spectra of MoS $_2$, WS $_2$ and their heterostructures. Nanoscale, 2014, 6, 5394.	2.8	348
136	Electronic transport properties in graphene oxide frameworks. Physical Review B, 2014, 89, .	1.1	10
137	Nonlinear Photon-Assisted Tunneling Transport in Optical Gap Antennas. Nano Letters, 2014, 14, 2330-2338.	4.5	68
138	Electronic Bandgap and Edge Reconstruction in Phosphorene Materials. Nano Letters, 2014, 14, 6400-6406.	4.5	459
139	Reply to "Comment on "Insight into Organometallic Intermediate and Its Evolution to Covalent Bonding in Surface-Confined Ullmann Polymerization" ACS Nano, 2014, 8, 1969-1971.	7.3	19
140	Graphene nanoribbon heterojunctions. Nature Nanotechnology, 2014, 9, 896-900.	15.6	528
141	Electronic and magnetic structures of coronene-based graphitic nanoribbons. Physical Chemistry Chemical Physics, 2014, 16, 3603.	1.3	10
142	Interfacial Properties and Design of Functional Energy Materials. Accounts of Chemical Research, 2014, 47, 3395-3405.	7.6	14
143	Carbon Kagome Lattice and Orbital-Frustration-Induced Metal-Insulator Transition for Optoelectronics. Physical Review Letters, 2014, 113, 085501.	2.9	49
144	Emergent magnetism in irradiated graphene nanostructures. Carbon, 2014, 78, 196-203.	5.4	9

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145	Probing the Interlayer Coupling of Twisted Bilayer MoS ₂ Using Photoluminescence Spectroscopy. Nano Letters, 2014, 14, 5500-5508.	4.5	228
146	Tunable water desalination across graphene oxide framework membranes. Physical Chemistry Chemical Physics, 2014, 16, 8646.	1.3	194
147	Nanoribbons: Nitrogen-Doped Graphitic Nanoribbons: Synthesis, Characterization, and Transport (Adv. Tj ETQq1_1_0.784314 rgBT /O	7.8	0
148	Electronic and thermoelectric properties of assembled graphene nanoribbons with elastic strain and structural dislocation. Applied Physics Letters, 2013, 102, .	1.5	31
149	A reversible strain-induced electrical conductivity in cup-stacked carbon nanotubes. Nanoscale, 2013, 5, 10212.	2.8	12
150	Quasiparticle band gaps of graphene nanowiggles and their magnetism on Au(111). Physical Review B, 2013, 88, .	1.1	15
151	Nitrogen-Doped Graphitic Nanoribbons: Synthesis, Characterization, and Transport. Advanced Functional Materials, 2013, 23, 3755-3762.	7.8	31
152	Patchwork algorithm for the parallel computation of the Green's function in open systems. Journal of Computational Electronics, 2013, 12, 123-133.	1.3	17
153	Molecular Dynamics Simulations of Graphene Oxide Frameworks. Journal of Chemical Theory and Computation, 2013, 9, 4890-4900.	2.3	35
154	Iron Particle Nanodrilling of Few Layer Graphene at Low Electron Beam Accelerating Voltages. Particle and Particle Systems Characterization, 2013, 30, 76-82.	1.2	9
155	Nanodrilling: Iron Particle Nanodrilling of Few Layer Graphene at Low Electron Beam Accelerating Voltages (Part. Part. Syst. Charact. 1/2013). Particle and Particle Systems Characterization, 2013, 30, 75-75.	1.2	0
156	Opening a large band gap for graphene by covalent addition. Chemical Physics Letters, 2013, 555, 1-6.	1.2	18
157	Electronic, Thermal, and Structural Properties of Graphene Oxide Frameworks. Journal of Physical Chemistry C, 2013, 117, 8276-8281.	1.5	26
158	Edge-Edge Interactions in Stacked Graphene Nanoplatelets. ACS Nano, 2013, 7, 2834-2841.	7.3	25
159	Electronic structure and transport properties of N ₂ -doped armchair and zigzag graphene nanoribbons. Nanotechnology, 2013, 24, 235701.	1.3	9
160	Self-Organized and Cu-Coordinated Surface Linear Polymerization. Scientific Reports, 2013, 3, 2102.	1.6	23
161	Insight into Organometallic Intermediate and Its Evolution to Covalent Bonding in Surface-Confined Ullmann Polymerization. ACS Nano, 2013, 7, 8190-8198.	7.3	190
162	Defect-Driven Restructuring of TiO ₂ Surface and Modified Reactivity Toward Deposited Gold Atoms. Catalysts, 2013, 3, 276-287.	1.6	5

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163	Electronic and transport properties of graphene nanoribbon barbell-shaped heterojunctions. <i>Physica Status Solidi (B): Basic Research</i> , 2013, 250, 2417-2423.	0.7	3
164	Dynamical properties of carbon nanotube welding into X junctions. <i>Physical Review B</i> , 2013, 88, .	1.1	6
165	Asymmetric electron transport and highest occupied molecular orbital assisted tunneling through Zn-porphyrin molecular junctions. <i>Applied Physics Letters</i> , 2013, 103, .	1.5	8
166	Modeling and Simulation of Electron Transport at the Nanoscale: Illustrations in Low-Dimensional Carbon Nanostructures. <i>Advances in Atom and Single Molecule Machines</i> , 2013, , 123-133.	0.0	0
167	Enhanced thermoelectric figure of merit in assembled graphene nanoribbons. <i>Physical Review B</i> , 2012, 86, .	1.1	81
168	Facet-insensitive graphene growth on copper. <i>Physical Review B</i> , 2012, 85, .	1.1	45
169	Electronic Transport Properties of Assembled Carbon Nanoribbons. <i>ACS Nano</i> , 2012, 6, 6483-6491.	7.3	29
170	Voltage Dependent Charge Storage Modes and Capacity in Subnanometer Pores. <i>Journal of Physical Chemistry Letters</i> , 2012, 3, 1732-1737.	2.1	77
171	Electrospinning. , 2012, , 769-775.		2
172	Electronic properties of two-dimensional covalent organic frameworks. <i>Journal of Chemical Physics</i> , 2012, 137, 244703.	1.2	63
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