Vincent Meunier

List of Publications by Year
in descending order

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310 papers	23,697 citations	8755 75 h-index	8630 146 g-index
317 all docs	317 docs citations	317 times ranked	27552 citing authors

#	Article	IF	Citations
1	Recent Advances in Two-Dimensional Materials beyond Graphene. ACS Nano, 2015, 9, 11509-11539.	14.6	2,069
2	Ultrathin Planar Graphene Supercapacitors. Nano Letters, 2011, 11, 1423-1427.	9.1	1,145
3	Evaluating the characteristics of multiwall carbon nanotubes. Carbon, 2011, 49, 2581-2602.	10.3	951
4	Controlled Formation of Sharp Zigzag and Armchair Edges in Graphitic Nanoribbons. Science, 2009, 323, 1701-1705.	12.6	655
5	A Universal Model for Nanoporous Carbon Supercapacitors Applicable to Diverse Pore Regimes, Carbon Materials, and Electrolytes. Chemistry - A European Journal, 2008, 14, 6614-6626.	3.3	545
6	Graphene nanoribbon heterojunctions. Nature Nanotechnology, 2014, 9, 896-900.	31.5	528
7	Theoretical Model for Nanoporous Carbon Supercapacitors. Angewandte Chemie - International Edition, 2008, 47, 520-524.	13.8	526
8	Electronic Bandgap and Edge Reconstruction in Phosphorene Materials. Nano Letters, 2014, 14, 6400-6406.	9.1	459
9	Graphene edges: a review of their fabrication and characterization. Nanoscale, 2011, 3, 86-95.	5.6	410
10	Engineering of robust topological quantum phases in graphene nanoribbons. Nature, 2018, 560, 209-213.	27.8	397
11	First-principles Raman spectra of MoS2, WS2 and their heterostructures. Nanoscale, 2014, 6, 5394.	5.6	348
12	Mechanical and Electrical Properties of Nanotubes. Annual Review of Materials Research, 2002, 32, 347-375.	9.3	343
13	Covalently bonded three-dimensional carbon nanotube solids via boron induced nanojunctions. Scientific Reports, 2012, 2, 363.	3.3	329
14	Anisotropic Electron-Photon and Electron-Phonon Interactions in Black Phosphorus. Nano Letters, 2016, 16, 2260-2267.	9.1	328
15	Raman Shifts in Electron-Irradiated Monolayer MoS₂. ACS Nano, 2016, 10, 4134-4142.	14.6	311
16	Massless fermions in multilayer graphitic systems with misoriented layers:Ab initiocalculations and experimental fingerprints. Physical Review B, 2007, 76, .	3.2	295
17	On-Surface Synthesis and Characterization of 9-Atom Wide Armchair Graphene Nanoribbons. ACS Nano, 2017, 11, 1380-1388.	14.6	270
18	Ab InitioInvestigations of Lithium Diffusion in Carbon Nanotube Systems. Physical Review Letters, 2002, 88, 075506.	7.8	254

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19	Ultrathin nanosheets of CrSiTe₃: a semiconducting two-dimensional ferromagnetic material. Journal of Materials Chemistry C, 2016, 4, 315-322.	5.5	235
20	Electronic Transport and Mechanical Properties of Phosphorus- and Phosphorusâ˜Nitrogen-Doped Carbon Nanotubes. ACS Nano, 2009, 3, 1913-1921.	14.6	228
21	Probing the Interlayer Coupling of Twisted Bilayer MoS₂ Using Photoluminescence Spectroscopy. Nano Letters, 2014, 14, 5500-5508.	9.1	228
22	Covalent 2D and 3D Networks from 1D Nanostructures:Â Designing New Materials. Nano Letters, 2007, 7, 570-576.	9.1	223
23	Spontaneous polarization and piezoelectricity in boron nitride nanotubes. Physical Review B, 2003, 67, .	3.2	211
24	Transitionâ€Metal Substitution Doping in Synthetic Atomically Thin Semiconductors. Advanced Materials, 2016, 28, 9735-9743.	21.0	208
25	Nitrogen-Mediated Carbon Nanotube Growth: Diameter Reduction, Metallicity, Bundle Dispersability, and Bamboo-like Structure Formation. ACS Nano, 2007, 1, 369-375.	14.6	207
26	Tunable water desalination across graphene oxide framework membranes. Physical Chemistry Chemical Physics, 2014, 16, 8646.	2.8	194
27	Heterodoped Nanotubes: Theory, Synthesis, and Characterization of Phosphorusâ˜Nitrogen Doped Multiwalled Carbon Nanotubes. ACS Nano, 2008, 2, 441-448.	14.6	192
28	Insight into Organometallic Intermediate and Its Evolution to Covalent Bonding in Surface-Confined Ullmann Polymerization. ACS Nano, 2013, 7, 8190-8198.	14.6	190
29	Complex Capacitance Scaling in Ionic Liquids-Filled Nanopores. ACS Nano, 2011, 5, 9044-9051.	14.6	188
30	Fullerene Coalescence in Nanopeapods:â€‰ A Path to Novel Tubular Carbon. Nano Letters, 2003, 3, 1037-1042.	9.1	185
31	Ion Distribution in Electrified Micropores and Its Role in the Anomalous Enhancement of Capacitance. ACS Nano, 2010, 4, 2382-2390.	14.6	183
32	Low-Frequency Interlayer Breathing Modes in Few-Layer Black Phosphorus. Nano Letters, 2015, 15, 4080-4088.	9.1	182
33	Low-Frequency Shear and Layer-Breathing Modes in Raman Scattering of Two-Dimensional Materials. ACS Nano, 2017, 11, 11777-11802.	14.6	179
34	Molecular Selectivity of Graphene-Enhanced Raman Scattering. Nano Letters, 2015, 15, 2892-2901.	9.1	177
35	Ultrasensitive gas detection of large-area boron-doped graphene. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 14527-14532.	7.1	177
36	Low-Frequency Interlayer Raman Modes to Probe Interface of Twisted Bilayer MoS₂. Nano Letters, 2016, 16, 1435-1444.	9.1	177

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37	The importance of ion size and electrode curvature on electrical double layers in ionic liquids. Physical Chemistry Chemical Physics, 2011, 13, 1152-1161.	2.8	173
38	Atomic structure of carbon nanotubes from scanning tunneling microscopy. Physical Review B, 2000, 61, 2991-2996.	3.2	164
39	Scanning tunneling microscopy fingerprints of point defects in graphene: A theoretical prediction. Physical Review B, 2007, 76, .	3.2	164
40	Physical properties of low-dimensional<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msup><mml:mrow><mml:mi>s</mml:mi><mml:mi>p</mml:mi></mml:mrow><mml:mn>2</mml:mn></mml:msup></mml:mrow></mml:math> carbon nanostructures. Reviews of Modern Physics, 2016, 88, .	45.6	160
41	STM study of a grain boundary in graphite. Surface Science, 2002, 511, 319-322.	1.9	158
42	Electronic flexoelectricity in low-dimensional systems. Physical Review B, 2008, 77, .	3.2	157
43	Low-Frequency Raman Fingerprints of Two-Dimensional Metal Dichalcogenide Layer Stacking Configurations. ACS Nano, 2015, 9, 6333-6342.	14.6	151
44	Curvature effects in carbon nanomaterials: Exohedral versus endohedral supercapacitors. Journal of Materials Research, 2010, 25, 1525-1531.	2.6	142
45	Localization of lattice dynamics in low-angle twisted bilayer graphene. Nature, 2021, 590, 405-409.	27.8	139
46	Enhanced Electron Field Emission in B-doped Carbon Nanotubes. Nano Letters, 2002, 2, 1191-1195.	9.1	136
47	Synthesis, Electronic Structure, and Raman Scattering of Phosphorus-Doped Single-Wall Carbon Nanotubes. Nano Letters, 2009, 9, 2267-2272.	9.1	134
48	Structural, magnetic, and transport properties of substitutionally doped graphene nanoribbons from first principles. Physical Review B, 2011, 83, .	3.2	124
49	Enhanced Raman Scattering on In-Plane Anisotropic Layered Materials. Journal of the American Chemical Society, 2015, 137, 15511-15517.	13.7	122
50	Tight-Binding Computation of the STM Image of Carbon Nanotubes. Physical Review Letters, 1998, 81, 5588-5591.	7.8	119
51	Nanoscale Ferroelectricity in Crystalline Î³â€Glycine. Advanced Functional Materials, 2012, 22, 2996-3003.	14.9	119
52	Electronic and field emission properties of boron nitride/carbon nanotube superlattices. Applied Physics Letters, 2002, 81, 46-48.	3.3	118
53	Step-by-step growth of epitaxially aligned polythiophene by surface-confined reaction. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 11200-11204.	7.1	117
54	Twisted MoSe₂ Bilayers with Variable Local Stacking and Interlayer Coupling Revealed by Low-Frequency Raman Spectroscopy. ACS Nano, 2016, 10, 2736-2744.	14.6	117

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55	Enabling room temperature ferromagnetism in monolayer MoS2 via in situ iron-doping. Nature Communications, 2020, 11, 2034.	12.8	112
56	Controlled Sculpture of Black Phosphorus Nanoribbons. ACS Nano, 2016, 10, 5687-5695.	14.6	111
57	Heterojunctions between metals and carbon nanotubes as ultimate nanocontacts. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 4591-4595.	7.1	110
58	Structure and dynamics of electrical double layers in organic electrolytes. Physical Chemistry Chemical Physics, 2010, 12, 5468.	2.8	107
59	Engineering Three-Dimensional (3D) Out-of-Plane Graphene Edge Sites for Highly Selective Two-Electron Oxygen Reduction Electrocatalysis. ACS Catalysis, 2020, 10, 1993-2008.	11.2	106
60	Nonmagnetic Quantum Emitters in Boron Nitride with Ultranarrow and Sideband-Free Emission Spectra. ACS Nano, 2017, 11, 6652-6660.	14.6	105
61	Topographic and Spectroscopic Characterization of Electronic Edge States in CVD Grown Graphene Nanoribbons. Nano Letters, 2012, 12, 1928-1933.	9.1	104
62	The role of collective motion in the ultrafast charge transfer in van der Waals heterostructures. Nature Communications, 2016, 7, 11504.	12.8	103
63	Phosphorus and phosphorusâ€“nitrogen doped carbon nanotubes for ultrasensitive and selective molecular detection. Nanoscale, 2011, 3, 1008-1013.	5.6	102
64	Quantum Dots in Graphene Nanoribbons. Nano Letters, 2017, 17, 4277-4283.	9.1	99
65	Revealing the Electronic Structure of Silicon Intercalated Armchair Graphene Nanoribbons by Scanning Tunneling Spectroscopy. Nano Letters, 2017, 17, 2197-2203.	9.1	92
66	Quasi one-dimensional band dispersion and surface metallization in long-range ordered polymeric wires. Nature Communications, 2016, 7, 10235.	12.8	91
67	A â€œcounter-charge layer in generalized solventsâ€•framework for electrical double layers in neat and hybrid ionic liquid electrolytes. Physical Chemistry Chemical Physics, 2011, 13, 14723.	2.8	90
68	Theoretical study of the vibrational edge modes in graphene nanoribbons. Physical Review B, 2008, 78, .	3.2	86
69	Novel Electromechanical Phenomena at the Nanoscale: Phenomenological Theory and Atomistic Modeling. MRS Bulletin, 2009, 34, 643-647.	3.5	84
70	Enhanced thermoelectric figure of merit in assembled graphene nanoribbons. Physical Review B, 2012, 86, .	3.2	81
71	Mechanistic Picture and Kinetic Analysis of Surface-Confined Ullmann Polymerization. Journal of the American Chemical Society, 2016, 138, 16696-16702.	13.7	81
72	Quantum-Confined Stark Effect of Individual Defects in a van der Waals Heterostructure. Nano Letters, 2017, 17, 2253-2258.	9.1	81

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73	A carbon science perspective in 2018: Current achievements and future challenges. Carbon, 2018, 132, 785-801.	10.3	80
74	On-Surface Synthesis of BN-Substituted Heteroaromatic Networks. ACS Nano, 2015, 9, 9228-9235.	14.6	78
75	Atomic and electronic structures of large and small carbon tori. Physical Review B, 1998, 57, 14886-14890.	3.2	77
76	Voltage Dependent Charge Storage Modes and Capacity in Subnanometer Pores. Journal of Physical Chemistry Letters, 2012, 3, 1732-1737.	4.6	77
77	Carbon science perspective in 2020: Current research and future challenges. Carbon, 2020, 161, 373-391.	10.3	77
78	An Atomistic Branching Mechanism for Carbon Nanotubes: Sulfur as the Triggering Agent. Angewandte Chemie - International Edition, 2008, 47, 2948-2953.	13.8	76
79	DNA Translocation in Nanometer Thick Silicon Nanopores. ACS Nano, 2015, 9, 6555-6564.	14.6	76
80	Surface-Synthesized Graphene Nanoribbons for Room Temperature Switching Devices: Substrate Transfer and ex Situ Characterization. ACS Applied Nano Materials, 2019, 2, 2184-2192.	5.0	75
81	Intrinsic electron transport properties of carbon nanotube Y-junctions. Applied Physics Letters, 2002, 81, 5234-5236.	3.3	74
82	Electronic structure of polychiral carbon nanotubes. Physical Review B, 2000, 62, 5129-5135.	3.2	73
83	Vanadium disulfide flakes with nanolayered titanium disulfide coating as cathode materials in lithium-ion batteries. Nature Communications, 2019, 10, 1764.	12.8	73
84	Quantum Transport in Graphene Nanonetworks. Nano Letters, 2011, 11, 3058-3064.	9.1	71
85	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.	2.0	70
86	Emergence of Atypical Properties in Assembled Graphene Nanoribbons. Physical Review Letters, 2011, 107, 135501.	7.8	69
87	Mesoscopic Metalâ^'Insulator Transition at Ferroelastic Domain Walls in VO₂. ACS Nano, 2010, 4, 4412-4419.	14.6	68
88	Nonlinear Photon-Assisted Tunneling Transport in Optical Gap Antennas. Nano Letters, 2014, 14, 2330-2338.	9.1	68
89	On-Surface Cyclization of ortho-Dihalotetracenes to Four- and Six-Membered Rings. Journal of the American Chemical Society, 2017, 139, 17617-17623.	13.7	68
90	Reoxidation ofTiO2(110)via Ti interstitials and line defects. Physical Review B, 2007, 75, .	3.2	67

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91	Nonequilibrium Quantum Transport Properties of Organic Molecules on Silicon. Physical Review Letters, 2005, 95, 206805.	7.8	65
92	Structure and Stability of Small Boron and Boron Oxide Clusters. Journal of Physical Chemistry A, 2007, 111, 6539-6551.	2.5	65
93	How to Identify Haeckelite Structures: A Theoretical Study of Their Electronic and Vibrational Properties. Nano Letters, 2004, 4, 805-810.	9.1	64
94	Seamless Staircase Electrical Contact to Semiconducting Graphene Nanoribbons. Nano Letters, 2017, 17, 6241-6247.	9.1	64
95	Guiding Electrical Current in Nanotube Circuits Using Structural Defects: A Step Forward in Nanoelectronics. ACS Nano, 2008, 2, 2585-2591.	14.6	63
96	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.	7.8	63
97	Electronic properties of two-dimensional covalent organic frameworks. Journal of Chemical Physics, 2012, 137, 244703.	3.0	63
98	Energetics of bent carbon nanotubes. Physical Review B, 1998, 57, 2586-2591.	3.2	62
99	Amphoteric doping of carbon nanotubes by encapsulation of organic molecules: Electronic properties and quantum conductance. Journal of Chemical Physics, 2005, 123, 024705.	3.0	62
100	Scanning tunneling spectroscopy signature of finite-size and connected nanotubes: A tight-binding study. Physical Review B, 1999, 60, 7792-7795.	3.2	61
101	Heteroatom-Doped Perihexacene from a Double Helicene Precursor: On-Surface Synthesis and Properties. Journal of the American Chemical Society, 2017, 139, 4671-4674.	13.7	61
102	Spin Polarized Conductance in Hybrid Graphene Nanoribbons Using 5â^'7 Defects. ACS Nano, 2009, 3, 3606-3612.	14.6	60
103	Controlling Edge Morphology in Graphene Layers Using Electron Irradiation: From Sharp Atomic Edges to Coalesced Layers Forming Loops. Physical Review Letters, 2010, 105, 045501.	7.8	56
104	Charge transport through small silicon clusters. Physical Review B, 2002, 66, .	3.2	55
105	Clean Nanotube Unzipping by Abrupt Thermal Expansion of Molecular Nitrogen: Graphene Nanoribbons with Atomically Smooth Edges. ACS Nano, 2012, 6, 2261-2272.	14.6	54
106	Surface Reconstructions ofTiO2(110)Driven by Suboxides. Physical Review Letters, 2006, 96, 226105.	7.8	53
107	Effect of diffuse layer and pore shapes in mesoporous carbon supercapacitors. Journal of Materials Research, 2010, 25, 1469-1475.	2.6	53
108	Atomistic Insight on the Charging Energetics in Subnanometer Pore Supercapacitors. Journal of Physical Chemistry C, 2010, 114, 18012-18016.	3.1	53

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109	Negative Differential Resistance in C₆₀-Based Electronic Devices. ACS Nano, 2010, 4, 7205-7210.	14.6	52
110	Improved All-Carbon Spintronic Device Design. Scientific Reports, 2015, 5, 7634.	3.3	52
111	An Environmentally Stable and Leadâ€Free Chalcogenide Perovskite. Advanced Functional Materials, 2020, 30, 2001387.	14.9	52
112	Enhancement of the transverse conductance in DNA nucleotides. Journal of Chemical Physics, 2008, 128, 041103.	3.0	51
113	The Role of Sulfur in the Synthesis of Novel Carbon Morphologies: From Covalent Yâ€Junctions to Seaâ€Urchinâ€Like Structures. Advanced Functional Materials, 2009, 19, 1193-1199.	14.9	51
114	Millimeter-Long Carbon Nanotubes: Outstanding Electron-Emitting Sources. ACS Nano, 2011, 5, 5072-5077.	14.6	50
115	Carbon Kagome Lattice and Orbital-Frustration-Induced Metal-Insulator Transition for Optoelectronics. Physical Review Letters, 2014, 113, 085501.	7.8	49
116	Scanning tunneling microscopy and spectroscopy of topological defects in carbon nanotubes. Carbon, 2000, 38, 1729-1733.	10.3	47
117	Width and Crystal Orientation Dependent Band Gap Renormalization in Substrate-Supported Graphene Nanoribbons. Journal of Physical Chemistry Letters, 2016, 7, 1526-1533.	4.6	47
118	Nanowire-Mesh-Templated Growth of Out-of-Plane Three-Dimensional Fuzzy Graphene. ACS Nano, 2017, 11, 6301-6311.	14.6	46
119	Structural and electronic properties of carbon nanotube tapers. Physical Review B, 2001, 64, .	3.2	45
120	Facet-insensitive graphene growth on copper. Physical Review B, 2012, 85, .	3.2	45
121	Sculpting Artificial Edges in Monolayer MoS₂ for Controlled Formation of Surface-Enhanced Raman Hotspots. ACS Nano, 2020, 14, 6258-6268.	14.6	45
122	Oxygen-Induced Surface Reconstruction of SrRuO₃ and Its Effect on the BaTiO₃ Interface. ACS Nano, 2010, 4, 4190-4196.	14.6	44
123	Electronic Transport of Recrystallized Freestanding Graphene Nanoribbons. ACS Nano, 2015, 9, 3510-3520.	14.6	44
124	Massive Dirac Fermion Behavior in a Low Bandgap Graphene Nanoribbon Near a Topological Phase Boundary. Advanced Materials, 2020, 32, e1906054.	21.0	44
125	Selective Tuning of the Electronic Properties of Coaxial Nanocables through Exohedral Doping. Nano Letters, 2007, 7, 2383-2388.	9.1	43
126	Properties of One-Dimensional Molybdenum Nanowires in a Confined Environment. Nano Letters, 2009, 9, 1487-1492.	9.1	43

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127	Electronic structure of assembled graphene nanoribbons: Substrate and many-body effects. Physical Review B, 2012, 86, .	3.2	43
128	Periodic Arrays of Phosphorene Nanopores as Antidot Lattices with Tunable Properties. ACS Nano, 2017, 11, 7494-7507.	14.6	42
129	Isotope-Engineering the Thermal Conductivity of Two-Dimensional MoS₂. ACS Nano, 2019, 13, 2481-2489.	14.6	42
130	Highly Selective, Defect-Induced Photocatalytic CO₂ Reduction to Acetaldehyde by the Nb-Doped TiO₂ Nanotube Array under Simulated Solar Illumination. ACS Applied Materials & Interfaces, 2020, 12, 55982-55993.	8.0	39
131	Measuring the helicity of carbon nanotubes. Carbon, 2000, 38, 1713-1721.	10.3	38
132	Bright Photoluminescence from the Inner Tubes of â€œPeapodâ€â€Derived Doubleâ€Walled Carbon Nanotubes. Small, 2009, 5, 2678-2682.	10.0	38
133	Interlayer bond polarizability model for stacking-dependent low-frequency Raman scattering in layered materials. Nanoscale, 2017, 9, 15340-15355.	5.6	38
134	Onâ€Surface Synthesis and Characterization of Aceneâ€Based Nanoribbons Incorporating Fourâ€Membered Rings. Chemistry - A European Journal, 2019, 25, 12074-12082.	3.3	38
135	A Universal Length-Dependent Vibrational Mode in Graphene Nanoribbons. ACS Nano, 2019, 13, 13083-13091.	14.6	36
136	Molecular Dynamics Simulations of Graphene Oxide Frameworks. Journal of Chemical Theory and Computation, 2013, 9, 4890-4900.	5.3	35
137	Electronic, structural, and magnetic properties of<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi>LaMnO</mml:mi><mml:mn>3</mml:mn></mml:msub> transition at high temperature. Physical Review B, 2016, 93, .	3.2	35
138	Theoretical and Experimental Insight into the Mechanism for Spontaneous Vertical Growth of ReS 2 Nanosheets. Advanced Functional Materials, 2018, 28, 1801286.	14.9	35
139	Atomically Precise Graphene Nanoribbon Heterojunctions for Excitonic Solar Cells. Journal of Physical Chemistry C, 2015, 119, 775-783.	3.1	34
140	First-principles simulation of local response in transition metal dichalcogenides under electron irradiation. Nanoscale, 2018, 10, 2388-2397.	5.6	34
141	Phonon Anharmonicity in Few-Layer Black Phosphorus. ACS Nano, 2019, 13, 10456-10468.	14.6	34
142	Soliton signature in the phonon spectrum of twisted bilayer graphene. 2D Materials, 2020, 7, 025050.	4.4	34
143	Single electron tunneling of nanoscale TiSi2 islands on Si. Journal of Applied Physics, 2002, 92, 3332-3337.	2.5	32
144	Electronic and thermoelectric properties of assembled graphene nanoribbons with elastic strain and structural dislocation. Applied Physics Letters, 2013, 102, .	3.3	31

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145	Nitrogenâ€Doped Graphitic Nanoribbons: Synthesis, Characterization, and Transport. Advanced Functional Materials, 2013, 23, 3755-3762.	14.9	31
146	Electronic Transport Properties of Assembled Carbon Nanoribbons. ACS Nano, 2012, 6, 6483-6491.	14.6	29
147	Can computational approaches aid in untangling the inherent complexity of practical organic photovoltaic systems?. Journal of Polymer Science, Part B: Polymer Physics, 2012, 50, 1071-1089.	2.1	29
148	An unexpected organometallic intermediate in surface-confined Ullmann coupling. Nanoscale, 2019, 11, 7682-7689.	5.6	29
149	Charged defects in two-dimensional semiconductors of arbitrary thickness and geometry: Formulation and application to few-layer black phosphorus. Physical Review B, 2017, 96, .	3.2	28
150	Anomalous vibrational modes in few layer WTe ₂ revealed by polarized Raman scattering and first-principles calculations. 2D Materials, 2017, 4, 035024.	4.4	27
151	Electronic, Thermal, and Structural Properties of Graphene Oxide Frameworks. Journal of Physical Chemistry C, 2013, 117, 8276-8281.	3.1	26
152	Elastic, plastic, and fracture mechanisms in graphene materials. Journal of Physics Condensed Matter, 2015, 27, 373002.	1.8	26
153	Optimized Substrates and Measurement Approaches for Raman Spectroscopy of Graphene Nanoribbons. Physica Status Solidi (B): Basic Research, 2019, 256, 1900343.	1.5	26
154	Electron transport properties of ordered networks using carbon nanotubes. Nanotechnology, 2008, 19, 315704.	2.6	25
155	Edgeâ€“Edge Interactions in Stacked Graphene Nanoplatelets. ACS Nano, 2013, 7, 2834-2841.	14.6	25
156	Electronic localization in small-angle twisted bilayer graphene. 2D Materials, 2021, 8, 035046.	4.4	25
157	Charged iodide in chains behind the highly efficient iodine doping in carbon nanotubes. Physical Review Materials, 2017, 1, .	2.4	25
158	Nonvolatile Memory Elements Based on the Intercalation of Organic Molecules Inside Carbon Nanotubes. Physical Review Letters, 2007, 98, 056401.	7.8	24
159	Structural and electronic properties of graphitic nanowiggles. Physical Review B, 2012, 85, .	3.2	24
160	Machine-learning models for Raman spectra analysis of twisted bilayer graphene. Carbon, 2020, 169, 455-464.	10.3	24
161	First-principles methodology for quantum transport in multiterminal junctions. Journal of Chemical Physics, 2009, 131, 164105.	3.0	23
162	Structure and charging kinetics of electrical double layers at large electrode voltages. Microfluidics and Nanofluidics, 2010, 8, 703-708.	2.2	23

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163	Self-Organized and Cu-Coordinated Surface Linear Polymerization. Scientific Reports, 2013, 3, 2102.	3.3	23
164	Catalytic Dealkylation of Ethers to Alcohols on Metal Surfaces. Angewandte Chemie - International Edition, 2016, 55, 9881-9885.	13.8	23
165	Naphthylenes: 1D and 2D carbon allotropes based on naphthyl units. Carbon, 2019, 153, 792-803.	10.3	23
166	Quantitative Analysis of Electronic Properties of Carbon Nanotubes by Scanning Probe Microscopy: From Atomic to Mesoscopic Length Scales. Physical Review Letters, 2004, 93, 246801.	7.8	22
167	Graphene ripples as a realization of a two-dimensional Ising model: A scanning tunneling microscope study. Physical Review B, 2015, 91, .	3.2	22
168	Quantum confinement in black phosphorus-based nanostructures. Journal of Physics Condensed Matter, 2017, 29, 283001.	1.8	22
169	New Insight into Carbonâ€Nanotube Electronicâ€Structure Selectivity. Small, 2008, 4, 2035-2042.	10.0	21
170	Electronic, vibrational, Raman, and scanning tunneling microscopy signatures of two-dimensional boron nanomaterials. Physical Review B, 2016, 94, .	3.2	21
171	Direct Observation of Symmetry-Dependent Electronâ€“Phonon Coupling in Black Phosphorus. Journal of the American Chemical Society, 2019, 141, 18994-19001.	13.7	21
172	Magnetic Proximity Coupling of Quantum Emitters in WSe₂ to van der Waals Ferromagnets. Nano Letters, 2019, 19, 7301-7308.	9.1	21
173	Reversible Pressure-Induced Partial Phase Transition in Few-Layer Black Phosphorus. Nano Letters, 2020, 20, 5929-5935.	9.1	21
174	Atomic-layered MoS2 on SiO2 under high pressure: Bimodal adhesion and biaxial strain effects. Physical Review Materials, 2017, 1, .	2.4	21
175	Structural properties of junctions between two carbon nanotubes. Applied Physics A: Materials Science and Processing, 1999, 68, 263-266.	2.3	20
176	Adsorption, desorption, and dissociation of benzene onTiO2(110)andPdâ•TiO2(110): Experimental characterization and first-principles calculations. Physical Review B, 2006, 74, .	3.2	20
177	Excitation to defect-bound band edge states in two-dimensional semiconductors and its effect on carrier transport. Npj Computational Materials, 2019, 5, .	8.7	20
178	Substitutional transition metal doping in MoS₂: a first-principles study. Nano Express, 2020, 1, 010008.	2.4	20
179	Geometric and Electronic Structure of Closed Graphene Edges. Journal of Physical Chemistry Letters, 2012, 3, 2097-2102.	4.6	19
180	Reply to â€œComment on â€˜Insight into Organometallic Intermediate and Its Evolution to Covalent Bonding in Surface-Confined Ullmann Polymerizationâ€™â€•. ACS Nano, 2014, 8, 1969-1971.	14.6	19

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