

Alex K Zettl

List of Publications by Year in descending order

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507
papers

67,472
citations

993

114
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764

249
g-index

516
all docs

516
docs citations

516
times ranked

52375
citing authors

#	ARTICLE	IF	CITATIONS
1	Direct observation of a widely tunable bandgap in bilayer graphene. <i>Nature</i> , 2009, 459, 820-823.	13.7	3,148
2	Extreme Oxygen Sensitivity of Electronic Properties of Carbon Nanotubes. <i>Science</i> , 2000, 287, 1801-1804.	6.0	2,777
3	Graphene plasmonics for tunable terahertz metamaterials. <i>Nature Nanotechnology</i> , 2011, 6, 630-634.	15.6	2,566
4	High-performance transition metal-doped Pt ₃ Ni octahedra for oxygen reduction reaction. <i>Science</i> , 2015, 348, 1230-1234.	6.0	1,623
5	Gate-Variable Optical Transitions in Graphene. <i>Science</i> , 2008, 320, 206-209.	6.0	1,433
6	Strain-Induced Pseudo-Magnetic Fields Greater Than 300 Tesla in Graphene Nanobubbles. <i>Science</i> , 2010, 329, 544-547.	6.0	1,367
7	Single-Electron Transport in Ropes of Carbon Nanotubes. <i>Science</i> , 1997, 275, 1922-1925.	6.0	1,278
8	Low-Friction Nanoscale Linear Bearing Realized from Multiwall Carbon Nanotubes. <i>Science</i> , 2000, 289, 602-604.	6.0	1,206
9	Graphene at the Edge: Stability and Dynamics. <i>Science</i> , 2009, 323, 1705-1708.	6.0	1,153
10	Crossed Nanotube Junctions. <i>Science</i> , 2000, 288, 494-497.	6.0	1,135
11	Rotational actuators based on carbon nanotubes. <i>Nature</i> , 2003, 424, 408-410.	13.7	1,098
12	Direct Imaging of Lattice Atoms and Topological Defects in Graphene Membranes. <i>Nano Letters</i> , 2008, 8, 3582-3586.	4.5	1,090
13	Determination of the Local Chemical Structure of Graphene Oxide and Reduced Graphene Oxide. <i>Advanced Materials</i> , 2010, 22, 4467-4472.	11.1	1,044
14	Solid-State Thermal Rectifier. <i>Science</i> , 2006, 314, 1121-1124.	6.0	1,043
15	High-Resolution EM of Colloidal Nanocrystal Growth Using Graphene Liquid Cells. <i>Science</i> , 2012, 336, 61-64.	6.0	989
16	Tunable Phonon Polaritons in Atomically Thin van der Waals Crystals of Boron Nitride. <i>Science</i> , 2014, 343, 1125-1129.	6.0	957
17	Direct mechanical measurement of the tensile strength and elastic modulus of multiwalled carbon nanotubes. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2002, 334, 173-178.	2.6	951
18	An atomic-resolution nanomechanical mass sensor. <i>Nature Nanotechnology</i> , 2008, 3, 533-537.	15.6	944

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19	The two-dimensional phase of boron nitride: Few-atomic-layer sheets and suspended membranes. Applied Physics Letters, 2008, 92, .	1.5	895
20	Nanotube Nanodevice. Science, 1997, 278, 100-102.	6.0	869
21	Observation of moiré excitons in WSe ₂ /WS ₂ heterostructure superlattices. Nature, 2019, 567, 76-80.	13.7	791
22	Origin of spatial charge inhomogeneity in graphene. Nature Physics, 2009, 5, 722-726.	6.5	630
23	Spatially resolving edge states of chiral graphene nanoribbons. Nature Physics, 2011, 7, 616-620.	6.5	628
24	Graphene as a Long-Term Metal Oxidation Barrier: Worse Than Nothing. ACS Nano, 2013, 7, 5763-5768.	7.3	600
25	Ultralow contact resistance between semimetal and monolayer semiconductors. Nature, 2021, 593, 211-217.	13.7	579
26	Grain Boundary Mapping in Polycrystalline Graphene. ACS Nano, 2011, 5, 2142-2146.	7.3	566
27	Local Electronic Properties of Graphene on a BN Substrate via Scanning Tunneling Microscopy. Nano Letters, 2011, 11, 2291-2295.	4.5	539
28	Characterization of collective ground states in single-layer NbSe ₂ . Nature Physics, 2016, 12, 92-97.	6.5	536
29	Mott and generalized Wigner crystal states in WSe ₂ /WS ₂ moiré superlattices. Nature, 2020, 579, 359-363.	13.7	536
30	Evolution of interlayer coupling in twisted molybdenum disulfide bilayers. Nature Communications, 2014, 5, 4966.	5.8	533
31	On the roughness of single- and bi-layer graphene membranes. Solid State Communications, 2007, 143, 101-109.	0.9	530
32	Boron Nitride Nanotubes Are Noncytotoxic and Can Be Functionalized for Interaction with Proteins and Cells. Journal of the American Chemical Society, 2009, 131, 890-891.	6.6	522
33	Topological valley transport at bilayer graphene domain walls. Nature, 2015, 520, 650-655.	13.7	502
34	Controlling inelastic light scattering quantum pathways in graphene. Nature, 2011, 471, 617-620.	13.7	492
35	Raman Spectroscopy Study of Rotated Double-Layer Graphene: Misorientation-Angle Dependence of Electronic Structure. Physical Review Letters, 2012, 108, 246103.	2.9	486
36	Imaging and dynamics of light atoms and molecules on graphene. Nature, 2008, 454, 319-322.	13.7	475

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37	Fully collapsed carbon nanotubes. <i>Nature</i> , 1995, 377, 135-138.	13.7	466
38	Atomically thin hexagonal boron nitride probed by ultrahigh-resolution transmission electron microscopy. <i>Physical Review B</i> , 2009, 80, .	1.1	456
39	Drude conductivity of Dirac fermions in graphene. <i>Physical Review B</i> , 2011, 83, .	1.1	447
40	Breakdown of Fourier's Law in Nanotube Thermal Conductors. <i>Physical Review Letters</i> , 2008, 101, 075903.	2.9	425
41	Synthesis of B _x C _y N _z nanotubes. <i>Physical Review B</i> , 1995, 51, 11229-11232.	1.1	413
42	Giant phonon-induced conductance in scanning tunnelling spectroscopy of gate-tunable graphene. <i>Nature Physics</i> , 2008, 4, 627-630.	6.5	404
43	Charge density wave conduction: A novel collective transport phenomenon in solids. <i>Physics Reports</i> , 1985, 119, 117-232.	10.3	393
44	A cell nanoinjector based on carbon nanotubes. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007, 104, 8218-8222.	3.3	366
45	Nanotube Radio. <i>Nano Letters</i> , 2007, 7, 3508-3511.	4.5	366
46	High Surface Area MoS ₂ /Graphene Hybrid Aerogel for Ultrasensitive NO ₂ Detection. <i>Advanced Functional Materials</i> , 2016, 26, 5158-5165.	7.8	357
47	Isotope Effect on the Thermal Conductivity of Boron Nitride Nanotubes. <i>Physical Review Letters</i> , 2006, 97, 085901.	2.9	349
48	Fermi velocity engineering in graphene by substrate modification. <i>Scientific Reports</i> , 2012, 2, .	1.6	344
49	Boron nitride substrates for high mobility chemical vapor deposited graphene. <i>Applied Physics Letters</i> , 2011, 98, .	1.5	339
50	A direct transfer of layer-area graphene. <i>Applied Physics Letters</i> , 2010, 96, .	1.5	335
51	Coating Single-Walled Carbon Nanotubes with Tin Oxide. <i>Nano Letters</i> , 2003, 3, 681-683.	4.5	325
52	Ultrahigh Frequency Nanotube Resonators. <i>Physical Review Letters</i> , 2006, 97, 087203.	2.9	298
53	Search for Isotope Effect in Superconducting Y-Ba-Cu-O. <i>Physical Review Letters</i> , 1987, 58, 2337-2339.	2.9	293
54	Packing C60 in Boron Nitride Nanotubes. <i>Science</i> , 2003, 300, 467-469.	6.0	292

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55	Carbon nanotubes as nanoscale mass conveyors. <i>Nature</i> , 2004, 428, 924-927.	13.7	291
56	Interfacing Carbon Nanotubes with Living Cells. <i>Journal of the American Chemical Society</i> , 2006, 128, 6292-6293.	6.6	290
57	Photoinduced doping in heterostructures of graphene and boron nitride. <i>Nature Nanotechnology</i> , 2014, 9, 348-352.	15.6	287
58	Multiply folded graphene. <i>Physical Review B</i> , 2011, 83, .	1.1	269
59	Electrical Control of Optical Plasmon Resonance with Graphene. <i>Nano Letters</i> , 2012, 12, 5598-5602.	4.5	266
60	Hydrocarbon lithography on graphene membranes. <i>Applied Physics Letters</i> , 2008, 92, .	1.5	252
61	Measurement of the intrinsic strength of crystalline and polycrystalline graphene. <i>Nature Communications</i> , 2013, 4, .	5.8	246
62	3D structure of individual nanocrystals in solution by electron microscopy. <i>Science</i> , 2015, 349, 290-295.	6.0	238
63	Gate-controlled ionization and screening of cobalt adatoms on a graphene surface. <i>Nature Physics</i> , 2011, 7, 43-47.	6.5	233
64	Interlayer Forces and Ultralow Sliding Friction in Multiwalled Carbon Nanotubes. <i>Physical Review Letters</i> , 2006, 97, 025501.	2.9	231
65	Electronic and plasmonic phenomena at graphene grain boundaries. <i>Nature Nanotechnology</i> , 2013, 8, 821-825.	15.6	226
66	Atomic Resolution Imaging of Grain Boundary Defects in Monolayer Chemical Vapor Deposition-Grown Hexagonal Boron Nitride. <i>Journal of the American Chemical Society</i> , 2013, 135, 6758-6761.	6.6	225
67	Observing Atomic Collapse Resonances in Artificial Nuclei on Graphene. <i>Science</i> , 2013, 340, 734-737.	6.0	223
68	Is the Intrinsic Thermoelectric Power of Carbon Nanotubes Positive?. <i>Physical Review Letters</i> , 2000, 85, 4361-4364.	2.9	222
69	Identifying carbon as the source of visible single-photon emission from hexagonal boron nitride. <i>Nature Materials</i> , 2021, 20, 321-328.	13.3	210
70	Single-particle mapping of nonequilibrium nanocrystal transformations. <i>Science</i> , 2016, 354, 874-877.	6.0	204
71	Ripping Graphene: Preferred Directions. <i>Nano Letters</i> , 2012, 12, 293-297.	4.5	200
72	Raman Spectroscopy and Time-Resolved Photoluminescence of BN and BxCyNzNanotubes. <i>Nano Letters</i> , 2004, 4, 647-650.	4.5	194

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73	Near-Edge X-Ray Absorption Fine-Structure Investigation of Graphene. <i>Physical Review Letters</i> , 2008, 101, 066806.	2.9	194
74	Enhanced Solid-State Order and Field-Effect Hole Mobility through Control of Nanoscale Polymer Aggregation. <i>Journal of the American Chemical Society</i> , 2013, 135, 19229-19236.	6.6	194
75	Characterization and manipulation of individual defects in insulating hexagonal boron nitride using scanning tunnelling microscopy. <i>Nature Nanotechnology</i> , 2015, 10, 949-953.	15.6	192
76	An atlas of carbon nanotube optical transitions. <i>Nature Nanotechnology</i> , 2012, 7, 325-329.	15.6	186
77	3D Motion of DNA-Au Nanoconjugates in Graphene Liquid Cell Electron Microscopy. <i>Nano Letters</i> , 2013, 13, 4556-4561.	4.5	184
78	Giant out-of-plane magnetoresistance in Bi-Sr-Ca-Cu-O: A new dissipation mechanism in copper-oxide superconductors?. <i>Physical Review Letters</i> , 1991, 66, 2164-2167.	2.9	179
79	Transformation of BxCyNz nanotubes to pure BN nanotubes. <i>Applied Physics Letters</i> , 2002, 81, 1110-1112.	1.5	179
80	Self-Assembly of Gold Nanoparticles at the Surface of Amine- and Thiol-Functionalized Boron Nitride Nanotubes. <i>Journal of Physical Chemistry C</i> , 2007, 111, 12992-12999.	1.5	179
81	Imaging electrostatically confined Dirac fermions in graphene quantum dots. <i>Nature Physics</i> , 2016, 12, 1032-1036.	6.5	176
82	Interlayer electron-phonon coupling in WSe ₂ /hBN heterostructures. <i>Nature Physics</i> , 2017, 13, 127-131.	6.5	173
83	Direct Growth of Single- and Few-Layer MoS ₂ on h-BN with Preferred Relative Rotation Angles. <i>Nano Letters</i> , 2015, 15, 6324-6331.	4.5	172
84	Observation of an oxygen isotope shift in the superconducting transition temperature of La _{1.85} Sr _{0.15} CuO ₄ . <i>Physical Review Letters</i> , 1987, 59, 915-918.	2.9	171
85	Biocompatible Carbon Nanotubes Generated by Functionalization with Glycodendrimers. <i>Angewandte Chemie - International Edition</i> , 2008, 47, 5022-5025.	7.2	165
86	Peeling and sharpening multiwall nanotubes. <i>Nature</i> , 2000, 406, 586-586.	13.7	164
87	Biomimetic Nanowire Coatings for Next Generation Adhesive Drug Delivery Systems. <i>Nano Letters</i> , 2009, 9, 716-720.	4.5	164
88	Graphene decoration with metal nanoparticles: Towards easy integration for sensing applications. <i>Nanoscale</i> , 2012, 4, 438-440.	2.8	164
89	Observation of the Giant Stark Effect in Boron-Nitride Nanotubes. <i>Physical Review Letters</i> , 2005, 94, 056804.	2.9	163
90	Synthesis and Characterization of Highly Crystalline Graphene Aerogels. <i>ACS Nano</i> , 2014, 8, 11013-11022.	7.3	162

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91	Imaging of pure spin-valley diffusion current in WS ₂ -WSe ₂ heterostructures. <i>Science</i> , 2018, 360, 893-896.	6.0	155
92	A Facile and Patternable Method for the Surface Modification of Carbon Nanotube Forests Using Perfluoroarylazides. <i>Journal of the American Chemical Society</i> , 2008, 130, 4238-4239.	6.6	154
93	Surface Tension Mediated Conversion of Light to Work. <i>Journal of the American Chemical Society</i> , 2009, 131, 5396-5398.	6.6	152
94	Graphene Nanoribbons Obtained by Electrically Unwrapping Carbon Nanotubes. <i>ACS Nano</i> , 2010, 4, 1362-1366.	7.3	151
95	Shrinking a Carbon Nanotube. <i>Nano Letters</i> , 2006, 6, 2718-2722.	4.5	149
96	Experimentally Engineering the Edge Termination of Graphene Nanoribbons. <i>ACS Nano</i> , 2013, 7, 198-202.	7.3	147
97	Imaging two-dimensional generalized Wigner crystals. <i>Nature</i> , 2021, 597, 650-654.	13.7	147
98	A tunable phonon-exciton Fano system in bilayer graphene. <i>Nature Nanotechnology</i> , 2010, 5, 32-36.	15.6	146
99	Precision cutting of nanotubes with a low-energy electron beam. <i>Applied Physics Letters</i> , 2005, 86, 053109.	1.5	143
100	Amine-functionalized boron nitride nanotubes. <i>Solid State Communications</i> , 2007, 142, 643-646.	0.9	139
101	Observation of Excitons in One-Dimensional Metallic Single-Walled Carbon Nanotubes. <i>Physical Review Letters</i> , 2007, 99, 227401.	2.9	138
102	Phase coherence in the current-carrying charge-density-wave state: ac-dc coupling experiments in NbSe ₃ . <i>Physical Review B</i> , 1984, 29, 755-767.	1.1	137
103	Controlling Graphene Ultrafast Hot Carrier Response from Metal-like to Semiconductor-like by Electrostatic Gating. <i>Nano Letters</i> , 2014, 14, 1578-1582.	4.5	136
104	Graphene electrostatic microphone and ultrasonic radio. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 8942-8946.	3.3	136
105	Electron Holography of Field-Emitting Carbon Nanotubes. <i>Physical Review Letters</i> , 2002, 88, 056804.	2.9	135
106	Graded bandgap perovskite solar cells. <i>Nature Materials</i> , 2017, 16, 522-525.	13.3	135
107	Onset of charge-density-wave conduction: Switching and hysteresis in NbSe ₃ . <i>Physical Review B</i> , 1982, 26, 2298-2301.	1.1	127
108	Subnanometer Vacancy Defects Introduced on Graphene by Oxygen Gas. <i>Journal of the American Chemical Society</i> , 2014, 136, 2232-2235.	6.6	125

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109	Scaled Synthesis of Boron Nitride Nanotubes, Nanoribbons, and Nanococoons Using Direct Feedstock Injection into an Extended-Pressure, Inductively-Coupled Thermal Plasma. Nano Letters, 2014, 14, 4881-4886.	4.5	125
110	Longitudinal Splitting of Boron Nitride Nanotubes for the Facile Synthesis of High Quality Boron Nitride Nanoribbons. Nano Letters, 2011, 11, 3221-3226.	4.5	122
111	The Use of Graphene and Its Derivatives for Liquid-Phase Transmission Electron Microscopy of Radiation-Sensitive Specimens. Nano Letters, 2017, 17, 414-420.	4.5	120
112	The physics of boron nitride nanotubes. Physics Today, 2010, 63, 34-38.	0.3	119
113	Probing Local Strain at MX ₂ Metal Boundaries with Surface Plasmon-Enhanced Raman Scattering. Nano Letters, 2014, 14, 5329-5334.	4.5	118
114	Imaging moiré flat bands in three-dimensional reconstructed WSe ₂ /WS ₂ superlattices. Nature Materials, 2021, 20, 945-950.	13.3	118
115	Thermal conductivity of B ¹⁵ N and BN nanotubes. Applied Physics Letters, 2005, 86, 173102.	1.5	117
116	Controlled growth of a line defect in graphene and implications for gate-tunable valley filtering. Physical Review B, 2014, 89, .	1.1	117
117	Reversible disorder-order transitions in atomic crystal nucleation. Science, 2021, 371, 498-503.	6.0	117
118	Metallization of the resistivity tensor in Bi ₂ Sr ₂ CaCu ₂ O _x through epitaxial intercalation. Physical Review Letters, 1992, 68, 530-533.	2.9	115
119	Charge-Density-Wave Transport in TaS ₃ . Physical Review Letters, 1981, 47, 64-67.	2.9	114
120	Local spectroscopy of moiré-induced electronic structure in gate-tunable twisted bilayer graphene. Physical Review B, 2015, 92, .	1.1	114
121	Mapping Dirac quasiparticles near a single Coulomb impurity on graphene. Nature Physics, 2012, 8, 653-657.	6.5	111
122	Atomically perfect torn graphene edges and their reversible reconstruction. Nature Communications, 2013, 4, 2723.	5.8	110
123	Electrostatic graphene loudspeaker. Applied Physics Letters, 2013, 102, .	1.5	109
124	Optimizing Broadband Terahertz Modulation with Hybrid Graphene/Metasurface Structures. Nano Letters, 2015, 15, 372-377.	4.5	109
125	Scanning tunneling microscopy of the charge-density-wave structure in 1T-TaS ₂ . Physical Review B, 1994, 49, 16899-16916.	1.1	108
126	Biomimetic Engineering of Carbon Nanotubes by Using Cell Surface Mucin Mimics. Angewandte Chemie - International Edition, 2004, 43, 6111-6116.	7.2	107

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127	Observation of Carrier-Density-Dependent Many-Body Effects in Graphene via Tunneling Spectroscopy. Physical Review Letters, 2010, 104, 036805.	2.9	106
128	Thermal-conductivity anisotropy of single-crystal Bi ₂ Sr ₂ CaCu ₂ O ₈ . Physical Review B, 1991, 43, 408-412.	1.1	105
129	Field emission and current-voltage properties of boron nitride nanotubes. Solid State Communications, 2004, 129, 661-664.	0.9	104
130	Pyrolysis approach to the synthesis of gallium nitride nanorods. Applied Physics Letters, 2002, 80, 303-305.	1.5	103
131	Transfer-Free Batch Fabrication of Large-Area Suspended Graphene Membranes. ACS Nano, 2010, 4, 4762-4768.	7.3	103
132	Fast response integrated MEMS microheaters for ultra low power gas detection. Sensors and Actuators A: Physical, 2015, 223, 67-75.	2.0	103
133	Experimental electronic structure of Bi ₂ CaSr ₂ Cu ₂ O ₈ + δ . Physical Review B, 1989, 39, 236-242.	1.1	102
134	Localization and Nonlinear Resistance in Telescopically Extended Nanotubes. Physical Review Letters, 2004, 93, 086801.	2.9	100
135	Nanomechanics of carbon nanotubes. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2008, 366, 1591-1611.	1.6	100
136	Nanotube Phonon Waveguide. Physical Review Letters, 2007, 99, 045901.	2.9	99
137	Activated Boron Nitride Derived from Activated Carbon. Nano Letters, 2004, 4, 173-176.	4.5	96
138	Effects of ambient humidity and temperature on the NO ₂ sensing characteristics of WS ₂ /graphene aerogel. Applied Surface Science, 2018, 450, 372-379.	3.1	96
139	Epitaxial intercalation of the Bi-Sr-Ca-Cu-O superconductor series. Physical Review B, 1991, 43, 11496-11499.	1.1	95
140	A dielectric-defined lateral heterojunction in a monolayer semiconductor. Nature Electronics, 2019, 2, 60-65.	13.1	95
141	Visualization of the flat electronic band in twisted bilayer graphene near the magic angle twist. Nature Physics, 2021, 17, 184-188.	6.5	93
142	High-throughput optical imaging and spectroscopy of individual carbon nanotubes in devices. Nature Nanotechnology, 2013, 8, 917-922.	15.6	92
143	Synthesis of Highly Crystalline sp ² -Bonded Boron Nitride Aerogels. ACS Nano, 2013, 7, 8540-8546.	7.3	92
144	Probing Nanoscale Solids at Thermal Extremes. Physical Review Letters, 2007, 99, 155901.	2.9	91

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145	Identification of spin, valley and moiré quasi-angular momentum of interlayer excitons. Nature Physics, 2019, 15, 1140-1144.	6.5	91
146	Charge density wave transport in a novel inorganic chain compound, (TaSe ₄) ₂ I. Solid State Communications, 1983, 46, 497-500.	0.9	89
147	Complete absence of isotope effect in YBa ₂ Cu ₃ O ₇ : Consequences for phonon-mediated superconductivity. Physical Review B, 1987, 36, 3990-3993.	1.1	89
148	Anisotropic thermoelectric power and conductivity in single-crystal YBa ₂ Cu ₃ O _y . Physical Review B, 1988, 37, 9734-9737.	1.1	88
149	Chemicals On Demand with Phototriggerable Microcapsules. Journal of the American Chemical Society, 2009, 131, 13586-13587.	6.6	88
150	Atomic Defects in Two Dimensional Materials. Advanced Materials, 2015, 27, 5771-5777.	11.1	88
151	Symmetry breaking and nonlinear electrodynamics in the ceramic superconductor YBa ₂ Cu ₃ O ₇ . Physical Review B, 1988, 37, 9840-9843.	1.1	87
152	Local charge-density-wave structure in 1T-TaS ₂ determined by scanning tunneling microscopy. Physical Review B, 1988, 38, 10734-10743.	1.1	87
153	Growth and morphology of 0.80eV photoemitting indium nitride nanowires. Applied Physics Letters, 2004, 85, 5670-5672.	1.5	87
154	Length control and sharpening of atomic force microscope carbon nanotube tips assisted by an electron beam. Nanotechnology, 2005, 16, 2493-2496.	1.3	86
155	High-temperature stability of suspended single-layer graphene. Physica Status Solidi - Rapid Research Letters, 2010, 4, 302-304.	1.2	86
156	Functionalized Boron Nitride Nanotubes with a Stannic Oxide Coating: A Novel Chemical Route to Full Coverage. Journal of the American Chemical Society, 2003, 125, 2062-2063.	6.6	84
157	Tunable Nanoresonators Constructed from Telescoping Nanotubes. Physical Review Letters, 2006, 96, 215503.	2.9	84
158	Platinum Nanoparticle Loading of Boron Nitride Aerogel and Its Use as a Novel Material for Low-Power Catalytic Gas Sensing. Advanced Functional Materials, 2016, 26, 433-439.	7.8	82
159	Tuning charge and correlation effects for a single molecule on a graphene device. Nature Communications, 2016, 7, 13553.	5.8	82
160	In Situ Localized Growth of Ordered Metal Oxide Hollow Sphere Array on Microheater Platform for Sensitive, Ultra-Fast Gas Sensing. ACS Applied Materials & Interfaces, 2017, 9, 2634-2641.	4.0	81
161	Charge-density-wave domains in 1T-TaS ₂ observed by satellite structure in scanning-tunneling-microscopy images. Physical Review Letters, 1991, 66, 3040-3043.	2.9	79
162	Graphene Nanopore with a Self-Integrated Optical Antenna. Nano Letters, 2014, 14, 5584-5589.	4.5	79

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163	Identifying Defects in Nanoscale Materials. Physical Review Letters, 2004, 93, 196803.	2.9	78
164	Encapsulation of One-Dimensional Potassium Halide Crystals within BN Nanotubes. Nano Letters, 2004, 4, 1355-1357.	4.5	78
165	Alternative stacking sequences in hexagonal boron nitride. 2D Materials, 2019, 6, 021006.	2.0	78
166	Current Oscillations and Stability of Charge-Density-Wave Motion in NbSe ₃ . Physical Review Letters, 1982, 49, 493-496.	2.9	77
167	Nanoscale Reversible Mass Transport for Archival Memory. Nano Letters, 2009, 9, 1835-1838.	4.5	76
168	Large-scale experimental and theoretical study of graphene grain boundary structures. Physical Review B, 2015, 92, .	1.1	75
169	Graphene-templated directional growth of an inorganic nanowire. Nature Nanotechnology, 2015, 10, 423-428.	15.6	75
170	Optically Discriminating Carrier-Induced Quasiparticle Band Gap and Exciton Energy Renormalization in Monolayer MoS ₂ . Physical Review Letters, 2017, 119, 087401.	2.9	74
171	Nanotubes from Inorganic Materials. , 2001, , 81-112.		73
172	Synthesis of aligned BxCyNz nanotubes by a substitution-reaction route. Chemical Physics Letters, 2001, 346, 368-372.	1.2	72
173	Catalytic hydrogen sensing using microheated platinum nanoparticle-loaded graphene aerogel. Sensors and Actuators B: Chemical, 2015, 206, 399-406.	4.0	72
174	Structure of boron nitride nanotubules. Applied Physics Letters, 2001, 78, 2772-2774.	1.5	71
175	Stability and dynamics of small molecules trapped on graphene. Physical Review B, 2010, 82, .	1.1	71
176	Magnetotransport properties of La _{0.6} Pb _{0.4} MnO ₃ and Nd _{0.6} (Sr _{0.7} Pb _{0.3}) _{0.4} MnO ₃ single crystals. Physical Review B, 1995, 52, 9147-9150.	1.1	70
177	Complete charge density-wave mode locking and freeze-out of fluctuations in NbSe ₃ . Physical Review B, 1985, 32, 5536-5539.	1.1	67
178	Transport properties of the superconducting oxide La _{1.85} Sr _{0.15} CuO ₄ . Physical Review B, 1987, 35, 8800-8803.	1.1	67
179	Energy gap in the high-T _c superconductor La _{1.85} Sr _{0.15} CuO ₄ . Physical Review B, 1987, 35, 5327-5329.	1.1	67
180	Low-power, fast, selective nanoparticle-based hydrogen sulfide gas sensor. Applied Physics Letters, 2012, 100, .	1.5	67

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