

# Alex K Zettl

## List of Publications by Year in descending order

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507  
papers

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997

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all docs

516  
docs citations

516  
times ranked

52375  
citing authors

#	ARTICLE	IF	CITATIONS
1	Targeting One- and Two-Dimensional TaTe Structures via Nanotube Encapsulation. Nano Letters, 2022, 22, 2285-2292.	9.1	14
2	Response to Comment on “Reversible disorder-order transitions in atomic crystal nucleation”. Science, 2022, 375, eabj3683.	12.6	0
3	Accelerated Ultrafast Magnetization Dynamics at Graphene/CoGd Interfaces. ACS Nano, 2022, 16, 9620-9630.	14.6	2
4	Imaging gate-tunable Tomonaga-Luttinger liquids in 1H-MoSe <sub>2</sub> mirror twin boundaries. Nature Materials, 2022, 21, 748-753.	27.5	17
5	Kirigami Engineering of Suspended Graphene Transducers. Nano Letters, 2022, 22, 5301-5306.	9.1	5
6	Tuning colour centres at a twisted hexagonal boron nitride interface. Nature Materials, 2022, 21, 896-902.	27.5	31
7	Visualization of the flat electronic band in twisted bilayer graphene near the magic angle twist. Nature Physics, 2021, 17, 184-188.	16.7	93
8	Stabilization of NbTe <sub>3</sub> , VTe <sub>3</sub> , and TiTe <sub>3</sub> via Nanotube Encapsulation. Journal of the American Chemical Society, 2021, 143, 4563-4568.	13.7	27
9	Identifying carbon as the source of visible single-photon emission from hexagonal boron nitride. Nature Materials, 2021, 20, 321-328.	27.5	210
10	Reversible disorder-order transitions in atomic crystal nucleation. Science, 2021, 371, 498-503.	12.6	117
11	Imaging moiré flat bands in three-dimensional reconstructed WSe <sub>2</sub> /WS <sub>2</sub> superlattices. Nature Materials, 2021, 20, 945-950.	27.5	118
12	One-Step Conversion of Graphite to Crinkled Boron Nitride Nanofoams for Hydrophobic Liquid Absorption. ACS Applied Nano Materials, 2021, 4, 3500-3507.	5.0	3
13	Nanoimaging of Low-Loss Plasmonic Waveguide Modes in a Graphene Nanoribbon. Nano Letters, 2021, 21, 3106-3111.	9.1	16
14	Ultranarrow TaS <sub>2</sub> Nanoribbons. Nano Letters, 2021, 21, 3211-3217.	9.1	16
15	Visualizing delocalized correlated electronic states in twisted double bilayer graphene. Nature Communications, 2021, 12, 2516.	12.8	30
16	Phase-contrast imaging of multiply-scattering extended objects at atomic resolution by reconstruction of the scattering matrix. Physical Review Research, 2021, 3, .	3.6	11
17	Probing subwavelength in-plane anisotropy with antenna-assisted infrared nano-spectroscopy. Nature Communications, 2021, 12, 2649.	12.8	9
18	Ultralow contact resistance between semimetal and monolayer semiconductors. Nature, 2021, 593, 211-217.	27.8	579

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19	Efficient Fizeau drag from Dirac electrons in monolayer graphene. <i>Nature</i> , 2021, 594, 517-521.	27.8	48
20	Imaging local discharge cascades for correlated electrons in WS <sub>2</sub> /WSe <sub>2</sub> moiré superlattices. <i>Nature Physics</i> , 2021, 17, 1114-1119.	16.7	36
21	Imaging two-dimensional generalized Wigner crystals. <i>Nature</i> , 2021, 597, 650-654.	27.8	147
22	Imaging Reconfigurable Molecular Concentration on a Graphene Field-Effect Transistor. <i>Nano Letters</i> , 2021, 21, 8770-8776.	9.1	6
23	Imaging Quantum Interference in Stadium-Shaped Monolayer and Bilayer Graphene Quantum Dots. <i>Nano Letters</i> , 2021, 21, 8993-8998.	9.1	7
24	Revealing the Brønsted-Evans-Polanyi relation in halide-activated fast MoS <sub>2</sub> growth toward millimeter-sized 2D crystals. <i>Science Advances</i> , 2021, 7, eabj3274.	10.3	18
25	Experimental and Theoretical Study of Possible Collective Electronic States in Exfoliable Re-Doped NbS <sub>2</sub> . <i>ACS Nano</i> , 2021, 15, 18297-18304.	14.6	7
26	Tunable Anion-Selective Transport through Monolayer Graphene and Hexagonal Boron Nitride. <i>ACS Nano</i> , 2020, 14, 2729-2738.	14.6	36
27	Layer-dependent topological phase in a two-dimensional quasicrystal and approximant. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 26135-26140.	7.1	16
28	High-Performance Atomically-Thin Room-Temperature NO <sub>2</sub> Sensor. <i>Nano Letters</i> , 2020, 20, 6120-6127.	9.1	34
29	Characterizing transition-metal dichalcogenide thin-films using hyperspectral imaging and machine learning. <i>Scientific Reports</i> , 2020, 10, 11602.	3.3	2
30	Graphene-Sealed Flow Cells for <i>In Situ</i> Transmission Electron Microscopy of Liquid Samples. <i>ACS Nano</i> , 2020, 14, 9637-9643.	14.6	29
31	Electron beam-induced nanopores in Bernal-stacked hexagonal boron nitride. <i>Applied Physics Letters</i> , 2020, 117, .	3.3	7
32	The ultrafast onset of exciton formation in 2D semiconductors. <i>Nature Communications</i> , 2020, 11, 5277.	12.8	57
33	Ultrahigh-resolution scanning microwave impedance microscopy of moiré lattices and superstructures. <i>Science Advances</i> , 2020, 6, .	10.3	23
34	Observation of Atomic Ordering in a Monolayer Semiconductor Alloy. <i>Microscopy and Microanalysis</i> , 2020, 26, 2366-2367.	0.4	0
35	Emergence of Topologically Nontrivial Spin-Polarized States in a Segmented Linear Chain. <i>Physical Review Letters</i> , 2020, 124, 206403.	7.8	18
36	Mott and generalized Wigner crystal states in WSe <sub>2</sub> /WS <sub>2</sub> moiré superlattices. <i>Nature</i> , 2020, 579, 359-363.	27.8	536

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37	Frustration and Atomic Ordering in a Monolayer Semiconductor Alloy. Physical Review Letters, 2020, 124, 096101.	7.8	19
38	Nonlinear Luttinger liquid plasmons in semiconducting single-walled carbon nanotubes. Nature Materials, 2020, 19, 986-991.	27.5	30
39	Reversible writing of high-mobility and high-carrier-density doping patterns in two-dimensional van der Waals heterostructures. Nature Electronics, 2020, 3, 99-105.	26.0	64
40	Global Control of Stacking-Order Phase Transition by Doping and Electric Field in Few-Layer Graphene. Nano Letters, 2020, 20, 3106-3112.	9.1	39
41	A molecular shift register made using tunable charge patterns in one-dimensional molecular arrays on graphene. Nature Electronics, 2020, 3, 598-603.	26.0	12
42	Autocorrected off-axis holography of two-dimensional materials. Physical Review Research, 2020, 2, .	3.6	5
43	Valley-dependent exciton fine structure and Autlerâ€“Townes doublets from Berry phases in monolayer MoSe2. Nature Materials, 2019, 18, 1065-1070.	27.5	34
44	Self-assembly and metal-directed assembly of organic semiconductor aerogels and conductive carbon nanofiber aerogels with controllable nanoscale morphologies. Carbon, 2019, 153, 648-656.	10.3	8
45	Metal-insulator transition in quasi-one-dimensional $\text{HfTe}_{1-x}\text{S}_{2x}$ in the few-chain limit. Physical Review B, 2019, 100, .	10.2	25
46	Electrically Driven Dynamics of Fewâ€“Chain NbSe 3. Physica Status Solidi (B): Basic Research, 2019, 256, 1900241.	1.5	0
47	Blue-light-emitting color centers in high-quality hexagonal boron nitride. Physical Review B, 2019, 100, .	3.2	36
48	Sculpting Liquids with Two-Dimensional Materials: The Assembly of $\text{Ti}_3\text{C}_2\text{T}_x$ MXene Sheets at Liquidâ€“Liquid Interfaces. ACS Nano, 2019, 13, 12385-12392.	14.6	52
49	Tunable electronic structure in gallium chalcogenide van der Waals compounds. Physical Review B, 2019, 100, .	3.2	6
50	Identification of spin, valley and moirâ€“ quasi-angular momentum of interlayer excitons. Nature Physics, 2019, 15, 1140-1144.	16.7	91
51	Plasma assisted formation of 3D highly porous nanostructured metal oxide network on microheater platform for Low power gas sensing. Sensors and Actuators B: Chemical, 2019, 301, 127067.	7.8	25
52	Frustrated supercritical collapse in tunable charge arrays on graphene. Nature Communications, 2019, 10, 477.	12.8	23
53	Metalloâ€“Hydrogelâ€“Assisted Synthesis and Direct Writing of Transition Metal Dichalcogenides. Advanced Functional Materials, 2019, 29, 1807612.	14.9	12
54	Ultrahigh-Temperature Ceramic Aerogels. Chemistry of Materials, 2019, 31, 3700-3704.	6.7	41

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55	Wafer-scale on-chip synthesis and field emission properties of vertically aligned boron nitride based nanofiber arrays. Applied Physics Letters, 2019, 114, 093101.	3.3	2
56	Alternative stacking sequences in hexagonal boron nitride. 2D Materials, 2019, 6, 021006.	4.4	78
57	Geometry and electronic structure of iridium adsorbed on graphene. Physical Review B, 2019, 99, .	3.2	14
58	Layer-Dependent Electronic Structure of Atomically Resolved Two-Dimensional Gallium Selenide Telluride. Nano Letters, 2019, 19, 1782-1787.	9.1	12
59	A dielectric-defined lateral heterojunction in a monolayer semiconductor. Nature Electronics, 2019, 2, 60-65.	26.0	95
60	Observation of moiré excitons in WSe <sub>2</sub> /WS <sub>2</sub> heterostructure superlattices. Nature, 2019, 567, 76-80.	27.8	791
61	Strain-controlled Graphene-Polymer Angular Actuator. MRS Advances, 2019, 4, 2161-2167.	0.9	2
62	Nanopatterning Hexagonal Boron Nitride with Helium Ion Milling: Towards Atomically-Thin, Nanostructured Insulators. MRS Advances, 2018, 3, 327-331.	0.9	7
63	Self-Assembled PCBM Nanosheets: A Facile Route to Electronic Layer-on-Layer Heterostructures. Nano Letters, 2018, 18, 1442-1447.	9.1	10
64	Effects of ambient humidity and temperature on the NO <sub>2</sub> sensing characteristics of WS <sub>2</sub> /graphene aerogel. Applied Surface Science, 2018, 450, 372-379.	6.1	96
65	Single-Photon Emitters in Boron Nitride Nanococoons. Nano Letters, 2018, 18, 2683-2688.	9.1	20
66	Microscopy of hydrogen and hydrogen-vacancy defect structures on graphene devices. Physical Review B, 2018, 98, .	3.2	5
67	Coronene-Based Graphene Nanoribbons Insulated by Boron Nitride Nanotubes: Electronic Properties of the Hybrid Structure. ACS Omega, 2018, 3, 12930-12935.	3.5	3
68	Imaging of pure spin-valley diffusion current in WS <sub>2</sub> -WSe <sub>2</sub> heterostructures. Science, 2018, 360, 893-896.	12.6	155
69	Visualization and Control of Single-Electron Charging in Bilayer Graphene Quantum Dots. Nano Letters, 2018, 18, 5104-5110.	9.1	41
70	Correlation of Electron Tunneling and Plasmon Propagation in a Luttinger Liquid. Physical Review Letters, 2018, 121, 047702.	7.8	21
71	Torsional instability in the single-chain limit of a transition metal trichalcogenide. Science, 2018, 361, 263-266.	12.6	60
72	Boron Doping and Defect Engineering of Graphene Aerogels for Ultrasensitive NO <sub>2</sub> Detection. Journal of Physical Chemistry C, 2018, 122, 20358-20365.	3.1	41

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73	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.	8.0	81
74	Spontaneous twisting of a collapsed carbon nanotube. Nano Research, 2017, 10, 1942-1949.	10.4	12
75	Synthesis of Single-Layer Graphene on Nickel Using a Droplet CVD Process. Advanced Materials Interfaces, 2017, 4, 1600783.	3.7	18
76	Low-power catalytic gas sensing using highly stable silicon carbide microheaters. Journal of Micromechanics and Microengineering, 2017, 27, 045003.	2.6	16
77	Molecular Arrangement and Charge Transfer in C <sub>60</sub> /Graphene Heterostructures. ACS Nano, 2017, 11, 4686-4693.	14.6	60
78	The Use of Graphene and Its Derivatives for Liquid-Phase Transmission Electron Microscopy of Radiation-Sensitive Specimens. Nano Letters, 2017, 17, 414-420.	9.1	120
79	The study of radiation effects in emerging micro and nano electro mechanical systems (MEMS and NEMS). Semiconductor Science and Technology, 2017, 32, 013005.	2.0	27
80	Direct Organization of Morphology-Controllable Mesoporous SnO <sub>2</sub> Using Amphiphilic Graft Copolymer for Gas-Sensing Applications. ACS Applied Materials & Interfaces, 2017, 9, 37246-37253.	8.0	24
81	Identifying and Engineering the Stacking Sequence in CVD Grown Few-layer MoS <sub>2</sub> via Aberration-corrected STEM. Microscopy and Microanalysis, 2017, 23, 2006-2007.	0.4	0
82	Conductometric gas sensing behavior of WS <sub>2</sub> aerogel. FlatChem, 2017, 5, 1-8.	5.6	36
83	Optically Discriminating Carrier-Induced Quasiparticle Band Gap and Exciton Energy Renormalization in Monolayer $\text{MoS}_2$ . Physical Review Letters, 2017, 119, 087401.	7.8	74
84	Dynamics of Symmetry-Breaking Stacking Boundaries in Bilayer MoS <sub>2</sub> . Journal of Physical Chemistry C, 2017, 121, 22559-22566.	3.1	22
85	Graphene: Preventing Thin Film Dewetting via Graphene Capping (Adv. Mater. 36(2017)). Advanced Materials, 2017, 29, .	21.0	0
86	Preventing Thin Film Dewetting via Graphene Capping. Advanced Materials, 2017, 29, 1701536.	21.0	23
87	3D MoS <sub>2</sub> Aerogel for Ultrasensitive NO <sub>2</sub> Detection and Its Tunable Sensing Behavior. Advanced Materials Interfaces, 2017, 4, 1700217.	3.7	60
88	Spatially resolving density-dependent screening around a single charged atom in graphene. Physical Review B, 2017, 95, .	3.2	16
89	Density Tunable Graphene Aerogels Using a Sacrificial Polycyclic Aromatic Hydrocarbon. Physica Status Solidi (B): Basic Research, 2017, 254, 1700203.	1.5	2
90	Fabrication of Subnanometer-Precision Nanopores in Hexagonal Boron Nitride. Scientific Reports, 2017, 7, 15096.	3.3	54

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91	Selective Insulation of Carbon Nanotubes. Physica Status Solidi (B): Basic Research, 2017, 254, 1700202.	1.5	0
92	Interlayer electron-phonon coupling in WSe <sub>2</sub> /hBN heterostructures. Nature Physics, 2017, 13, 127-131.	16.7	173
93	Graded bandgap perovskite solar cells. Nature Materials, 2017, 16, 522-525.	27.5	135
94	Narrowband noise study of sliding charge density waves in NbSe <sub>3</sub> nanoribbons. New Journal of Physics, 2017, 19, 023001.	2.9	4
95	Surface-normal electro-optic spatial light modulator using graphene integrated on a high-contrast grating resonator. Optics Express, 2016, 24, 26035.	3.4	39
96	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.	14.9	82
97	High Surface Area MoS <sub>2</sub> /Graphene Hybrid Aerogel for Ultrasensitive NO <sub>2</sub> Detection. Advanced Functional Materials, 2016, 26, 5158-5165.	14.9	357
98	Graphene-sealed Si/SiN cavities for high-resolution in situ electron microscopy of nano-confined solutions (Phys. Status Solidi B 12/2016). Physica Status Solidi (B): Basic Research, 2016, 253, 2544-2544.	1.5	1
99	Automatic software correction of residual aberrations in reconstructed HRTEM exit waves of crystalline samples. Advanced Structural and Chemical Imaging, 2016, 2, 15.	4.0	14
100	Gas Sensors: Platinum Nanoparticle Loading of Boron Nitride Aerogel and Its Use as a Novel Material for Low-Power Catalytic Gas Sensing (Adv. Funct. Mater. 3/2016). Advanced Functional Materials, 2016, 26, 314-314.	14.9	3
101	Efficient preparation of graphene liquid cell utilizing direct transfer with large-area well-stitched graphene. Chemical Physics Letters, 2016, 650, 107-112.	2.6	32
102	Graphene-sealed Si/SiN cavities for high-resolution in situ electron microscopy of nano-confined solutions. Physica Status Solidi (B): Basic Research, 2016, 253, 2351-2354.	1.5	21
103	Formation and Dynamics of Electron-Irradiation-Induced Defects in Hexagonal Boron Nitride at Elevated Temperatures. Nano Letters, 2016, 16, 7142-7147.	9.1	49
104	Electrostatically Driven Nanoballoon Actuator. Nano Letters, 2016, 16, 6787-6791.	9.1	16
105	Synthesis of graphene nanoribbons inside boron nitride nanotubes. Physica Status Solidi (B): Basic Research, 2016, 253, 2377-2379.	1.5	9
106	Selenium capped monolayer NbSe <sub>2</sub> for two-dimensional superconductivity studies. Physica Status Solidi (B): Basic Research, 2016, 253, 2396-2399.	1.5	17
107	Tuning charge and correlation effects for a single molecule on a graphene device. Nature Communications, 2016, 7, 13553.	12.8	82
108	Identifying different stacking sequences in few-layer CVD-grown $\text{MoS}_2$ by low-energy atomic-resolution scanning transmission electron microscopy. Physical Review B, 2016, 93,	3.2	51

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109	Single-particle mapping of nonequilibrium nanocrystal transformations. <i>Science</i> , 2016, 354, 874-877.	12.6	204
110	Hexagonal boron nitride as a cationic diffusion barrier to form a graded band gap perovskite heterostructure. <i>Physica Status Solidi (B): Basic Research</i> , 2016, 253, 2478-2480.	1.5	4
111	Imaging electrostatically confined Dirac fermions in graphene quantum dots. <i>Nature Physics</i> , 2016, 12, 1032-1036.	16.7	176
112	Real-Time Observation of Water-Soluble Mineral Precipitation in Aqueous Solution by In Situ High-Resolution Electron Microscopy. <i>ACS Nano</i> , 2016, 10, 88-92.	14.6	38
113	Nanoscale Control of Rewriteable Doping Patterns in Pristine Graphene/Boron Nitride Heterostructures. <i>Nano Letters</i> , 2016, 16, 1620-1625.	9.1	60
114	In Situ Localized Growth of Porous Tin Oxide Films on Low Power Microheater Platform for Low Temperature CO Detection. <i>ACS Sensors</i> , 2016, 1, 339-343.	7.8	57
115	A Universal Wet-Chemistry Route to Metal Filling of Boron Nitride Nanotubes. <i>Nano Letters</i> , 2016, 16, 320-325.	9.1	20
116	Characterization of collective ground states in single-layer NbSe <sub>2</sub> . <i>Nature Physics</i> , 2016, 12, 92-97.	16.7	536
117	Local spectroscopy of moiré-induced electronic structure in gate-tunable twisted bilayer graphene. <i>Physical Review B</i> , 2015, 92, .	3.2	114
118	Large-scale experimental and theoretical study of graphene grain boundary structures. <i>Physical Review B</i> , 2015, 92, .	3.2	75
119	Fabrication of Gate-tunable Graphene Devices for Scanning Tunneling Microscopy Studies with Coulomb Impurities. <i>Journal of Visualized Experiments</i> , 2015, , e52711.	0.3	7
120	Atomic Defects in Two Dimensional Materials. <i>Advanced Materials</i> , 2015, 27, 5771-5777.	21.0	88
121	Self-Passivation of Defects: Effects of High-Energy Particle Irradiation on the Elastic Modulus of Multilayer Graphene. <i>Advanced Materials</i> , 2015, 27, 6841-6847.	21.0	24
122	Large-Scale Molecular Dynamics and High-Resolution Transmission Electron Microscopy Study of Graphene Grain Boundaries. <i>Microscopy and Microanalysis</i> , 2015, 21, 1451-1452.	0.4	0
123	Nanoscale structure and superhydrophobicity of sp <sup>2</sup> -bonded boron nitride aerogels. <i>Nanoscale</i> , 2015, 7, 10449-10458.	5.6	41
124	Metal insulator semiconductor solar cell devices based on a Cu <sub>2</sub> O substrate utilizing h-BN as an insulating and passivating layer. <i>Applied Physics Letters</i> , 2015, 106, .	3.3	20
125	High-performance transition metal-doped Pt <sub>3</sub> Ni octahedra for oxygen reduction reaction. <i>Science</i> , 2015, 348, 1230-1234.	12.6	1,623
126	Low power microheater-based combustible gas sensor with graphene aerogel catalyst support. , 2015, , .		2



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127	Fast response integrated MEMS microheaters for ultra low power gas detection. Sensors and Actuators A: Physical, 2015, 223, 67-75.	4.1	103
128	C <sub>60</sub> /Collapsed Carbon Nanotube Hybrids: A Variant of Peapods. Nano Letters, 2015, 15, 829-834.	9.1	26
129	Optimizing Broadband Terahertz Modulation with Hybrid Graphene/Metasurface Structures. Nano Letters, 2015, 15, 372-377.	9.1	109
130	Graphene electrostatic microphone and ultrasonic radio. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 8942-8946.	7.1	136
131	Vibrational spectroscopy at electrolyte/electrode interfaces with graphene gratings. Nature Communications, 2015, 6, 7593.	12.8	15
132	3D structure of individual nanocrystals in solution by electron microscopy. Science, 2015, 349, 290-295.	12.6	238
133	Topological valley transport at bilayer graphene domain walls. Nature, 2015, 520, 650-655.	27.8	502
134	Graphene-templated directional growth of an inorganic nanowire. Nature Nanotechnology, 2015, 10, 423-428.	31.5	75
135	Molecular Self-Assembly in a Poorly Screened Environment: F <sub>4</sub> TCNQ on Graphene/BN. ACS Nano, 2015, 9, 12168-12173.	14.6	45
136	Characterization and manipulation of individual defects in insulating hexagonal boron nitride using scanning tunnelling microscopy. Nature Nanotechnology, 2015, 10, 949-953.	31.5	192
137	Direct Growth of Single- and Few-Layer MoS <sub>2</sub> on h-BN with Preferred Relative Rotation Angles. Nano Letters, 2015, 15, 6324-6331.	9.1	172
138	Fabrication of One-Dimensional Zigzag [6,6]-Phenyl-C <sub>61</sub> -Butyric Acid Methyl Ester Nanoribbons from Two-Dimensional Nanosheets. ACS Nano, 2015, 9, 10516-10522.	14.6	10
139	Catalytic hydrogen sensing using microheated platinum nanoparticle-loaded graphene aerogel. Sensors and Actuators B: Chemical, 2015, 206, 399-406.	7.8	72
140	Controlled growth of a line defect in graphene and implications for gate-tunable valley filtering. Physical Review B, 2014, 89, .	3.2	117
141	Studies of the dynamics of biological macromolecules using Au nanoparticleâ€DNA artificial molecules. Faraday Discussions, 2014, 175, 203-214.	3.2	10
142	Facile electron-beam lithography technique for irregular and fragile substrates. Applied Physics Letters, 2014, 105, 173109.	3.3	6
143	Subnanometer Vacancy Defects Introduced on Graphene by Oxygen Gas. Journal of the American Chemical Society, 2014, 136, 2232-2235.	13.7	125
144	Nanostructures on graphene using supramolecule and supramolecular nanocomposites. Nanoscale, 2014, 6, 4503-4507.	5.6	5

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145	Controlling Graphene Ultrafast Hot Carrier Response from Metal-like to Semiconductor-like by Electrostatic Gating. Nano Letters, 2014, 14, 1578-1582.	9.1	136
146	Graphene Nanopore with Self-Aligned Plasmonic Optical Antenna. Biophysical Journal, 2014, 106, 414a.	0.5	2
147	Conserved Atomic Bonding Sequences and Strain Organization of Graphene Grain Boundaries. Nano Letters, 2014, 14, 7057-7063.	9.1	40
148	Simultaneous Sheet Cross-Linking and Deoxygenation in the Graphene Oxide Solâ€“Gel Transition. Journal of Physical Chemistry C, 2014, 118, 28855-28860.	3.1	35
149	High-Yield Synthesis of Boron Nitride Nanoribbons <i>via</i> Longitudinal Splitting of Boron Nitride Nanotubes by Potassium Vapor. ACS Nano, 2014, 8, 9867-9873.	14.6	27
150	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.	9.1	125
151	Performance Enhancement of a Graphene-Zinc Phosphide Solar Cell Using the Electric Field-Effect. Nano Letters, 2014, 14, 4280-4285.	9.1	45
152	Probing Local Strain at MX <sub>2</sub> â€“Metal Boundaries with Surface Plasmon-Enhanced Raman Scattering. Nano Letters, 2014, 14, 5329-5334.	9.1	118
153	Synthesis and Characterization of Highly Crystalline Graphene Aerogels. ACS Nano, 2014, 8, 11013-11022.	14.6	162
154	Van der Waals-coupled electronic states in incommensurate double-walled carbon nanotubes. Nature Physics, 2014, 10, 737-742.	16.7	63
155	Evolution of interlayer coupling in twisted molybdenum disulfide bilayers. Nature Communications, 2014, 5, 4966.	12.8	533
156	Graphene Nanopore with a Self-Integrated Optical Antenna. Nano Letters, 2014, 14, 5584-5589.	9.1	79
157	Tunable Phonon Polaritons in Atomically Thin van der Waals Crystals of Boron Nitride. Science, 2014, 343, 1125-1129.	12.6	957
158	Photoinduced doping in heterostructures of graphene and boron nitride. Nature Nanotechnology, 2014, 9, 348-352.	31.5	287
159	Imaging and Tuning Molecular Levels at the Surface of a Gated Graphene Device. ACS Nano, 2014, 8, 5395-5401.	14.6	39
160	Statistical Characterization of High Angle Graphene Grain Boundaries at Atomic Resolution. Microscopy and Microanalysis, 2014, 20, 1056-1057.	0.4	0
161	In Situ High Temperature Atomic Resolution Transmission Electron Microscopy of 2D Nanomaterials. Microscopy and Microanalysis, 2014, 20, 1770-1771.	0.4	0
162	3D Motion of DNA-Au Nanoconjugates in Graphene Liquid Cell Electron Microscopy. Nano Letters, 2013, 13, 4556-4561.	9.1	184

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163	Electronic and plasmonic phenomena at graphene grain boundaries. Nature Nanotechnology, 2013, 8, 821-825.	31.5	226
164	Atomically perfect torn graphene edges and their reversible reconstruction. Nature Communications, 2013, 4, 2723.	12.8	110
165	High-throughput optical imaging and spectroscopy of individual carbon nanotubes in devices. Nature Nanotechnology, 2013, 8, 917-922.	31.5	92
166	Measurement of the intrinsic strength of crystalline and polycrystalline graphene. Nature Communications, 2013, 4, .	12.8	246
167	Enhanced Solid-State Order and Field-Effect Hole Mobility through Control of Nanoscale Polymer Aggregation. Journal of the American Chemical Society, 2013, 135, 19229-19236.	13.7	194
168	Synthesis of Highly Crystalline sp <sup>2</sup> -Bonded Boron Nitride Aerogels. ACS Nano, 2013, 7, 8540-8546.	14.6	92
169	Observing Atomic Collapse Resonances in Artificial Nuclei on Graphene. Science, 2013, 340, 734-737.	12.6	223
170	Experimentally Engineering the Edge Termination of Graphene Nanoribbons. ACS Nano, 2013, 7, 198-202.	14.6	147
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