KianPing Loh

List of Publications by Year in descending order

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628	69,250	993	871
papers	citations	114 h-index	243 g-index

649	649	649	66267
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	The chemistry of two-dimensional layered transition metal dichalcogenide nanosheets. Nature Chemistry, 2013, 5, 263-275.	6.6	8,051
2	Graphene oxide as a chemically tunable platform for optical applications. Nature Chemistry, 2010, 2, 1015-1024.	6.6	2,966
3	Atomicâ€Layer Graphene as a Saturable Absorber for Ultrafast Pulsed Lasers. Advanced Functional Materials, 2009, 19, 3077-3083.	7.8	2,310
4	Graphene Photonics, Plasmonics, and Broadband Optoelectronic Devices. ACS Nano, 2012, 6, 3677-3694.	7.3	1,749
5	Hydrothermal Dehydration for the â€œGreenâ€•Reduction of Exfoliated Graphene Oxide to Graphene and Demonstration of Tunable Optical Limiting Properties. Chemistry of Materials, 2009, 21, 2950-2956.	3.2	1,430
6	The chemistry of graphene. Journal of Materials Chemistry, 2010, 20, 2277.	6.7	1,350
7	One-Pot Synthesis of Fluorescent Carbon Nanoribbons, Nanoparticles, and Graphene by the Exfoliation of Graphite in Ionic Liquids. ACS Nano, 2009, 3, 2367-2375.	7.3	1,093
8	Molybdenum disulfide (MoS_2) as a broadband saturable absorber for ultra-fast photonics. Optics Express, 2014, 22, 7249.	1.7	1,008
9	Broadband graphene polarizer. Nature Photonics, 2011, 5, 411-415.	15.6	961
10	Origin of Enhanced Stem Cell Growth and Differentiation on Graphene and Graphene Oxide. ACS Nano, 2011, 5, 7334-7341.	7.3	953
11	Electrocatalytically Active Grapheneâ€“Porphyrin MOF Composite for Oxygen Reduction Reaction. Journal of the American Chemical Society, 2012, 134, 6707-6713.	6.6	951
12	A Graphene Oxide and Copperâ€Centered Metal Organic Framework Composite as a Triâ€Functional Catalyst for HER, OER, and ORR. Advanced Functional Materials, 2013, 23, 5363-5372.	7.8	858
13	Length-dependent thermal conductivity in suspended single-layer graphene. Nature Communications, 2014, 5, 3689.	5.8	735
14	Solution-Gated Epitaxial Graphene as pH Sensor. Journal of the American Chemical Society, 2008, 130, 14392-14393.	6.6	675
15	High yield exfoliation of two-dimensional chalcogenides using sodium naphthalenide. Nature Communications, 2014, 5, 2995.	5.8	655
16	Low-dimensional catalysts for hydrogen evolution and CO2 reduction. Nature Reviews Chemistry, 2018, 2, .	13.8	631
17	Transforming C60 molecules into graphene quantum dots. Nature Nanotechnology, 2011, 6, 247-252.	15.6	587
18	High-Yield Synthesis of Few-Layer Graphene Flakes through Electrochemical Expansion of Graphite in Propylene Carbonate Electrolyte. Journal of the American Chemical Society, 2011, 133, 8888-8891.	6.6	539

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19	Probing the catalytic activity of porous graphene oxide and the origin of this behaviour. Nature Communications, 2012, 3, 1298.	5.8	538
20	Electrochemical Delamination of CVD-Grown Graphene Film: Toward the Recyclable Use of Copper Catalyst. ACS Nano, 2011, 5, 9927-9933.	7.3	529
21	Large energy mode locking of an erbium-doped fiber laser with atomic layer graphene. Optics Express, 2009, 17, 17630.	1.7	512
22	Interface Engineering of Layerâ€byâ€Layer Stacked Graphene Anodes for Highâ€Performance Organic Solar Cells. Advanced Materials, 2011, 23, 1514-1518.	11.1	489
23	Reversible multi-electron redox chemistry ofÂÏ€-conjugated N-containing heteroaromatic molecule-based organic cathodes. Nature Energy, 2017, 2, .	19.8	486
24	Carbocatalysts: Graphene Oxide and Its Derivatives. Accounts of Chemical Research, 2013, 46, 2275-2285.	7.6	477
25	Graphene mode locked, wavelength-tunable, dissipative soliton fiber laser. Applied Physics Letters, 2010, 96, .	1.5	456
26	High Mobility, Printable, and Solution-Processed Graphene Electronics. Nano Letters, 2010, 10, 92-98.	4.5	455
27	Large energy soliton erbium-doped fiber laser with a graphene-polymer composite mode locker. Applied Physics Letters, 2009, 95, .	1.5	450
28	Grapheneâ€“Polymer Nanofiber Membrane for Ultrafast Photonics. Advanced Functional Materials, 2010, 20, 782-791.	7.8	434
29	Electrochemical Double-Layer Capacitance of MoS[sub 2] Nanowall Films. Electrochemical and Solid-State Letters, 2007, 10, A250.	2.2	412
30	Monolayer graphene as a saturable absorber in a mode-locked laser. Nano Research, 2011, 4, 297-307.	5.8	408
31	Structure-Directing Role of Graphene in the Synthesis of Metalâ^'Organic Framework Nanowire. Journal of the American Chemical Society, 2010, 132, 14487-14495.	6.6	403
32	Large area, continuous, few-layered graphene as anodes in organic photovoltaic devices. Applied Physics Letters, 2009, 95, .	1.5	394
33	Face-to-face transfer of wafer-scale graphene films. Nature, 2014, 505, 190-194.	13.7	386
34	Controlling many-body states by the electric-field effect in a two-dimensional material. Nature, 2016, 529, 185-189.	13.7	385
35	Aqueous rechargeable lithium batteries as an energy storage system of superfast charging. Energy and Environmental Science, 2013, 6, 2093.	15.6	348
36	Atomic layer deposition of a MoS₂film. Nanoscale, 2014, 6, 10584-10588.	2.8	335

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37	Hierarchically Porous Carbon Plates Derived from Wood as Bifunctional ORR/OER Electrodes. Advanced Materials, 2019, 31, e1900341.	11.1	320
38	Fluorinated Graphene for Promoting Neuroâ€Induction of Stem Cells. Advanced Materials, 2012, 24, 4285-4290.	11.1	315
39	Microstructuring of Graphene Oxide Nanosheets Using Direct Laser Writing. Advanced Materials, 2010, 22, 67-71.	11.1	311
40	A two-dimensional conjugated aromatic polymer via Câ€“C coupling reaction. Nature Chemistry, 2017, 9, 563-570.	6.6	306
41	Direct Synthesis of Largeâ€Area 2D Mo₂C on In Situ Grown Graphene. Advanced Materials, 2017, 29, 1700072.	11.1	305
42	A Graphene Oxideâ€“Organic Dye Ionic Complex with DNAâ€Sensing and Opticalâ€Limiting Properties. Angewandte Chemie - International Edition, 2010, 49, 6549-6553.	7.2	304
43	Molecularly thin two-dimensional hybrid perovskites with tunable optoelectronic properties due to reversible surface relaxation. Nature Materials, 2018, 17, 908-914.	13.3	295
44	Multilayer Hybrid Films Consisting of Alternating Graphene and Titania Nanosheets with Ultrafast Electron Transfer and Photoconversion Properties. Advanced Functional Materials, 2009, 19, 3638-3643.	7.8	294
45	Î±-Fe2O3 nanotubes-reduced graphene oxide composites as synergistic electrochemical capacitor materials. Nanoscale, 2012, 4, 2958.	2.8	273
46	Graphene oxide and Rose Bengal: oxidative Câ€“H functionalisation of tertiary amines using visible light. Green Chemistry, 2011, 13, 3341.	4.6	268
47	Graphene-Based SELDI Probe with Ultrahigh Extraction and Sensitivity for DNA Oligomer. Journal of the American Chemical Society, 2010, 132, 10976-10977.	6.6	264
48	High-Throughput Synthesis of Graphene by Intercalationâ^'Exfoliation of Graphite Oxide and Study of Ionic Screening in Graphene Transistor. ACS Nano, 2009, 3, 3587-3594.	7.3	263
49	Chemical Vapor Deposition of Large-Size Monolayer MoSe₂ Crystals on Molten Glass. Journal of the American Chemical Society, 2017, 139, 1073-1076.	6.6	258
50	Highly Efficient Thermally Co-evaporated Perovskite Solar Cells and Mini-modules. Joule, 2020, 4, 1035-1053.	11.7	257
51	Chemically Exfoliated VSe₂ Monolayers with Roomâ€Temperature Ferromagnetism. Advanced Materials, 2019, 31, e1903779.	11.1	251
52	Atomically-thin Bi2MoO6 nanosheets with vacancy pairs for improved photocatalytic CO2 reduction. Nano Energy, 2019, 61, 54-59.	8.2	243
53	Magnetic Molybdenum Disulfide Nanosheet Films. Nano Letters, 2007, 7, 2370-2376.	4.5	239
54	Direct Voltammetric Detection of DNA and pH Sensing on Epitaxial Graphene: An Insight into the Role of Oxygenated Defects. Analytical Chemistry, 2010, 82, 7387-7393.	3.2	235

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55	When stem cells meet graphene: Opportunities and challenges in regenerative medicine. Biomaterials, 2018, 155, 236-250.	5.7	232
56	Dissipative soliton operation of an ytterbium-doped fiber laser mode locked with atomic multilayer graphene. Optics Letters, 2010, 35, 3622.	1.7	230
57	Tuneable near white-emissive two-dimensional covalent organic frameworks. Nature Communications, 2018, 9, 2335.	5.8	230
58	Synthesis and reduction of large sized graphene oxide sheets. Chemical Society Reviews, 2017, 46, 7306-7316.	18.7	221
59	Direct Observation of Single-Walled Carbon Nanotube Growth at the Atomistic Scale. Nano Letters, 2006, 6, 449-452.	4.5	217
60	Phase Restructuring in Transition Metal Dichalcogenides for Highly Stable Energy Storage. ACS Nano, 2016, 10, 9208-9215.	7.3	216
61	Compact graphene mode-locked wavelength-tunable erbium-doped fiber lasers: from all anomalous dispersion to all normal dispersion. Laser Physics Letters, 0, 7, 591-596.	0.6	214
62	Dynamical Observation of Bamboo-like Carbon Nanotube Growth. Nano Letters, 2007, 7, 2234-2238.	4.5	213
63	Two-dimensional dichalcogenides for light-harvesting applications. Nano Today, 2015, 10, 128-137.	6.2	208
64	Highly photoluminescent two-dimensional imine-based covalent organic frameworks for chemical sensing. Chemical Communications, 2018, 54, 2349-2352.	2.2	205
65	Li Storage and Impedance Spectroscopy Studies on Co₃O₄, CoO, and CoN for Li-Ion Batteries. ACS Applied Materials & Interfaces, 2014, 6, 680-690.	4.0	200
66	Visible-Light Photocatalysis of Aerobic Oxidation Reactions Using Carbazolic Conjugated Microporous Polymers. ACS Catalysis, 2016, 6, 3594-3599.	5.5	195
67	Atomic Healing of Defects in Transition Metal Dichalcogenides. Nano Letters, 2015, 15, 3524-3532.	4.5	194
68	Growth of Bismuth Sulfide Nanowire Using Bismuth Trisxanthate Single Source Precursors. Chemistry of Materials, 2003, 15, 4544-4554.	3.2	192
69	Engineering covalently bonded 2D layered materials by self-intercalation. Nature, 2020, 581, 171-177.	13.7	185
70	Atomic structure of the 6Hâ€“SiC(0001) nanomesh. Surface Science, 2005, 596, 176-186.	0.8	179
71	Ultrafast charge transfer in MoS ₂ /WSe ₂ pâ€“n Heterojunction. 2D Materials, 2016, 3, 025020.	2.0	179
72	Interface confined hydrogen evolution reaction in zero valent metal nanoparticles-intercalated molybdenum disulfide. Nature Communications, 2017, 8, 14548.	5.8	174

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73	Chemical Stabilization of 1Tâ€² Phase Transition Metal Dichalcogenides with Giant Optical Kerr Nonlinearity. Journal of the American Chemical Society, 2017, 139, 2504-2511.	6.6	171
74	Covalent Organic Framework with Frustrated Bonding Network for Enhanced Carbon Dioxide Storage. Chemistry of Materials, 2018, 30, 1762-1768.	3.2	169
75	Defect engineered bioactive transition metals dichalcogenides quantum dots. Nature Communications, 2019, 10, 41.	5.8	168
76	Molecular Beam Epitaxy of Highly Crystalline Monolayer Molybdenum Disulfide on Hexagonal Boron Nitride. Journal of the American Chemical Society, 2017, 139, 9392-9400.	6.6	167
77	From bulk to molecularly thin hybrid perovskites. Nature Reviews Materials, 2020, 5, 482-500.	23.3	164
78	Molecular-Beam Epitaxy of Two-Dimensional In₂Se₃ and Its Giant Electroresistance Switching in Ferroresistive Memory Junction. Nano Letters, 2018, 18, 6340-6346.	4.5	163
79	Lithium Silicide Surface Enrichment: A Solution to Lithium Metal Battery. Advanced Materials, 2018, 30, e1801745.	11.1	163
80	One- and Two-Photon Turn-on Fluorescent Probe for Cysteine and Homocysteine with Large Emission Shift. Organic Letters, 2009, 11, 1257-1260.	2.4	159
81	Transforming moirÃ© blisters into geometric graphene nano-bubbles. Nature Communications, 2012, 3, 823.	5.8	157
82	Electrochemical Impedance Sensing of DNA Hybridization on Conducting Polymer Film-Modified Diamond. Journal of Physical Chemistry B, 2005, 109, 13611-13618.	1.2	153
83	Chemical Vapor Deposition of Largeâ€Sized Hexagonal WSe₂ Crystals on Dielectric Substrates. Advanced Materials, 2015, 27, 6722-6727.	11.1	152
84	Single-Atom Coated Separator for Robust Lithiumâ€“Sulfur Batteries. ACS Applied Materials & Interfaces, 2019, 11, 25147-25154.	4.0	152
85	Optimizing Label-Free DNA Electrical Detection on Graphene Platform. Analytical Chemistry, 2011, 83, 2452-2460.	3.2	151
86	Highâ€Performance Broadband Photodetector Using Solutionâ€Processible PbSeâ€“TiO₂â€“Graphene Hybrids. Advanced Materials, 2012, 24, 1697-1702.	11.1	151
87	Salicylideneanilines-Based Covalent Organic Frameworks as Chemoselective Molecular Sieves. Journal of the American Chemical Society, 2017, 139, 8897-8904.	6.6	151
88	A non-dispersion strategy for large-scale production of ultra-high concentration graphene slurries in water. Nature Communications, 2018, 9, 76.	5.8	151
89	Clinical Applications of Carbon Nanomaterials in Diagnostics and Therapy. Advanced Materials, 2018, 30, e1802368.	11.1	149
90	Layer-Stacking-Driven Fluorescence in a Two-Dimensional Imine-Linked Covalent Organic Framework. Journal of the American Chemical Society, 2018, 140, 12922-12929.	6.6	147

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91	Polarized Emission and Optical Waveguide in Crystalline Perylene Diimide Microwires. Advanced Materials, 2010, 22, 3661-3666.	11.1	146
92	Gate-Tunable Giant Stark Effect in Few-Layer Black Phosphorus. Nano Letters, 2017, 17, 1970-1977.	4.5	144
93	Polymer Brushes on Graphene. Journal of the American Chemical Society, 2011, 133, 10490-10498.	6.6	142
94	Energy Storage Studies on InVO₄ as High Performance Anode Material for Li-Ion Batteries. ACS Applied Materials & Interfaces, 2013, 5, 7777-7785.	4.0	142
95	Removal of microcystin-LR and microcystin-RR by graphene oxide: Adsorption and kinetic experiments. Water Research, 2013, 47, 4621-4629.	5.3	139
96	Vector dissipative solitons in graphene mode locked fiber lasers. Optics Communications, 2010, 283, 3334-3338.	1.0	138
97	Orderâ€“disorder transition in a two-dimensional boronâ€“carbonâ€“nitride alloy. Nature Communications, 2013, 4, 2681.	5.8	138
98	Biosensing Properties of Diamond and Carbon Nanotubes. Langmuir, 2004, 20, 5484-5492.	1.6	137
99	Vector multi-soliton operation and interaction in a graphene mode-locked fiber laser. Optics Express, 2013, 21, 10010.	1.7	135
100	Unraveling the Potassium Storage Mechanism in Graphite Foam. Advanced Energy Materials, 2019, 9, 1900579.	10.2	133
101	A Bioelectronic Platform Using a Grapheneâ˜Lipid Bilayer Interface. ACS Nano, 2010, 4, 7387-7394.	7.3	132
102	Highâ€Gain Grapheneâ€Titanium Oxide Photoconductor Made from Inkjet Printable Ionic Solution. Advanced Materials, 2010, 22, 5265-5270.	11.1	131
103	Achieving Ultrafast Hole Transfer at the Monolayer MoS₂ and CH₃NH₃PbI₃ Perovskite Interface by Defect Engineering. ACS Nano, 2016, 10, 6383-6391.	7.3	130
104	High-performance NaFePO₄formed by aqueous ion-exchange and its mechanism for advanced sodium ion batteries. Journal of Materials Chemistry A, 2016, 4, 4882-4892.	5.2	129
105	Gate-Tunable In-Plane Ferroelectricity in Few-Layer SnS. Nano Letters, 2019, 19, 5109-5117.	4.5	129
106	Covalentâ€Organicâ€Frameworkâ€Based Liâ€“CO₂ Batteries. Advanced Materials, 2019, 31, e1905879.	19.1	129
107	Function-oriented synthesis of two-dimensional (2D) covalent organic frameworks â€“ from 3D solids to 2D sheets. Chemical Society Reviews, 2020, 49, 4835-4866.	18.7	129
108	Chemical Vapor Deposition of Highâ€Quality Largeâ€Sized MoS₂ Crystals on Silicon Dioxide Substrates. Advanced Science, 2016, 3, 1500033.	5.6	128

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109	Room temperature ferromagnetism in partially hydrogenated epitaxial graphene. Applied Physics Letters, 2011, 98, .	1.5	126
110	In Situ Observation and Electrochemical Study of Encapsulated Sulfur Nanoparticles by MoS₂ Flakes. Journal of the American Chemical Society, 2017, 139, 10133-10141.	6.6	126
111	Controllable deuteration of halogenated compounds by photocatalytic D2O splitting. Nature Communications, 2018, 9, 80.	5.8	123
112	Leonurine Protects Middle Cerebral Artery Occluded Rats Through Antioxidant Effect and Regulation of Mitochondrial Function. Stroke, 2010, 41, 2661-2668.	1.0	120
113	Exploring Ferroelectric Switching in Î±â€In₂Se₃ for Neuromorphic Computing. Advanced Functional Materials, 2020, 30, 2004609.	7.8	119
114	Using Detonation Nanodiamond for the Specific Capture of Glycoproteins. Analytical Chemistry, 2008, 80, 4659-4665.	3.2	118
115	Plasmon dispersion on epitaxial graphene studied using high-resolution electron energy-loss spectroscopy. Physical Review B, 2009, 80, .	1.1	118
116	Tandem Catalysis of Amines Using Porous Graphene Oxide. Journal of the American Chemical Society, 2015, 137, 685-690.	6.6	118
117	Molten salt synthesis and energy storage studies on CuCo2O4 and CuOÂ·Co3O4. RSC Advances, 2012, 2, 9619.	1.7	117
118	Surface Functionalization of Black Phosphorus via Potassium toward High-Performance Complementary Devices. Nano Letters, 2017, 17, 4122-4129.	4.5	117
119	Engineering Bandgaps of Monolayer MoS₂ and WS₂ on Fluoropolymer Substrates by Electrostatically Tuned Manyâ€Body Effects. Advanced Materials, 2016, 28, 6457-6464.	11.1	116
120	Excitonâ€“Plasmon Coupling and Electromagnetically Induced Transparency in Monolayer Semiconductors Hybridized with Ag Nanoparticles. Advanced Materials, 2016, 28, 2709-2715.	11.1	115
121	Graphene and Graphene-like Molecules: Prospects in Solar Cells. Journal of the American Chemical Society, 2016, 138, 1095-1102.	6.6	115
122	Solution-Processable Covalent Organic Framework Electrolytes for All-Solid-State Liâ€“Organic Batteries. ACS Energy Letters, 2020, 5, 3498-3506.	8.8	114
123	Microlandscaping of Au Nanoparticles on Few-Layer MoS₂Films for Chemical Sensing. Small, 2015, 11, 1792-1800.	5.2	113
124	Tailoring sample-wide pseudo-magnetic fields on a grapheneâ€“black phosphorus heterostructure. Nature Nanotechnology, 2018, 13, 828-834.	15.6	113
125	Ferroelectricity and Rashba Effect in a Two-Dimensional Dion-Jacobson Hybrid Organicâ€“Inorganic Perovskite. Journal of the American Chemical Society, 2019, 141, 15972-15976.	6.6	113
126	Improved Photoelectrical Properties of MoS₂ Films after Laser Micromachining. ACS Nano, 2014, 8, 6334-6343.	7.3	112

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127	Controlled growth of ultrathin Mo ₂ C superconducting crystals on liquid Cu surface. 2D Materials, 2017, 4, 011012.	2.0	112
128	Toward High Throughput Interconvertible Graphane-to-Graphene Growth and Patterning. ACS Nano, 2010, 4, 6146-6152.	7.3	109
129	Graphene as Atomic Template and Structural Scaffold in the Synthesis of Grapheneâ"Organic Hybrid Wire with Photovoltaic Properties. ACS Nano, 2010, 4, 6180-6186.	7.3	109
130	Cell-Assembled Graphene Biocomposite for Enhanced Chondrogenic Differentiation. Small, 2015, 11, 963-969.	5.2	109
131	A Defect Engineered Electrocatalyst that Promotes High-Efficiency Urea Synthesis under Ambient Conditions. ACS Nano, 2022, 16, 8213-8222.	7.3	109
132	Molecular Engineering of Bandgaps in Covalent Organic Frameworks. Chemistry of Materials, 2018, 30, 5743-5749.	3.2	108
133	Proton-transfer-induced 3D/2D hybrid perovskites suppress ion migration and reduce luminance overshoot. Nature Communications, 2020, 11, 3378.	5.8	108
134	Flow Sensing of Single Cell by Graphene Transistor in a Microfluidic Channel. Nano Letters, 2011, 11, 5240-5246.	4.5	106
135	In-Plane Ferroelectric Tin Monosulfide and Its Application in a Ferroelectric Analog Synaptic Device. ACS Nano, 2020, 14, 7628-7638.	7.3	106
136	A flexible multiplexed immunosensor for point-of-care in situ wound monitoring. Science Advances, 2021, 7, .	4.7	106
137	Surface Transfer Doping of Diamond (100) by Tetrafluoro-tetracyanoquinodimethane. Journal of the American Chemical Society, 2007, 129, 8084-8085.	6.6	105
138	Controlled Hydrogenation of Graphene Sheets and Nanoribbons. ACS Nano, 2011, 5, 888-896.	7.3	105
139	Li-Cycling Properties of Molten Salt Method Prepared Nano/Submicrometer and Micrometer-Sized CuO for Lithium Batteries. ACS Applied Materials & Interfaces, 2013, 5, 4361-4366.	4.0	105
140	Mo-Terminated Edge Reconstructions in Nanoporous Molybdenum Disulfide Film. Nano Letters, 2018, 18, 482-490.	4.5	105
141	Phase Transformations in TiS₂ during K Intercalation. ACS Energy Letters, 2017, 2, 1835-1840.	8.8	104
142	Highly Wrinkled Crossâ€Linked Graphene Oxide Membranes for Biological and Chargeâ€Storage Applications. Small, 2012, 8, 423-431.	5.2	103
143	Realizing Interfacial Electronic Interaction within ZnS Quantum Dots/Nâ€rGO Heterostructures for Efficient Liâ€"CO₂ Batteries. Advanced Energy Materials, 2019, 9, 1901806.	10.2	101
144	Surface conditioning of chemical vapor deposited hexagonal boron nitride film for negative electron affinity. Applied Physics Letters, 1999, 74, 28-30.	1.5	100

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145	Making Patterns on Graphene. Advanced Materials, 2010, 22, 3615-3620.	11.1	100
146	Highly Enhanced Third-Harmonic Generation in 2D Perovskites at Excitonic Resonances. ACS Nano, 2018, 12, 644-650.	7.3	100
147	Tailoring pores in graphene-based materials: from generation to applications. Journal of Materials Chemistry A, 2017, 5, 16537-16558.	5.2	99
148	Linkage Engineering by Harnessing Supramolecular Interactions to Fabricate 2D Hydrazone-Linked Covalent Organic Framework Platforms toward Advanced Catalysis. Journal of the American Chemical Society, 2020, 142, 18138-18149.	6.6	99
149	Rapid, Scalable Construction of Highly Crystalline Acylhydrazone Two-Dimensional Covalent Organic Frameworks via Dipole-Induced Antiparallel Stacking. Journal of the American Chemical Society, 2020, 142, 4932-4943.	6.6	99
150	Coordination-Assisted Assembly of 1-D Nanostructured Light-Harvesting Antenna. Journal of the American Chemical Society, 2009, 131, 7210-7211.	6.6	97
151	Triple-State Liquid-Based Microfluidic Tactile Sensor with High Flexibility, Durability, and Sensitivity. ACS Sensors, 2016, 1, 543-551.	4.0	97
152	Dibenzothiopheneâ€S,Sâ€Dioxideâ€Based Conjugated Polymers: Highly Efficient Photocatalyts for Hydrogen Production from Water under Visible Light. Small, 2018, 14, e1801839.	5.2	96
153	Fundamental Transport Mechanisms and Advancements of Graphene Oxide Membranes for Molecular Separation. Chemistry of Materials, 2019, 31, 1829-1846.	3.2	95
154	Pressure-Engineered Structural and Optical Properties of Two-Dimensional (C₄H₉NH₃)₂PbI₄ Perovskite Exfoliated nm-Thin Flakes. Journal of the American Chemical Society, 2019, 141, 1235-1241.	6.6	95
155	Detonation Nanodiamond: An Organic Platform for the Suzuki Coupling of Organic Molecules. Langmuir, 2009, 25, 185-191.	1.6	92
156	Tunable Electrical Conductivity and Magnetic Property of the Two Dimensional Metal Organic Framework [Cu(TPyP)Cu₂(O₂CCH₃)₄]. ACS Applied Materials & Interfaces, 2016, 8, 16154-16159.	4.0	92
157	Two-Dimensional Polymer Synthesized via Solid-State Polymerization for High-Performance Supercapacitors. ACS Nano, 2018, 12, 852-860.	7.3	91
158	Self-Powered Photodetector Using Two-Dimensional Ferroelectric Dionâ€“Jacobson Hybrid Perovskites. Journal of the American Chemical Society, 2020, 142, 18592-18598.	6.6	90
159	Step Flow Versus Mosaic Film Growth in Hexagonal Boron Nitride. Journal of the American Chemical Society, 2013, 135, 2368-2373.	6.6	89
160	Lattice Relaxation at the Interface of Two-Dimensional Crystals: Graphene and Hexagonal Boron-Nitride. Nano Letters, 2014, 14, 5133-5139.	4.5	89
161	Partitioning the interlayer space of covalent organic frameworks by embedding pseudorotaxanes in their backbones. Nature Chemistry, 2020, 12, 1115-1122.	6.6	88
162	Compositional mapping of the argonâ€“methaneâ€“hydrogen system for polycrystalline to nanocrystalline diamond film growth in a hot-filament chemical vapor deposition system. Applied Physics Letters, 2000, 77, 2692-2694.	1.5	87

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163	Wide memory window in graphene oxide charge storage nodes. Applied Physics Letters, 2010, 96, .	1.5	87
164	Can Reconstructed Seâ€Deficient Line Defects in Monolayer VSe₂ Induce Magnetism?. Advanced Materials, 2020, 32, e2000693.	11.1	87
165	Room-Temperature Synthesis of Soluble Carbon Nanotubes by the Sonication of Graphene Oxide Nanosheets. Journal of the American Chemical Society, 2009, 131, 16832-16837.	6.6	85
166	An effective surface-enhanced Raman scattering template based on a Ag nanoclusterâ€“ZnO nanowire array. Nanotechnology, 2009, 20, 175705.	1.3	85
167	Polyquinoneimines for lithium storage: more than the sum of its parts. Materials Horizons, 2016, 3, 429-433.	6.4	85
168	Room Temperature Ferromagnetism of Monolayer Chromium Telluride with Perpendicular Magnetic Anisotropy. Advanced Materials, 2021, 33, e2103360.	11.1	84
169	The effect of post-annealing treatment on photoluminescence of ZnO nanorods prepared by hydrothermal synthesis. Journal of Crystal Growth, 2006, 287, 157-161.	0.7	83
170	Giant enhancement in vertical conductivity of stacked CVD graphene sheets by self-assembled molecular layers. Nature Communications, 2014, 5, 5461.	5.8	83
171	Electrochemical studies of few-layered graphene as an anode material for Li ion batteries. Journal of Solid State Electrochemistry, 2014, 18, 941-949.	1.2	82
172	Amino group enhanced phenazine derivatives as electrode materials for lithium storage. Chemical Communications, 2017, 53, 2914-2917.	2.2	81
173	Intrinsic polarization coupling in 2D Î±â€In₂Se₃ toward artificial synapse with multimode operations. SmartMat, 2021, 2, 88-98.	6.4	81
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