

# Hui-Ming Cheng

## List of Publications by Year in descending order

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790  
papers

131,809  
citations

86

169  
h-index

123

340  
g-index

826  
all docs

826  
docs citations

826  
times ranked

81863  
citing authors

#	ARTICLE	IF	CITATIONS
1	The reduction of graphene oxide. Carbon, 2012, 50, 3210-3228.	5.4	4,247
2	Advanced Materials for Energy Storage. Advanced Materials, 2010, 22, E28-62.	11.1	4,168
3	Three-dimensional flexible and conductive interconnected graphene networks grown by chemical vapour deposition. Nature Materials, 2011, 10, 424-428.	13.3	3,493
4	Graphene-Like Carbon Nitride Nanosheets for Improved Photocatalytic Activities. Advanced Functional Materials, 2012, 22, 4763-4770.	7.8	3,009
5	Graphene Anchored with $\text{Co}_3\text{O}_4$ Nanoparticles as Anode of Lithium Ion Batteries with Enhanced Reversible Capacity and Cyclic Performance. ACS Nano, 2010, 4, 3187-3194.	7.3	2,358
6	Doped Graphene Sheets As Anode Materials with Superhigh Rate and Large Capacity for Lithium Ion Batteries. ACS Nano, 2011, 5, 5463-5471.	7.3	1,904
7	Unique Electronic Structure Induced High Photoreactivity of Sulfur-Doped Graphitic $\text{C}_3\text{N}_4$ . Journal of the American Chemical Society, 2010, 132, 11642-11648.	6.6	1,856
8	Hydrogen Storage in Single-Walled Carbon Nanotubes at Room Temperature. Science, 1999, 286, 1127-1129.	6.0	1,795
9	Graphene-Wrapped $\text{Fe}_3\text{O}_4$ Anode Material with Improved Reversible Capacity and Cyclic Stability for Lithium Ion Batteries. Chemistry of Materials, 2010, 22, 5306-5313.	3.2	1,773
10	3D Aperiodic Hierarchical Porous Graphitic Carbon Material for High-Rate Electrochemical Capacitive Energy Storage. Angewandte Chemie - International Edition, 2008, 47, 373-376.	7.2	1,747
11	Lightweight and Flexible Graphene Foam Composites for High-Performance Electromagnetic Interference Shielding. Advanced Materials, 2013, 25, 1296-1300.	11.1	1,703
12	Graphene/metal oxide composite electrode materials for energy storage. Nano Energy, 2012, 1, 107-131.	8.2	1,669
13	Fabrication of Graphene/Polyaniline Composite Paper <i>via</i> <i>In Situ</i> Anodic Electropolymerization for High-Performance Flexible Electrode. ACS Nano, 2009, 3, 1745-1752.	7.3	1,464
14	Direct reduction of graphene oxide films into highly conductive and flexible graphene films by hydrohalic acids. Carbon, 2010, 48, 4466-4474.	5.4	1,459
15	High-Energy $\text{MnO}_2$ Nanowire/Graphene and Graphene Asymmetric Electrochemical Capacitors. ACS Nano, 2010, 4, 5835-5842.	7.3	1,448
16	More Reliable Lithium-Sulfur Batteries: Status, Solutions and Prospects. Advanced Materials, 2017, 29, 1606823.	11.1	1,414
17	Progress in flexible lithium batteries and future prospects. Energy and Environmental Science, 2014, 7, 1307-1338.	15.6	1,312
18	Fluorographene: A Two-Dimensional Counterpart of Teflon. Small, 2010, 6, 2877-2884.	5.2	1,146

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19	Anchoring Hydrrous RuO <sub>2</sub> on Graphene Sheets for High-Performance Electrochemical Capacitors. <i>Advanced Functional Materials</i> , 2010, 20, 3595-3602.	7.8	1,122
20	On the True Photoreactivity Order of {001}, {010}, and {101} Facets of Anatase TiO <sub>2</sub> Crystals. <i>Angewandte Chemie - International Edition</i> , 2011, 50, 2133-2137.	7.2	1,106
21	Large-area high-quality 2D ultrathin Mo <sub>2</sub> C superconducting crystals. <i>Nature Materials</i> , 2015, 14, 1135-1141.	13.3	1,045
22	Titania-based photocatalystsâ€”crystal growth, doping and heterostructuring. <i>Journal of Materials Chemistry</i> , 2010, 20, 831-843.	6.7	1,028
23	Chemical Vapor Deposition Growth and Applications of Two-Dimensional Materials and Their Heterostructures. <i>Chemical Reviews</i> , 2018, 118, 6091-6133.	23.0	1,000
24	Repeated growth and bubbling transfer of graphene with millimetre-size single-crystal grains using platinum. <i>Nature Communications</i> , 2012, 3, 699.	5.8	985
25	Oxygen Bridges between NiO Nanosheets and Graphene for Improvement of Lithium Storage. <i>ACS Nano</i> , 2012, 6, 3214-3223.	7.3	977
26	Reversible calcium alloying enables a practical room-temperature rechargeable calcium-ion battery with a high discharge voltage. <i>Nature Chemistry</i> , 2018, 10, 667-672.	6.6	971
27	Titanium Dioxide Crystals with Tailored Facets. <i>Chemical Reviews</i> , 2014, 114, 9559-9612.	23.0	922
28	Conductive porous vanadium nitride/graphene composite as chemical anchor of polysulfides for lithium-sulfur batteries. <i>Nature Communications</i> , 2017, 8, 14627.	5.8	912
29	A Grapheneâ€”Pureâ€”Sulfur Sandwich Structure for Ultrafast, Longâ€”Life Lithiumâ€”Sulfur Batteries. <i>Advanced Materials</i> , 2014, 26, 625-631.	11.1	908
30	Efficient Preparation of Large-Area Graphene Oxide Sheets for Transparent Conductive Films. <i>ACS Nano</i> , 2010, 4, 5245-5252.	7.3	869
31	Self-Assembled Free-Standing Graphite Oxide Membrane. <i>Advanced Materials</i> , 2009, 21, 3007-3011.	11.1	868
32	Crystal facet engineering of semiconductor photocatalysts: motivations, advances and unique properties. <i>Chemical Communications</i> , 2011, 47, 6763.	2.2	867
33	Grapheneâ€”Cellulose Paper Flexible Supercapacitors. <i>Advanced Energy Materials</i> , 2011, 1, 917-922.	10.2	831
34	Synthesis of Graphene Sheets with High Electrical Conductivity and Good Thermal Stability by Hydrogen Arc Discharge Exfoliation. <i>ACS Nano</i> , 2009, 3, 411-417.	7.3	807
35	An Amorphous Carbon Nitride Photocatalyst with Greatly Extended Visibleâ€”Lightâ€”Responsive Range for Photocatalytic Hydrogen Generation. <i>Advanced Materials</i> , 2015, 27, 4572-4577.	11.1	771
36	Carbonâ€”sulfur composites for Liâ€”S batteries: status and prospects. <i>Journal of Materials Chemistry A</i> , 2013, 1, 9382.	5.2	757

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37	Flexible graphene-based lithium ion batteries with ultrafast charge and discharge rates. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 17360-17365.	3.3	728
38	Fibrous Hybrid of Graphene and Sulfur Nanocrystals for High-Performance Lithium-Sulfur Batteries. ACS Nano, 2013, 7, 5367-5375.	7.3	722
39	Large-scale and low-cost synthesis of single-walled carbon nanotubes by the catalytic pyrolysis of hydrocarbons. Applied Physics Letters, 1998, 72, 3282-3284.	1.5	678
40	Purification of carbon nanotubes. Carbon, 2008, 46, 2003-2025.	5.4	660
41	Increasing the Visible Light Absorption of Graphitic Carbon Nitride (Melon) Photocatalysts by Homogeneous Self-Modification with Nitrogen Vacancies. Advanced Materials, 2014, 26, 8046-8052.	11.1	658
42	Synthesis of high-quality graphene with a pre-determined number of layers. Carbon, 2009, 47, 493-499.	5.4	650
43	Field Emission of Single-Layer Graphene Films Prepared by Electrophoretic Deposition. Advanced Materials, 2009, 21, 1756-1760.	11.1	624
44	Battery Performance and Photocatalytic Activity of Mesoporous Anatase TiO <sub>2</sub> Nanospheres/Graphene Composites by Template-Free Self-Assembly. Advanced Functional Materials, 2011, 21, 1717-1722.	7.8	601
45	Carbon Nanotubes and Graphene for Flexible Electrochemical Energy Storage: from Materials to Devices. Advanced Materials, 2016, 28, 4306-4337.	11.1	595
46	Visible Light Responsive Nitrogen Doped Anatase TiO <sub>2</sub> Sheets with Dominant {001} Facets Derived from TiN. Journal of the American Chemical Society, 2009, 131, 12868-12869.	6.6	570
47	Nitrogen Vacancy-Promoted Photocatalytic Activity of Graphitic Carbon Nitride. Journal of Physical Chemistry C, 2012, 116, 11013-11018.	1.5	570
48	Chemical vapor deposition of layered two-dimensional MoSi <sub>2</sub> N <sub>4</sub> materials. Science, 2020, 369, 670-674.	6.0	556
49	A Flexible Sulfur-Graphene-Polypropylene Separator Integrated Electrode for Advanced Li-S Batteries. Advanced Materials, 2015, 27, 641-647.	11.1	545
50	The Fabrication, Properties, and Uses of Graphene/Polymer Composites. Macromolecular Chemistry and Physics, 2012, 213, 1060-1077.	1.1	537
51	Hydrogen storage in carbon nanotubes. Carbon, 2001, 39, 1447-1454.	5.4	532
52	A graphene foam electrode with high sulfur loading for flexible and high energy Li-S batteries. Nano Energy, 2015, 11, 356-365.	8.2	526
53	Synthesis and Electrochemical Property of Boron-Doped Mesoporous Carbon in Supercapacitor. Chemistry of Materials, 2008, 20, 7195-7200.	3.2	511
54	Selective Breaking of Hydrogen Bonds of Layered Carbon Nitride for Visible Light Photocatalysis. Advanced Materials, 2016, 28, 6471-6477.	11.1	507

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55	Hollow Nanostructures for Photocatalysis: Advantages and Challenges. <i>Advanced Materials</i> , 2019, 31, e1801369.	11.1	506
56	Carbon materials for Li-S batteries: Functional evolution and performance improvement. <i>Energy Storage Materials</i> , 2016, 2, 76-106.	9.5	504
57	High Sensitivity Gas Detection Using a Macroscopic Three-Dimensional Graphene Foam Network. <i>Scientific Reports</i> , 2011, 1, 166.	1.6	503
58	3D Graphene-Foam-Reduced-Graphene-Oxide Hybrid Nested Hierarchical Networks for High-Performance Li-S Batteries. <i>Advanced Materials</i> , 2016, 28, 1603-1609.	11.1	497
59	3D Interconnected Electrode Materials with Ultrahigh Areal Sulfur Loading for Li-S Batteries. <i>Advanced Materials</i> , 2016, 28, 3374-3382.	11.1	488
60	Synergistic Effects of B/N Doping on the Visible-Light Photocatalytic Activity of Mesoporous TiO <sub>2</sub> . <i>Angewandte Chemie - International Edition</i> , 2008, 47, 4516-4520.	7.2	484
61	Graphene sponge for efficient and repeatable adsorption and desorption of water contaminations. <i>Journal of Materials Chemistry</i> , 2012, 22, 20197.	6.7	478
62	Enhanced photocatalytic hydrogen evolution by prolonging the lifetime of carriers in ZnO/CdS heterostructures. <i>Chemical Communications</i> , 2009, , 3452.	2.2	476
63	Incorporation of Graphenes in Nanostructured TiO <sub>2</sub> Films <i>via</i> Molecular Grafting for Dye-Sensitized Solar Cell Application. <i>ACS Nano</i> , 2010, 4, 3482-3488.	7.3	471
64	A flexible nanostructured sulphur-carbon nanotube cathode with high rate performance for Li-S batteries. <i>Energy and Environmental Science</i> , 2012, 5, 8901.	15.6	468
65	Green synthesis of graphene oxide by seconds timescale water electrolytic oxidation. <i>Nature Communications</i> , 2018, 9, 145.	5.8	468
66	Atomically Dispersed Transition Metals on Carbon Nanotubes with Ultrahigh Loading for Selective Electrochemical Carbon Dioxide Reduction. <i>Advanced Materials</i> , 2018, 30, e1706287.	11.1	459
67	Preparation of 2D material dispersions and their applications. <i>Chemical Society Reviews</i> , 2018, 47, 6224-6266.	18.7	459
68	Hierarchical porous nickel oxide and carbon as electrode materials for asymmetric supercapacitor. <i>Journal of Power Sources</i> , 2008, 185, 1563-1568.	4.0	439
69	Morphology and surface chemistry engineering toward pH-universal catalysts for hydrogen evolution at high current density. <i>Nature Communications</i> , 2019, 10, 269.	5.8	431
70	Highly stable graphene-oxide-based membranes with superior permeability. <i>Nature Communications</i> , 2018, 9, 1486.	5.8	428
71	Biological technologies for the remediation of co-contaminated soil. <i>Critical Reviews in Biotechnology</i> , 2017, 37, 1062-1076.	5.1	423
72	±-Sulfur Crystals as a Visible-Light-Active Photocatalyst. <i>Journal of the American Chemical Society</i> , 2012, 134, 9070-9073.	6.6	422

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73	Ligand-assisted cation-exchange engineering for high-efficiency colloidal Cs <sub>1-x</sub> F <sub>x</sub> PbI <sub>3</sub> quantum dot solar cells with reduced phase segregation. <i>Nature Energy</i> , 2020, 5, 79-88.	19.8	412
74	Nanosized anatase TiO <sub>2</sub> single crystals for enhanced photocatalytic activity. <i>Chemical Communications</i> , 2010, 46, 755-757.	2.2	403
75	Facile Hydrothermal Synthesis of Z-Scheme Bi <sub>2</sub> Fe <sub>4</sub> O <sub>9</sub> /Bi <sub>2</sub> WO <sub>6</sub> Heterojunction Photocatalyst with Enhanced Visible Light Photocatalytic Activity. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 18824-18836.	4.0	397
76	The global growth of graphene. <i>Nature Nanotechnology</i> , 2014, 9, 726-730.	15.6	391
77	Carbon Nanotubes and Related Nanomaterials: Critical Advances and Challenges for Synthesis toward Mainstream Commercial Applications. <i>ACS Nano</i> , 2018, 12, 11756-11784.	7.3	388
78	A red anatase TiO <sub>2</sub> photocatalyst for solar energy conversion. <i>Energy and Environmental Science</i> , 2012, 5, 9603.	15.6	379
79	Cd mesoporous ZnS core-shell particles for efficient and stable photocatalytic hydrogen evolution under visible light. <i>Energy and Environmental Science</i> , 2014, 7, 1895.	15.6	379
80	Enhanced Photoactivity of Oxygen-Deficient Anatase TiO <sub>2</sub> Sheets with Dominant {001} Facets. <i>Journal of Physical Chemistry C</i> , 2009, 113, 21784-21788.	1.5	376
81	Air-stable and freestanding lithium alloy/graphene foil as an alternative to lithium metal anodes. <i>Nature Nanotechnology</i> , 2017, 12, 993-999.	15.6	376
82	Nitrogen-Doped Carbon Monolith for Alkaline Supercapacitors and Understanding Nitrogen-Induced Redox Transitions. <i>Chemistry - A European Journal</i> , 2012, 18, 5345-5351.	1.7	358
83	Crystal facet-dependent photocatalytic oxidation and reduction reactivity of monoclinic WO <sub>3</sub> for solar energy conversion. <i>Journal of Materials Chemistry</i> , 2012, 22, 6746.	6.7	356
84	Two-Dimensional Materials for Thermal Management Applications. <i>Joule</i> , 2018, 2, 442-463.	11.7	353
85	Overview of the synthesis of MXenes and other ultrathin 2D transition metal carbides and nitrides. <i>Current Opinion in Solid State and Materials Science</i> , 2019, 23, 149-163.	5.6	353
86	25th Anniversary Article: Carbon Nanotube and Graphene-Based Transparent Conductive Films for Optoelectronic Devices. <i>Advanced Materials</i> , 2014, 26, 1958-1991.	11.1	350
87	Ultra-thick graphene bulk supercapacitor electrodes for compact energy storage. <i>Energy and Environmental Science</i> , 2016, 9, 3135-3142.	15.6	347
88	Understanding the interactions between lithium polysulfides and N-doped graphene using density functional theory calculations. <i>Nano Energy</i> , 2016, 25, 203-210.	8.2	347
89	The Regulating Role of Carbon Nanotubes and Graphene in Lithium-Ion and Lithium-Sulfur Batteries. <i>Advanced Materials</i> , 2019, 31, e1800863.	11.1	339
90	Large-area synthesis of high-quality and uniform monolayer WS <sub>2</sub> on reusable Au foils. <i>Nature Communications</i> , 2015, 6, 8569.	5.8	336

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91	Scalable Clean Exfoliation of High-Quality Few-Layer Black Phosphorus for a Flexible Lithium Ion Battery. <i>Advanced Materials</i> , 2016, 28, 510-517.	11.1	336
92	Carbon-Based Fibers for Advanced Electrochemical Energy Storage Devices. <i>Chemical Reviews</i> , 2020, 120, 2811-2878.	23.0	334
93	Flexible layer-structured Bi <sub>2</sub> Te <sub>3</sub> thermoelectric on a carbon nanotube scaffold. <i>Nature Materials</i> , 2019, 18, 62-68.	13.3	316
94	One-Step Device Fabrication of Phosphorene and Graphene Interdigital Micro-Supercapacitors with High Energy Density. <i>ACS Nano</i> , 2017, 11, 7284-7292.	7.3	312
95	Megamerger in photocatalytic field: 2D g-C <sub>3</sub> N <sub>4</sub> nanosheets serve as support of 0D nanomaterials for improving photocatalytic performance. <i>Applied Catalysis B: Environmental</i> , 2019, 240, 153-173.	10.8	310
96	Superhigh Electromagnetic Interference Shielding of Ultrathin Aligned Pristine Graphene Nanosheets Film. <i>Advanced Materials</i> , 2020, 32, e1907411.	11.1	310
97	Vertically Aligned Carbon Nanotubes Grown on Graphene Paper as Electrodes in Lithium-Ion Batteries and Dye-Sensitized Solar Cells. <i>Advanced Energy Materials</i> , 2011, 1, 486-490.	10.2	309
98	Tensile strength of single-walled carbon nanotubes directly measured from their macroscopic ropes. <i>Applied Physics Letters</i> , 2000, 77, 3161-3163.	1.5	306
99	Nanosized Li <sub>4</sub> Ti <sub>5</sub> O <sub>12</sub> /graphene hybrid materials with low polarization for high rate lithium ion batteries. <i>Journal of Power Sources</i> , 2011, 196, 8610-8617.	4.0	306
100	Two-Dimensional MoS <sub>2</sub> Confined Co(OH) <sub>2</sub> Electrocatalysts for Hydrogen Evolution in Alkaline Electrolytes. <i>ACS Nano</i> , 2018, 12, 4565-4573.	7.3	302
101	Vertically Aligned p-Type Single-Crystalline GaN Nanorod Arrays on n-Type Si for Heterojunction Photovoltaic Cells. <i>Nano Letters</i> , 2008, 8, 4191-4195.	4.5	298
102	Recent advances in graphene-based planar micro-supercapacitors for on-chip energy storage. <i>National Science Review</i> , 2014, 1, 277-292.	4.6	298
103	Self-assembled CdS/Au/ZnO heterostructure induced by surface polar charges for efficient photocatalytic hydrogen evolution. <i>Journal of Materials Chemistry A</i> , 2013, 1, 2773.	5.2	294
104	Phosphorene as a Polysulfide Immobilizer and Catalyst in High-Performance Lithium-Sulfur Batteries. <i>Advanced Materials</i> , 2017, 29, 1602734.	11.1	289
105	Fabrication of novel magnetic MnFe <sub>2</sub> O <sub>4</sub> /bio-char composite and heterogeneous photo-Fenton degradation of tetracycline in near neutral pH. <i>Chemosphere</i> , 2019, 224, 910-921.	4.2	287
106	Band-to-Band Visible-Light Photon Excitation and Photoactivity Induced by Homogeneous Nitrogen Doping in Layered Titanates. <i>Chemistry of Materials</i> , 2009, 21, 1266-1274.	3.2	284
107	The Rechargeable Aluminum Battery: Opportunities and Challenges. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 11978-11996.	7.2	276
108	A microporous-mesoporous carbon with graphitic structure for a high-rate stable sulfur cathode in carbonate solvent-based Li-S batteries. <i>Physical Chemistry Chemical Physics</i> , 2012, 14, 8703.	1.3	273



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109	A Review of Carbon Nanotube and Graphene-Based Flexible Thin-Film Transistors. <i>Small</i> , 2013, 9, 1188-1205.	5.2	268
110	Graphitic Carbon Nitride-Based Heterojunction Photoactive Nanocomposites: Applications and Mechanism Insight. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 21035-21055.	4.0	266
111	Artificial Z-scheme photocatalytic system: What have been done and where to go?. <i>Coordination Chemistry Reviews</i> , 2019, 385, 44-80.	9.5	265
112	A 3D bi-functional porous N-doped carbon microtube sponge electrocatalyst for oxygen reduction and oxygen evolution reactions. <i>Energy and Environmental Science</i> , 2016, 9, 3079-3084.	15.6	260
113	Graphene-based materials for high-voltage and high-energy asymmetric supercapacitors. <i>Energy Storage Materials</i> , 2017, 6, 70-97.	9.5	260
114	Metal-Catalyst-Free Growth of Single-Walled Carbon Nanotubes. <i>Journal of the American Chemical Society</i> , 2009, 131, 2082-2083.	6.6	258
115	Key Aspects of Lithium Metal Anodes for Lithium Metal Batteries. <i>Small</i> , 2019, 15, e1900687.	5.2	253
116	Semiconductor-based photocatalysts for photocatalytic and photoelectrochemical water splitting: will we stop with photocorrosion?. <i>Journal of Materials Chemistry A</i> , 2020, 8, 2286-2322.	5.2	251
117	In Situ Grown Ag <sub>12</sub> O <sub>17</sub> Cl <sub>2</sub> Heterojunction Photocatalysts for Visible Light Degradation of Sulfamethazine: Efficiency, Pathway, and Mechanism. <i>ACS Sustainable Chemistry and Engineering</i> , 2018, 6, 4174-4184.	3.2	249
118	Stabilized Nanoscale Zerovalent Iron Mediated Cadmium Accumulation and Oxidative Damage of <i>Boehmeria nivea</i> (L.) Gaudich Cultivated in Cadmium Contaminated Sediments. <i>Environmental Science &amp; Technology</i> , 2017, 51, 11308-11316.	4.6	248
119	Toward More Reliable Lithium-Sulfur Batteries: An All-Graphene Cathode Structure. <i>ACS Nano</i> , 2016, 10, 8676-8682.	7.3	246
120	Metal-Organic Frameworks (MOFs)-Derived Nitrogen-Doped Porous Carbon Anchored on Graphene with Multifunctional Effects for Lithium-Sulfur Batteries. <i>Advanced Functional Materials</i> , 2018, 28, 1707592.	7.8	246
121	Homogeneous and Fast Ion Conduction of PEO-Based Solid-State Electrolyte at Low Temperature. <i>Advanced Functional Materials</i> , 2020, 30, 2007172.	7.8	246
122	Tunable Band Gaps and p-Type Transport Properties of Boron-Doped Graphenes by Controllable Ion Doping Using Reactive Microwave Plasma. <i>ACS Nano</i> , 2012, 6, 1970-1978.	7.3	244
123	Strategies towards Low-Cost Dual-Ion Batteries with High Performance. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 3802-3832.	7.2	242
124	Elemental superdoping of graphene and carbon nanotubes. <i>Nature Communications</i> , 2016, 7, 10921.	5.8	238
125	Visible Light Photocatalyst: Iodine-Doped Mesoporous Titania with a Bicrystalline Framework. <i>Journal of Physical Chemistry B</i> , 2006, 110, 20823-20828.	1.2	236
126	Metal/Oxide Interface Nanostructures Generated by Surface Segregation for Electrocatalysis. <i>Nano Letters</i> , 2015, 15, 7704-7710.	4.5	233



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127	An Unusual Strong Visible-Light Absorption Band in Red Anatase TiO <sub>2</sub> Photocatalyst Induced by Atomic Hydrogen-Occupied Oxygen Vacancies. <i>Advanced Materials</i> , 2018, 30, 1704479.	11.1	231
128	Nitrogen-Superdoped 3D Graphene Networks for High-Performance Supercapacitors. <i>Advanced Materials</i> , 2017, 29, 1701677.	11.1	230
129	Stable photocatalytic hydrogen evolution from water over ZnO-CdS core-shell nanorods. <i>International Journal of Hydrogen Energy</i> , 2010, 35, 8199-8205.	3.8	229
130	Mass production and industrial applications of graphene materials. <i>National Science Review</i> , 2018, 5, 90-101.	4.6	222
131	Polarized Raman Study of Single-Wall Semiconducting Carbon Nanotubes. <i>Physical Review Letters</i> , 2000, 85, 2617-2620.	2.9	221
132	Simultaneous Production and Functionalization of Boron Nitride Nanosheets by Sugar-Assisted Mechanochemical Exfoliation. <i>Advanced Materials</i> , 2019, 31, e1804810.	11.1	220
133	Adsorption and capillarity of nitrogen in aggregated multi-walled carbon nanotubes. <i>Chemical Physics Letters</i> , 2001, 345, 18-24.	1.2	213
134	Edge-controlled growth and kinetics of single-crystal graphene domains by chemical vapor deposition. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 20386-20391.	3.3	213
135	Engineering <i>d</i> <sub>sp</sub> Orbital Hybridization in Single-Atom Metal-Embedded Three-Dimensional Electrodes for Li-S Batteries. <i>Advanced Materials</i> , 2021, 33, e2105947.	11.1	209
136	Repeated and Controlled Growth of Monolayer, Bilayer and Few-Layer Hexagonal Boron Nitride on Pt Foils. <i>ACS Nano</i> , 2013, 7, 5199-5206.	7.3	206
137	Hydrogen adsorption behavior of graphene above critical temperature. <i>International Journal of Hydrogen Energy</i> , 2009, 34, 2329-2332.	3.8	203
138	A Sulfur-Rich Copolymer@CNT Hybrid Cathode with Dual-Confinement of Polysulfides for High-Performance Lithium-Sulfur Batteries. <i>Advanced Materials</i> , 2017, 29, 1603835.	11.1	202
139	Intercalated architecture of MA2Z4 family layered van der Waals materials with emerging topological, magnetic and superconducting properties. <i>Nature Communications</i> , 2021, 12, 2361.	5.8	199
140	Graphene: a promising 2D material for electrochemical energy storage. <i>Science Bulletin</i> , 2017, 62, 724-740.	4.3	198
141	A flexible ultrasensitive optoelectronic sensor array for neuromorphic vision systems. <i>Nature Communications</i> , 2021, 12, 1798.	5.8	198
142	Synthesis of anatase TiO <sub>2</sub> rods with dominant reactive {010} facets for the photoreduction of CO <sub>2</sub> to CH <sub>4</sub> and use in dye-sensitized solar cells. <i>Chemical Communications</i> , 2011, 47, 8361.	2.2	196
143	Comparison of the rate capability of nanostructured amorphous and anatase TiO <sub>2</sub> for lithium insertion using anodic TiO <sub>2</sub> nanotube arrays. <i>Nanotechnology</i> , 2009, 20, 225701.	1.3	194
144	Novel Boron Nitride Hollow Nanoribbons. <i>ACS Nano</i> , 2008, 2, 2183-2191.	7.3	192

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145	Switching the selectivity of the photoreduction reaction of carbon dioxide by controlling the band structure of a g-C <sub>3</sub> N <sub>4</sub> photocatalyst. <i>Chemical Communications</i> , 2014, 50, 10837.	2.2	192
146	Ultrahigh-voltage integrated micro-supercapacitors with designable shapes and superior flexibility. <i>Energy and Environmental Science</i> , 2019, 12, 1534-1541.	15.6	192
147	ZnO@CdS@Cd Heterostructure for Effective Photocatalytic Hydrogen Generation. <i>Advanced Energy Materials</i> , 2012, 2, 42-46.	10.2	191
148	Hydrogen storage in carbon nanotubes revisited. <i>Carbon</i> , 2010, 48, 452-455.	5.4	190
149	Carbon-Based Metal-Free Catalysts for Energy Storage and Environmental Remediation. <i>Advanced Materials</i> , 2019, 31, e1806128.	11.1	188
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