Hui-Ming Cheng

List of Publications by Year
in descending order

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790 papers	131,809 citations	107 169 h-index	145 340 g-index
826 all docs	826 docs citations	826 times ranked	93515 citing authors

#	Article	IF	Citations
1	Homologous gradient heterostructureâ€based artificial synapses for neuromorphic computation. InformaÅnÃ-MateriÃ¡ly, 2023, 5, .	8.5	6
2	Flexible organic photodetectors and their use in wearable systems. , 2022, 125, 103145.		13
3	Iron-doped NiS2 microcrystals with exposed {0 0 1} facets for electrocatalytic water oxidation. Journal of Colloid and Interface Science, 2022, 608, 599-604.	5.0	15
4	Response of microorganisms to phosphate nanoparticles in Pb polluted sediment: Implications of Pb bioavailability, enzyme activities and bacterial community. Chemosphere, 2022, 286, 131643.	4.2	15
5	Densification of MXene films by sequential bridging. National Science Review, 2022, 9, nwab195.	4.6	0
6	Grapheneâ€Supported Atomically Dispersed Metals as Bifunctional Catalysts for Nextâ€Generation Batteries Based on Conversion Reactions. Advanced Materials, 2022, 34, e2105812.	11.1	106
7	Structure-related electrochemical behavior of sulfur-rich polymer cathode with solid-solid conversion in lithium-sulfur batteries. Energy Storage Materials, 2022, 45, 1144-1152.	9.5	30
8	Synthesis of Carbon Nanotubes by Floating Catalyst Chemical Vapor Deposition and Their Applications. Advanced Functional Materials, 2022, 32, 2108541.	7.8	63
9	Challenges and development of lithium-ion batteries for low temperature environments. ETransportation, 2022, 11, 100145.	6.8	108
10	Construction of sandwich-structured C/C-SiC and C/C-SiC-ZrC composites with good mechanical and anti-ablation properties. Journal of the European Ceramic Society, 2022, 42, 1219-1226.	2.8	31
11	Lignocellulosic biomass derived N-doped and CoO-loaded carbocatalyst used as highly efficient peroxymonosulfate activator for ciprofloxacin degradation. Journal of Colloid and Interface Science, 2022, 610, 221-233.	5.0	17
12	Constructing a Stable Interface Layer by Tailoring Solvation Chemistry in Carbonate Electrolytes for Highâ€Performance Lithiumâ€Metal Batteries. Advanced Materials, 2022, 34, e2108400.	11.1	144
13	Kinetics-Controlled Growth of Metallic Single-Wall Carbon Nanotubes from CoRe_x Nanoparticles. ACS Nano, 2022, 16, 232-240.	7.3	13
14	Uniform polypyrrole electrodeposition triggered by phytic acid-guided interface engineering for high energy density flexible supercapacitor. Journal of Colloid and Interface Science, 2022, 611, 356-365.	5.0	24
15	Metallic Co and crystalline Co-Mo oxides supported on graphite felt for bifunctional electrocatalytic hydrogen evolution and urea oxidation. Journal of Colloid and Interface Science, 2022, 612, 413-423.	5.0	30
16	An ultrathin and highly efficient interlayer for lithiumâ€“sulfur batteries with high sulfur loading and lean electrolyte. Journal of Materials Chemistry A, 2022, 10, 7653-7659.	5.2	33
17	2D Functional Minerals as Sustainable Materials for Magnetoâ€Optics. Advanced Materials, 2022, 34, e2110464.	11.1	26
18	3D Printed Templateâ€Directed Assembly of Multiscale Graphene Structures. Advanced Functional Materials, 2022, 32, .	7.8	18

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19	Electrochemical Deposition of a Singleâ€Crystalline Nanorod Polycyclic Aromatic Hydrocarbon Film with Efficient Charge and Exciton Transport. Angewandte Chemie, 2022, 134, .	1.6	3
20	Ultrastable Interfacial Contacts Enabling Unimpeded Charge Transfer and Ion Diffusion in Flexible Lithiumâ€Ion Batteries. Advanced Science, 2022, 9, e2105419.	5.6	12
21	Effect of C/SiC Volume Ratios on Mechanical and Oxidation Behaviors of Cf/Câ€“SiC Composites Fabricated by Chemical Vapor Infiltration Technique. Acta Metallurgica Sinica (English Letters), 2022, 35, 801-811.	1.5	3
22	Designing Electrophilic and Nucleophilic Dual Centers in the ReS₂ Plane toward Efficient Bifunctional Catalysts for Li-CO₂ Batteries. Journal of the American Chemical Society, 2022, 144, 3106-3116.	6.6	93
23	Electrochemical Deposition of a Singleâ€Crystalline Nanorod Polycyclic Aromatic Hydrocarbon Film with Efficient Charge and Exciton Transport. Angewandte Chemie - International Edition, 2022, 61, .	7.2	14
24	Kinetic regulation of MXene with water-in-LiCl electrolyte for high-voltage micro-supercapacitors. National Science Review, 2022, 9, .	4.6	39
25	Carrier Trapping in Wrinkled 2D Monolayer MoS₂ for Ultrathin Memory. ACS Nano, 2022, 16, 6309-6316.	7.3	22
26	Patterning of Waferâ€Scale MXene Films for Highâ€Performance Image Sensor Arrays. Advanced Materials, 2022, 34, e2201298.	11.1	26
27	Fabrication of Large Aerogel-Like Carbon/Carbon Composites with Excellent Load-Bearing Capacity and Thermal-Insulating Performance at 1800 Â°C. ACS Nano, 2022, 16, 6565-6577.	7.3	45
28	AÂ2D materialâ€“based transparent hydrogel with engineerable interference colours. Nature Communications, 2022, 13, 1212.	5.8	37
29	Enhancing hydrogen peroxide activation of Cu Co layered double hydroxide by compositing with biochar: Performance and mechanism. Science of the Total Environment, 2022, 828, 154188.	3.9	33
30	Accurate structural descriptor enabled screening for nitrogen and oxygen vacancy codoped TiO2 with a large bandgap narrowing. Journal of Materials Science and Technology, 2022, 122, 84-90.	5.6	8
31	Toward an Understanding of the Reversible Li-CO₂ Batteries over Metalâ€“N₄-Functionalized Graphene Electrocatalysts. ACS Nano, 2022, 16, 1523-1532.	7.3	52
32	Fabrication of Largeâ€Area Uniform Nanometerâ€Thick Functional Layers and Their Stacks for Flexible Quantum Dot Lightâ€Emitting Diodes. Small Methods, 2022, 6, e2101030.	4.6	3
33	Electrochemical Capacitors with Confined Redox Electrolytes and Porous Electrodes. Advanced Materials, 2022, 34, e2202380.	11.1	33
34	2D Functional Minerals as Sustainable Materials for Magnetoâ€Optics (Adv. Mater. 16/2022). Advanced Materials, 2022, 34, .	11.1	7
35	A potential link between the structure of iron catalysts and Fenton-like performance: from fundamental understanding to engineering design. Journal of Materials Chemistry A, 2022, 10, 12788-12804.	5.2	15
36	A nonflammable electrolyte for ultrahigh-voltage (4.8 V-class) Li||NCM811 cells with a wide temperature range of 100 Â°C. Energy and Environmental Science, 2022, 15, 2435-2444.	15.6	104

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37	A photon-controlled diode with a new signal-processing behavior. National Science Review, 2022, 9, .	4.6	2
38	Viscous Solvent-Assisted Planetary Ball Milling for the Scalable Production of Large Ultrathin Two-Dimensional Materials. ACS Nano, 2022, 16, 10179-10187.	7.3	26
39	Direct and green repairing of degraded LiCoO2 for reuse in lithium-ion batteries. National Science Review, 2022, 9, .	4.6	85
40	An Interlayer Containing Dissociated LiNO₃ with Fast Release Speed for Stable Lithium Metal Batteries with 400ÂWh kg^{â^'1} Energy Density. Small, 2022, 18, .	5.2	14
41	Atomicâ€Scale Design of Anode Materials for Alkali Metal (Li/Na/K)â€Ion Batteries: Progress and Perspectives. Advanced Energy Materials, 2022, 12, .	10.2	56
42	Tailoring microstructures of carbon fiber reinforced carbon aerogel-like matrix composites by carbonization to modulate their mechanical properties and thermal conductivities. Carbon, 2022, 196, 807-818.	5.4	19
43	Decoupling of ion pairing and ion conduction in ultrahigh-concentration electrolytes enables wide-temperature solid-state batteries. Energy and Environmental Science, 2022, 15, 3379-3387.	15.6	29
44	Engineering Graphene Grain Boundaries for Plasmonic Multi-Excitation and Hotspots. ACS Nano, 2022, 16, 9041-9048.	7.3	7
45	In-situ imaging techniques for advanced battery development. Materials Today, 2022, 57, 279-294.	8.3	16
46	Dual-metal precursors for the universal growth of non-layered 2D transition metal chalcogenides with ordered cation vacancies. Science Bulletin, 2022, 67, 1649-1658.	4.3	10
47	Electronic structure adjustment of lithium sulfide by a single-atom copper catalyst toward high-rate lithium-sulfur batteries. Energy Storage Materials, 2022, 51, 890-899.	9.5	52
48	Preparation of isolated semiconducting single-wall carbon nanotubes by oxygen-assisted floating catalyst chemical vapor deposition. Chemical Engineering Journal, 2022, 450, 137861.	6.6	7
49	Dissolution-precipitation growth of uniform and clean two dimensional transition metal dichalcogenides. National Science Review, 2021, 8, nwaa115.	4.6	42
50	Single-atom catalysts for metal-sulfur batteries: Current progress and future perspectives. Journal of Energy Chemistry, 2021, 54, 452-466.	7.1	63
51	In-situ self-assembly construction of hollow tubular g-C3N4 isotype heterojunction for enhanced visible-light photocatalysis: Experiments and theories. Journal of Hazardous Materials, 2021, 401, 123355.	6.5	157
52	Extremely efficient flexible organic solar cells with a graphene transparent anode: Dependence on number of layers and doping of graphene. Carbon, 2021, 171, 350-358.	5.4	33
53	Six-membered-ring inorganic materials: definition and prospects. National Science Review, 2021, 8, nwaa248.	4.6	14
54	Chemical Vapor Deposition Growth of Two-Dimensional Compound Materials: Controllability, Material Quality, and Growth Mechanism. Accounts of Materials Research, 2021, 2, 36-47.	5.9	111

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55	Structure, Preparation, and Applications of 2D Materialâ€Based Metalâ€“Semiconductor Heterostructures. Small Structures, 2021, 2, 2000093.	6.9	71
56	The application of Zeolitic imidazolate frameworks (ZIFs) and their derivatives based materials for photocatalytic hydrogen evolution and pollutants treatment. Chemical Engineering Journal, 2021, 417, 127914.	6.6	62
57	Surface and interface engineering of two-dimensional bismuth-based photocatalysts for ambient molecule activation. Journal of Materials Chemistry A, 2021, 9, 196-233.	5.2	50
58	Carbon Dotsâ€Decorated Carbonâ€Based Metalâ€Free Catalysts for Electrochemical Energy Storage. Small, 2021, 17, e2002998.	5.2	27
59	Modulating Electronic Structure of Monolayer Transition Metal Dichalcogenides by Substitutional Nbâ€Doping. Advanced Functional Materials, 2021, 31, 2006941.	7.8	54
60	Insights into the deposition chemistry of Li ions in nonaqueous electrolyte for stable Li anodes. Chemical Society Reviews, 2021, 50, 3178-3210.	18.7	126
61	High-performance flexible resistive random access memory devices based on graphene oxidized with a perpendicular oxidation gradient. Nanoscale, 2021, 13, 2448-2455.	2.8	12
62	Efficient Reversible Conversion between MoS₂ and Mo/Na₂S Enabled by Grapheneâ€Supported Single Atom Catalysts. Advanced Materials, 2021, 33, e2007090.	11.1	108
63	Superconductivity and High-Pressure Performance of 2D Mo₂C Crystals. Journal of Physical Chemistry Letters, 2021, 12, 2219-2225.	2.1	3
64	High-throughput screening and machine learning for the efficient growth of high-quality single-wall carbon nanotubes. Nano Research, 2021, 14, 4610-4615.	5.8	11
65	A Durable and Efficient Electrocatalyst for Saline Water Splitting with Current Density Exceeding 2000ÂmAÂcm^{â^'2}. Advanced Functional Materials, 2021, 31, 2010367.	7.8	102
66	A flexible ultrasensitive optoelectronic sensor array for neuromorphic vision systems. Nature Communications, 2021, 12, 1798.	5.8	198
67	Doping Concentration Modulation in Vanadium-Doped Monolayer Molybdenum Disulfide for Synaptic Transistors. ACS Nano, 2021, 15, 7340-7347.	7.3	53
68	Properties and photodetector applications of two-dimensional black arsenic phosphorus and black phosphorus. Science China Information Sciences, 2021, 64, 1.	2.7	35
69	Intercalated architecture of MA2Z4 family layered van der Waals materials with emerging topological, magnetic and superconducting properties. Nature Communications, 2021, 12, 2361.	5.8	199
70	Polymorph Evolution Mechanisms and Regulation Strategies of Lithium Metal Anode under Multiphysical Fields. Chemical Reviews, 2021, 121, 5986-6056.	23.0	165
71	Largely Tunable Magneto-Coloration of Monolayer 2D Materials via Size Tailoring. ACS Nano, 2021, 15, 9445-9452.	7.3	7
72	Fabrication of high-conductivity RGO film at a temperature lower than 1500 ÂºC by electrical current. Journal of Materials Science: Materials in Electronics, 2021, 32, 11727-11736.	1.1	1

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73	Catalystâ€Free Growth of Atomically Thin Bi₂O₂Se Nanoribbons for Highâ€Performance Electronics and Optoelectronics. Advanced Functional Materials, 2021, 31, 2101170.	7.8	23
74	Aligned Carbonâ€Based Electrodes for Fastâ€Charging Batteries: A Review. Small, 2021, 17, e2007676.	5.2	30
75	Engineering the Active Sites of Graphene Catalyst: From CO₂ Activation to Activate Li-CO₂ Batteries. ACS Nano, 2021, 15, 9841-9850.	7.3	71
76	An in-situ solidification strategy to block polysulfides in Lithium-Sulfur batteries. Energy Storage Materials, 2021, 37, 224-232.	9.5	55
77	Ionâ€Dipole Chemistry Drives Rapid Evolution of Li Ions Solvation Sheath in Lowâ€Temperature Li Batteries. Advanced Energy Materials, 2021, 11, 2100935.	10.2	95
78	Breaking the Rateâ€Integrity Dilemma in Largeâ€Area Bubbling Transfer of Graphene by Strain Engineering. Advanced Functional Materials, 2021, 31, 2104228.	7.8	7
79	Highâ€Performance ITOâ€Free Perovskite Solar Cells Enabled by Singleâ€Walled Carbon Nanotube Films. Advanced Functional Materials, 2021, 31, 2104396.	7.8	30
80	Anisotropic moirÃ© optical transitions in twisted monolayer/bilayer phosphorene heterostructures. Nature Communications, 2021, 12, 3947.	5.8	33
81	Independent thickness and lateral size sorting of two-dimensional materials. Science China Materials, 2021, 64, 2739-2746.	3.5	4
82	An ultrasensitive molybdenum-based double-heterojunction phototransistor. Nature Communications, 2021, 12, 4094.	5.8	37
83	Dualâ€Phasic Carbon with Co Single Atoms and Nanoparticles as a Bifunctional Oxygen Electrocatalyst for Rechargeable Znâ€“Air Batteries. Advanced Functional Materials, 2021, 31, 2103360.	7.8	107
84	Lithium Metal Batteries: Ionâ€Dipole Chemistry Drives Rapid Evolution of Li Ions Solvation Sheath in Lowâ€Temperature Li Batteries (Adv. Energy Mater. 28/2021). Advanced Energy Materials, 2021, 11, 2170112.	10.2	14
85	Collective Behavior Induced Highly Sensitive Magneto-Optic Effect in 2D Inorganic Liquid Crystals. Journal of the American Chemical Society, 2021, 143, 12886-12893.	6.6	12
86	High-Performance Lithium Metal Batteries with a Wide Operating Temperature Range in Carbonate Electrolyte by Manipulating Interfacial Chemistry. ACS Energy Letters, 2021, 6, 3170-3179.	8.8	71
87	Realization of a non-markov chain in a single 2D mineral RRAM. Science Bulletin, 2021, 66, 1634-1640.	4.3	15
88	Nanoribbons: Catalystâ€Free Growth of Atomically Thin Bi₂O₂Se Nanoribbons for Highâ€Performance Electronics and Optoelectronics (Adv. Funct. Mater. 31/2021). Advanced Functional Materials, 2021, 31, 2170230.	7.8	2
89	Magnetic Doping Induced Superconductivity-to-Incommensurate Density Waves Transition in a 2D Ultrathin Cr-Doped Mo₂C Crystal. ACS Nano, 2021, 15, 14938-14946.	7.3	7
90	A flexible nickel phthalocyanine resistive random access memory with multi-level data storage capability. Journal of Materials Science and Technology, 2021, 86, 151-157.	5.6	18

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91	Glue-assisted grinding exfoliation of large-size 2D materials for insulating thermal conduction and large-current-density hydrogen evolution. Materials Today, 2021, 51, 145-154.	8.3	58
92	A Scalable Artificial Neuron Based on Ultrathin Two-Dimensional Titanium Oxide. ACS Nano, 2021, 15, 15123-15131.	7.3	25
93	Engineering dâ€p Orbital Hybridization in Singleâ€Atom Metalâ€Embedded Threeâ€Dimensional Electrodes for Liâ€“S Batteries. Advanced Materials, 2021, 33, e2105947.	11.1	209
94	Ultralight carbon fiber felt reinforced monolithic carbon aerogel composites with excellent thermal insulation performance. Carbon, 2021, 183, 525-529.	5.4	52
95	Stress release in high-capacity flexible lithium-ion batteries through nested wrinkle texturing of graphene. Journal of Energy Chemistry, 2021, 61, 243-249.	7.1	10
96	Fluorination-assisted preparation of self-supporting single-atom Fe-N-doped single-wall carbon nanotube film as bifunctional oxygen electrode for rechargeable Zn-Air batteries. Applied Catalysis B: Environmental, 2021, 294, 120239.	10.8	70
97	Hierarchical urchin-like amorphous carbon with Co-adding anchored on nickel foam: A free-standing electrode for advanced asymmetrical supercapacitors and adsorbed Pb (II). Journal of Colloid and Interface Science, 2021, 603, 58-69.	5.0	9
98	A Ta-TaS2 monolith catalyst with robust and metallic interface for superior hydrogen evolution. Nature Communications, 2021, 12, 6051.	5.8	112
99	Semiconductor nanochannels in metallic carbon nanotubes by thermomechanical chirality alteration. Science, 2021, 374, 1616-1620.	6.0	32
100	Strategies towards Lowâ€Cost Dualâ€Ion Batteries with High Performance. Angewandte Chemie - International Edition, 2020, 59, 3802-3832.	7.2	242
101	Transfer-free CVD graphene for highly sensitive glucose sensors. Journal of Materials Science and Technology, 2020, 37, 71-76.	5.6	28
102	Dualâ€Additive Assisted Chemical Vapor Deposition for the Growth of Mnâ€Doped 2D MoS₂ with Tunable Electronic Properties. Small, 2020, 16, e1903181.	5.2	54
103	Mass production of 2D materials by intermediate-assisted grinding exfoliation. National Science Review, 2020, 7, 324-332.	4.6	100
104	A highly active and durable electrocatalyst for large current density hydrogen evolution reaction. Science Bulletin, 2020, 65, 123-130.	4.3	58
105	High-efficiency and stable silicon heterojunction solar cells with lightly fluorinated single-wall carbon nanotube films. Nano Energy, 2020, 69, 104442.	8.2	28
106	Reconstructed transparent conductive layers of fluorine doped tin oxide for greatly weakened hysteresis and improved efficiency of perovskite solar cells. Chemical Communications, 2020, 56, 129-132.	2.2	5
107	Unsaturated Single Atoms on Monolayer Transition Metal Dichalcogenides for Ultrafast Hydrogen Evolution. ACS Nano, 2020, 14, 767-776.	7.3	106
108	Semiconductor-based photocatalysts for photocatalytic and photoelectrochemical water splitting: will we stop with photocorrosion?. Journal of Materials Chemistry A, 2020, 8, 2286-2322.	5.2	251

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109	Intercalation-Induced Conversion Reactions Give High-Capacity Potassium Storage. ACS Nano, 2020, 14, 14026-14035.	7.3	42
110	Porous Graphene Materials: The Chemistry and Promising Applications of Graphene and Porous Graphene Materials (Adv. Funct. Mater. 41/2020). Advanced Functional Materials, 2020, 30, 2070275.	7.8	48
111	Pushing the conductance and transparency limit of monolayer graphene electrodes for flexible organic light-emitting diodes. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 25991-25998.	3.3	28
112	Status and prospects of porous graphene networks for lithiumâ€“sulfur batteries. Materials Horizons, 2020, 7, 2487-2518.	6.4	63
113	Precise Identification of the Active Phase of Cobalt Catalyst for Carbon Nanotube Growth by In Situ Transmission Electron Microscopy. ACS Nano, 2020, 14, 16823-16831.	7.3	51
114	Chemical vapor deposition of layered two-dimensional MoSi ₂ N ₄ materials. Science, 2020, 369, 670-674.	6.0	556
115	Superhigh Uniform Magnetic Cr Substitution in a 2D Mo 2 C Superconductor for a Macroscopicâ€Scale Kondo Effect. Advanced Materials, 2020, 32, 2002825.	11.1	7
116	High-throughput production of cheap mineral-based two-dimensional electrocatalysts for high-current-density hydrogen evolution. Nature Communications, 2020, 11, 3724.	5.8	153
117	Giant magneto-birefringence effect and tuneable colouration of 2D crystal suspensions. Nature Communications, 2020, 11, 3725.	5.8	28
118	Megamerger of MOFs and g-C₃N₄ for energy and environment applications: upgrading the framework stability and performance. Journal of Materials Chemistry A, 2020, 8, 17883-17906.	5.2	48
119	Synthesis of Ultrahighâ€Quality Monolayer Molybdenum Disulfide through In Situ Defect Healing with Thiol Molecules. Small, 2020, 16, e2003357.	5.2	36
120	CdPS ₃ nanosheets-based membrane with high proton conductivity enabled by Cd vacancies. Science, 2020, 370, 596-600.	6.0	120
121	Distinct superconducting properties and hydrostatic pressure effects in 2D Î±- and Î²-Mo2C crystal sheets. NPG Asia Materials, 2020, 12, .	3.8	10
122	Homogeneous and Fast Ion Conduction of PEOâ€Based Solidâ€State Electrolyte at Low Temperature. Advanced Functional Materials, 2020, 30, 2007172.	7.8	246
123	The importance of H2 in the controlled growth of semiconducting single-wall carbon nanotubes. Journal of Materials Science and Technology, 2020, 54, 105-111.	5.6	9
124	Reliable liquid electrolytes for lithium metal batteries. Energy Storage Materials, 2020, 30, 113-129.	9.5	92
125	Critical review of recent progress of flexible perovskite solar cells. Materials Today, 2020, 39, 66-88.	8.3	169
126	Fast lithium ion transport in solid polymer electrolytes from polysulfide-bridged copolymers. Nano Energy, 2020, 75, 104976.	8.2	32

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127	Recent Progress in 3D Printing of 2D Materialâ€Based Macrostructures. Advanced Materials Technologies, 2020, 5, 1901066.	3.0	27
128	A flexible thermoelectric device based on a Bi2Te3-carbon nanotube hybrid. Journal of Materials Science and Technology, 2020, 58, 80-85.	5.6	31
129	Mechanical-electro-magnetic coupling in strained bilayer CrI3. Science China Technological Sciences, 2020, 63, 1265-1271.	2.0	3
130	3D graphene aerogel based photocatalysts: Synthesized, properties, and applications. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2020, 594, 124666.	2.3	24
131	Transport through a network of two-dimensional NbC superconducting crystals connected via weak links. Physical Review B, 2020, 101, .	1.1	2
132	The Chemistry and Promising Applications of Graphene and Porous Graphene Materials. Advanced Functional Materials, 2020, 30, 1909035.	7.8	181
133	Defect and interlayer coupling tuned quasiparticle scattering in 2D disordered Mo2C superconducting microcrystals. Journal Physics D: Applied Physics, 2020, 53, 434002.	1.3	1
134	Structure-related electrochemical performance of organosulfur compounds for lithiumâ€“sulfur batteries. Energy and Environmental Science, 2020, 13, 1076-1095.	15.6	143
135	An Anionâ€Tuned Solid Electrolyte Interphase with Fast Ion Transfer Kinetics for Stable Lithium Anodes. Advanced Energy Materials, 2020, 10, 1903843.	10.2	186
136	Second Time-Scale Synthesis of High-Quality Graphite Films by Quenching for Effective Electromagnetic Interference Shielding. ACS Nano, 2020, 14, 3121-3128.	7.3	57
137	Superhigh Electromagnetic Interference Shielding of Ultrathin Aligned Pristine Graphene Nanosheets Film. Advanced Materials, 2020, 32, e1907411.	11.1	310
138	Synthesis of monolithic carbon aerogels with high mechanical strength via ambient pressure drying without solvent exchange. Journal of Materials Science and Technology, 2020, 50, 66-74.	5.6	39
139	Bi-Cation Electrolyte for a 1.7 V Aqueous Zn Ion Battery. ACS Applied Materials & Interfaces, 2020, 12, 13790-13796.	4.0	78
140	Monolayer carbon-encapsulated Mo-doped Ni nanoparticles anchored on single-wall carbon nanotube film for total water splitting. Applied Catalysis B: Environmental, 2020, 269, 118823.	10.8	46
141	Metal sulfide/MOF-based composites as visible-light-driven photocatalysts for enhanced hydrogen production from water splitting. Coordination Chemistry Reviews, 2020, 409, 213220.	9.5	169
142	Ligand-assisted cation-exchange engineering for high-efficiency colloidal Cs1â^'xFAxPbI3 quantum dot solar cells with reduced phase segregation. Nature Energy, 2020, 5, 79-88.	19.8	412
143	A Flexible Carbon Nanotube Senâ€Memory Device. Advanced Materials, 2020, 32, e1907288.	11.1	48
144	A Nanosheet Array of Cu₂Se Intercalation Compound with Expanded Interlayer Space for Sodium Ion Storage. Advanced Energy Materials, 2020, 10, 2000666.	10.2	67

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145	Sustainable hydrogen production by molybdenum carbide-based efficient photocatalysts: From properties to mechanism. Advances in Colloid and Interface Science, 2020, 279, 102144.	7.0	55
146	An integrated thermoelectric-assisted photoelectrochemical system to boost water splitting. Science Bulletin, 2020, 65, 1163-1169.	4.3	23
147	Vertical Chemical Vapor Deposition Growth of Highly Uniform 2D Transition Metal Dichalcogenides. ACS Nano, 2020, 14, 4646-4653.	7.3	101
148	Lithium Anodes: An Anionâ€Tuned Solid Electrolyte Interphase with Fast Ion Transfer Kinetics for Stable Lithium Anodes (Adv. Energy Mater. 14/2020). Advanced Energy Materials, 2020, 10, 2070063.	10.2	3
149	Carbon-Based Fibers for Advanced Electrochemical Energy Storage Devices. Chemical Reviews, 2020, 120, 2811-2878.	23.0	334
150	Electrochemical process of sulfur in carbon materials from electrode thickness to interlayer. Journal of Energy Chemistry, 2019, 31, 119-124.	7.1	42
151	Hollow Nanostructures for Photocatalysis: Advantages and Challenges. Advanced Materials, 2019, 31, e1801369.	11.1	506
152	The Regulating Role of Carbon Nanotubes and Graphene in Lithiumâ€Ion and Lithiumâ€“Sulfur Batteries. Advanced Materials, 2019, 31, e1800863.	11.1	339
153	High Yield Controlled Synthesis of Nano-Graphene Oxide by Water Electrolytic Oxidation of Glassy Carbon for Metal-Free Catalysis. ACS Nano, 2019, 13, 9482-9490.	7.3	25
154	High-performance single-wall carbon nanotube transparent conductive films. Journal of Materials Science and Technology, 2019, 35, 2447-2462.	5.6	51
155	Oriented outperforms disorder: Thickness-independent mass transport for lithium-sulfur batteries. Carbon, 2019, 154, 90-97.	5.4	12
156	Ultrafast growth of nanocrystalline graphene films by quenching and grain-size-dependent strength and bandgap opening. Nature Communications, 2019, 10, 4854.	5.8	43
157	Tunable In Situ Stress and Spontaneous Microwrinkling of Multiscale Heterostructures. Journal of Physical Chemistry C, 2019, 123, 26041-26046.	1.5	3
158	Allâ€Solidâ€State Planar Sodiumâ€Ion Microcapacitors with Multidirectional Fast Ion Diffusion Pathways. Advanced Science, 2019, 6, 1902147.	5.6	34
159	Bottom-Up Synthesis of 2D Transition Metal Carbides and Nitrides. , 2019, , 89-109.		13
160	Improved Damping and High Strength of Graphene-Coated Nickel Hybrid Foams. ACS Applied Materials & Interfaces, 2019, 11, 42690-42696.	4.0	21
161	Micro-Macroscopic Coupled Electrode Architecture for High-Energy-Density Lithiumâ€“Sulfur Batteries. ACS Applied Energy Materials, 2019, 2, 7393-7402.	2.5	6
162	Perfect proton selectivity in ion transport through two-dimensional crystals. Nature Communications, 2019, 10, 4243.	5.8	60

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163	Production of carbon dots during the liquid phase exfoliation of MoS2 quantum dots. Carbon, 2019, 155, 243-249.	5.4	11
164	Suppressing lithium dendrite formation by slowing its desolvation kinetics. Chemical Communications, 2019, 55, 13211-13214.	2.2	43
165	Roles of multiwall carbon nanotubes in phytoremediation: cadmium uptake and oxidative burst in Boehmeria nivea (L.) Gaudich. Environmental Science: Nano, 2019, 6, 851-862.	2.2	34
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