

Yun Hang Hu

List of Publications by Year in descending order

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243
papers

15,981
citations

11608

70
h-index

19690

117
g-index

247
all docs

247
docs citations

247
times ranked

16019
citing authors

#	ARTICLE	IF	CITATIONS
1	Multiple roles of graphene in electrocatalysts for metal-air batteries. <i>Catalysis Today</i> , 2023, 409, 2-22.	2.2	12
2	Recent progress in design and fabrication of SOFC cathodes for efficient catalytic oxygen reduction. <i>Catalysis Today</i> , 2023, 409, 71-86.	2.2	30
3	Recent advances in single-atom catalysts for CO oxidation. <i>Catalysis Reviews - Science and Engineering</i> , 2022, 64, 491-532.	5.7	35
4	Enhanced photocatalytic CO ₂ hydrogenation with wide-spectrum utilization over black TiO ₂ supported catalyst. <i>Chinese Chemical Letters</i> , 2022, 33, 812-816.	4.8	18
5	Thermo-photo coupled catalytic CO ₂ reforming of methane: A review. <i>Chemical Engineering Journal</i> , 2022, 428, 131222.	6.6	24
6	Hierarchically Porous Polymeric Carbon Nitride as a Volume Photocatalyst for Efficient H ₂ Generation under Strong Irradiation. <i>Solar Rrl</i> , 2022, 6, 2100823.	3.1	27
7	Self-stabilization of Ni/Al ₂ O ₃ Catalyst with a NiAl ₂ O ₄ Isolation Layer in Dry Reforming of Methane. <i>Catalysis Letters</i> , 2022, 152, 2852-2859.	1.4	6
8	Degradation issues and stabilization strategies of protonic ceramic electrolysis cells for steam electrolysis. <i>Energy Science and Engineering</i> , 2022, 10, 1706-1725.	1.9	23
9	Optimal preparation of molybdenum phosphide cocatalyst for efficient dye-sensitized photocatalytic hydrogen evolution. <i>International Journal of Hydrogen Energy</i> , 2022, 47, 3814-3823.	3.8	6
10	Fund industrial fellowships for faculty to benefit graduates. <i>Nature</i> , 2022, 601, 508-508.	13.7	0
11	Design, synthesis, and performance of adsorbents for heavy metal removal from wastewater: a review. <i>Journal of Materials Chemistry A</i> , 2022, 10, 1047-1085.	5.2	68
12	Thin-water-film-enhanced TiO ₂ -based catalyst for CO ₂ hydrogenation to formic acid. <i>Chemical Communications</i> , 2022, 58, 787-790.	2.2	5
13	Hierarchically Porous Polymeric Carbon Nitride as a Volume Photocatalyst for Efficient H ₂ Generation under Strong Irradiation. <i>Solar Rrl</i> , 2022, 6, .	3.1	3
14	Strategies for improving photoelectrochemical water splitting performance of Si ⁻ -based electrodes. <i>Energy Science and Engineering</i> , 2022, 10, 1526-1543.	1.9	29
15	Confined synthesis of condensed π-conjugation C-PAN/MS-CN nanotubes for efficient photocatalytic H ₂ evolution. <i>Chemical Communications</i> , 2022, 58, 4352-4355.	2.2	9
16	Ultra-stable Molecular Interface SiW ₁₂ O ₄₂ /TiO ₂ Catalyst Derived from Keggin-type Polyoxometalates for Photocatalytic Conversion of Methane to Oxygenates. <i>ChemCatChem</i> , 2022, 14, .	1.8	7
17	Pre-intercalation of phosphate into Ni(OH) ₂ /NiOOH for efficient and stable electrocatalytic oxygen evolution reaction. <i>Journal of Catalysis</i> , 2022, 410, 22-30.	3.1	26
18	Thermo-photo catalysis: a whole greater than the sum of its parts. <i>Chemical Society Reviews</i> , 2022, 51, 3609-3647.	18.7	95

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19	<i>Energy Science & Engineering</i>: 10 Years of excellence. Energy Science and Engineering, 2022, 10, 1570-1571.	1.9	0
20	Tuning metal-support interaction of NiCu/graphene cocatalysts for enhanced dye-sensitized photocatalytic H ₂ evolution. Applied Surface Science, 2022, 593, 153459.	3.1	14
21	New chemistry for one-step synthesis of tunable 3D hydrogenated graphene. Journal of Physics and Chemistry of Solids, 2022, 167, 110772.	1.9	2
22	Trash to treasure: Fallen leaves as separators for supercapacitors. International Journal of Energy Research, 2022, 46, 14517-14525.	2.2	4
23	Theoretical and Experimental Studies of Gallate Melilite Electrides from Topotactic Reduction of Interstitial Oxide Ion Conductors. Inorganic Chemistry, 2022, 61, 10915-10924.	1.9	2
24	Recent advances in graphene-based materials for fuel cell applications. Energy Science and Engineering, 2021, 9, 958-983.	1.9	93
25	Excellent photocatalytic degradation of tetracycline over black anatase-TiO ₂ under visible light. Chemical Engineering Journal, 2021, 406, 126747.	6.6	184
26	Cyclo[18]carbon as an ultra-elastic molecular O-ring with unique mechanical properties. Carbon, 2021, 171, 96-103.	5.4	40
27	A comprehensive review on catalysts for electrocatalytic and photoelectrocatalytic degradation of antibiotics. Chemical Engineering Journal, 2021, 409, 127739.	6.6	119
28	Structurally and chemically engineered graphene for capacitive deionization. Journal of Materials Chemistry A, 2021, 9, 1429-1455.	5.2	45
29	Strategies of tuning catalysts for efficient photodegradation of antibiotics in water environments: a review. Journal of Materials Chemistry A, 2021, 9, 2592-2611.	5.2	72
30	Direct conversion of methane to oxygenates catalyzed by iron(III) chloride in water at near ambient temperature. International Journal of Energy Research, 2021, 45, 2581-2592.	2.2	7
31	1T Phase Transition Metal Dichalcogenides for Hydrogen Evolution Reaction. Electrochemical Energy Reviews, 2021, 4, 194-218.	13.1	65
32	Highly selective photocatalytic conversion of methane to liquid oxygenates over silicomolybdc-acid/TiO ₂ under mild conditions. Journal of Materials Chemistry A, 2021, 9, 1713-1719.	5.2	33
33	1T/1T'-dominated WSe ₂ with stabilized oxygen dopants for efficient and durable hydrogen evolution. Journal of Materials Chemistry A, 2021, 9, 13490-13495.	5.2	7
34	Unprecedentedly high efficiency for photocatalytic conversion of methane to methanol over Au-Pd/TiO ₂ - what is the role of each component in the system?. Journal of Materials Chemistry A, 2021, 9, 10796-10802.	5.2	37
35	Highly efficient visible-light photocatalytic ethane oxidation into ethyl hydroperoxide as a radical reservoir. Chemical Science, 2021, 12, 5825-5833.	3.7	12
36	CePmO ₁₂ O ₄₀ / TiO ₂ catalysts for photocatalytic oxidation of methane to value-added organic oxygenates. International Journal of Energy Research, 2021, 45, 12996-13006.	2.2	3

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37	Confinement Capillarity of Thin Coating for Boosting Solar-Driven Water Evaporation. <i>Advanced Functional Materials</i> , 2021, 31, 2011114.	7.8	131
38	Progress in proton-conducting oxides as electrolytes for low-temperature solid oxide fuel cells: From materials to devices. <i>Energy Science and Engineering</i> , 2021, 9, 984-1011.	1.9	93
39	Facile Hydrothermal Synthesis of EAB-type Zeolite under Static Synthesis Conditions. <i>Crystal Research and Technology</i> , 2021, 56, 2000163.	0.6	2
40	Open the door to the atomic world by single-molecule atomic force microscopy. <i>Matter</i> , 2021, 4, 1189-1223.	5.0	11
41	Synthesis of Ni ₂ P/Ni ₁₂ P ₅ composite for a highly efficient hydrogen production from formaldehyde solution. <i>Reaction Kinetics, Mechanisms and Catalysis</i> , 2021, 133, 229-243.	0.8	2
42	Bimetallic cocatalysts for photocatalytic hydrogen production from water. <i>Chemical Engineering Journal</i> , 2021, 409, 128250.	6.6	52
43	Surface-copper-doped WO ₃ photoanode for photoelectrochemical water splitting. <i>Applied Physics Letters</i> , 2021, 118, 223903.	1.5	3
44	140 years of excellence from the society of chemical industry (SCI) promoting innovation in chemical industries. <i>Energy Science and Engineering</i> , 2021, 9, 920-920.	1.9	0
45	A unique black TiO ₂ created from CO-induced oxidation of defect-rich TiO ₂ . <i>Journal of Physics and Chemistry of Solids</i> , 2021, 154, 110053.	1.9	3
46	Distinct Pathways in Visible-Light Driven Thermo-Photo Catalytic Methane Conversion. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 7459-7465.	2.1	20
47	One-Step Chemical Vapor Deposition Synthesis of Hierarchical Ni and N Co-Doped Carbon Nanosheet/Nanotube Hybrids for Efficient Electrochemical CO ₂ Reduction at Commercially Viable Current Densities. <i>ACS Catalysis</i> , 2021, 11, 10333-10344.	5.5	32
48	Boron-Doped and Carbon-Controlled Porous Si/C Anode for High-Performance Lithium-Ion Batteries. <i>ACS Applied Energy Materials</i> , 2021, 4, 8488-8495.	2.5	19
49	Photocatalytic conversion of carbon monoxide: from pollutant removal to fuel production. <i>Applied Catalysis B: Environmental</i> , 2021, 295, 120312.	10.8	22
50	Steam reforming of methane: Current states of catalyst design and process upgrading. <i>Renewable and Sustainable Energy Reviews</i> , 2021, 149, 111330.	8.2	120
51	Bifunctional electrocatalysts for oxygen reduction and oxygen evolution: a theoretical study on 2D metallic WO ₂ -supported single atom (Fe, Co, or Ni) catalysts. <i>Physical Chemistry Chemical Physics</i> , 2021, 23, 13687-13695.	1.3	11
52	Metal-free surface-microporous graphene electrocatalysts from CO ₂ for rechargeable all-solid-state zinc-air batteries. <i>Journal of Materials Chemistry A</i> , 2021, 9, 10081-10087.	5.2	10
53	A simple approach making acetylene black electrocatalytically active for flexible rechargeable zinc-air batteries. <i>Journal of Materials Chemistry A</i> , 2021, 9, 11145-11150.	5.2	7
54	Catalysts for CO ₂ reforming of CH ₄ : a review. <i>Journal of Materials Chemistry A</i> , 2021, 9, 12495-12520.	5.2	93

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55	3D Graphene Materials from the Reduction of CO ₂ . <i>Accounts of Materials Research</i> , 2021, 2, 48-58.	5.9	27
56	Core-shell structured TiO ₂ as highly efficient visible light photocatalyst for dye degradation. <i>Catalysis Today</i> , 2020, 341, 90-95.	2.2	51
57	In-situ FTIR-DRS investigation on shallow trap state of Cu-doped TiO ₂ photocatalyst. <i>Catalysis Today</i> , 2020, 341, 21-25.	2.2	12
58	Microfactories for Intracellular Locally Generated Hydrogen Therapy: Advanced Materials, Challenges, and Opportunities. <i>ChemPlusChem</i> , 2020, 85, 57-67.	1.3	4
59	Visible light photocatalytic degradation of tetracycline over TiO ₂ . <i>Chemical Engineering Journal</i> , 2020, 382, 122842.	6.6	367
60	Photocatalytic conversion of ethane: status and perspective. <i>International Journal of Energy Research</i> , 2020, 44, 708-717.	2.2	4
61	Progress in low-temperature solid oxide fuel cells with hydrocarbon fuels. <i>Chemical Engineering Journal</i> , 2020, 402, 126235.	6.6	105
62	A new concept: Volume photocatalysis for efficient H ₂ generation ___ Using low polymeric carbon nitride as an example. <i>Applied Catalysis B: Environmental</i> , 2020, 279, 119379.	10.8	104
63	S-Vacancy induced indirect-to-direct band gap transition in multilayer MoS ₂ . <i>Physical Chemistry Chemical Physics</i> , 2020, 22, 26005-26014.	1.3	18
64	Near Infrared Light-Driven Photoelectrocatalytic Water Splitting over P-Doped g-C ₃ N ₄ . <i>ACS Applied Energy Materials</i> , 2020, 3, 11223-11230.	2.5	29
65	Pore-Edge Tailoring of Single-Atom Iron-Nitrogen Sites on Graphene for Enhanced CO ₂ Reduction. <i>ACS Catalysis</i> , 2020, 10, 10803-10811.	5.5	140
66	g-C ₃ N ₄ -based photoelectrodes for photoelectrochemical water splitting: a review. <i>Journal of Materials Chemistry A</i> , 2020, 8, 21474-21502.	5.2	111
67	3D Graphene Materials: From Understanding to Design and Synthesis Control. <i>Chemical Reviews</i> , 2020, 120, 10336-10453.	23.0	319
68	Efficient Ni(OH) ₂ /WO ₃ Photoanode for Photoelectrocatalytic Water Splitting at Low Bias. <i>Journal of Physical Chemistry C</i> , 2020, 124, 19447-19456.	1.5	13
69	Facile synthesis of Co ₂ (OH) ₃ Cl/cobalt carbide/reduced graphene oxide composites for enhanced dye-sensitized photocatalytic H ₂ evolution. <i>Sustainable Energy and Fuels</i> , 2020, 4, 6181-6187.	2.5	22
70	Highly Efficient Nickel, Iron, and Nitrogen Codoped Carbon Catalysts Derived from Industrial Waste Petroleum Coke for Electrochemical CO ₂ Reduction. <i>ACS Sustainable Chemistry and Engineering</i> , 2020, 8, 8840-8847.	3.2	26
71	The stability of a graphene oxide (GO) nanofiltration (NF) membrane in an aqueous environment: progress and challenges. <i>Materials Advances</i> , 2020, 1, 554-568.	2.6	43
72	Highly Efficient Dye-Sensitized Solar Cells with Compositing Food Dyes. <i>Industrial & Engineering Chemistry Research</i> , 2020, 59, 10457-10463.	1.8	13

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73	Comment on "Dry reforming of methane by stable Ni-Mo nanocatalysts on single-crystalline MgO". Science, 2020, 368, .	6.0	48
74	Synthesis, properties and potential applications of hydrogenated graphene. Chemical Engineering Journal, 2020, 397, 125408.	6.6	33
75	Transformation of Fe-B@Fe into Fe-B@Ni for efficient photocatalytic hydrogen evolution. Journal of Colloid and Interface Science, 2020, 578, 273-280.	5.0	41
76	Ultra-fast and ultra-long-life Li ion batteries with 3D surface-porous graphene anodes synthesized from CO ₂ . Journal of Materials Chemistry A, 2020, 8, 13385-13392.	5.2	23
77	Surface-microporous graphene for CO ₂ adsorption. Catalysis Today, 2020, 356, 514-518.	2.2	42
78	Thermo-photo catalytic CO ₂ hydrogenation over Ru/TiO ₂ . Journal of Materials Chemistry A, 2020, 8, 7390-7394.	5.2	65
79	Ultrafast, Low-Cost, and Mass Production of High-Quality Graphene. Angewandte Chemie - International Edition, 2020, 59, 9232-9234.	7.2	33
80	Ultraschnelle und kostengünstige Produktion von hochwertigem Graphen. Angewandte Chemie, 2020, 132, 9316-9318.	1.6	1
81	Controlling the Release of Hydrogen Peroxide from Catechol-Based Adhesives Using Silica Nanoparticles. ACS Biomaterials Science and Engineering, 2020, 6, 4502-4511.	2.6	11
82	Highly efficient light-driven methane coupling under ambient conditions based on an integrated design of a photocatalytic system. Green Chemistry, 2020, 22, 4669-4675.	4.6	54
83	Photocatalytic hydrogen production over Rh-loaded TiO ₂ : What is the origin of hydrogen and how to achieve hydrogen production from water?. Applied Catalysis B: Environmental, 2020, 278, 119316.	10.8	73
84	The nonmetal modulation of composition and morphology of g-C ₃ N ₄ -based photocatalysts. Applied Catalysis B: Environmental, 2020, 269, 118828.	10.8	237
85	Ultrahigh-rate lithium-ion batteries with 3D fungus-structured carbon/Cu ₂ O ₄ -H ₂ O electrodes. Journal of Materials Chemistry A, 2020, 8, 3397-3404.	5.2	10
86	Electronic structure modulating for supported Rh catalysts toward CO ₂ methanation. Catalysis Today, 2020, 356, 570-578.	2.2	26
87	The special route toward conversion of methane to methanol on a fluffy metal-free carbon nitride photocatalyst in the presence of H ₂ O. International Journal of Energy Research, 2020, 44, 2740-2753.	2.2	44
88	Ni-B coupled with borate-intercalated Ni(OH) ₂ for efficient and stable electrocatalytic and photocatalytic hydrogen evolution under low alkalinity. Chemical Engineering Journal, 2020, 394, 124928.	6.6	77
89	Phosphorus-based metal-free Z-scheme 2D van der Waals heterostructures for visible-light photocatalytic water splitting: a first-principles study. Physical Chemistry Chemical Physics, 2020, 22, 9250-9256.	1.3	19
90	Atomically Dispersed Iron-Nitrogen Sites on Hierarchically Mesoporous Carbon Nanotube and Graphene Nanoribbon Networks for CO ₂ Reduction. ACS Nano, 2020, 14, 5506-5516.	7.3	125

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91	How Magical Is Magic-Angle Graphene?. Matter, 2020, 2, 1106-1114.	5.0	21
92	Kinetic analysis and thermodynamic simulation of alkali-silica reaction in cementitious materials. Journal of the American Ceramic Society, 2019, 102, 1463-1478.	1.9	13
93	Special column: solar energy conversion. Frontiers in Energy, 2019, 13, 205-206.	1.2	2
94	Mo6S8-based single-metal-atom catalysts for direct methane to methanol conversion. Journal of Chemical Physics, 2019, 151, 024304.	1.2	13
95	Recent Advances in Green, Safe, and Fast Production of Graphene Oxide via Electrochemical Approaches. ACS Sustainable Chemistry and Engineering, 2019, 7, 12671-12681.	3.2	29
96	Synthesis of Semimetallic Tungsten Trioxide for Infrared Light Photoelectrocatalytic Water Splitting. Journal of Physical Chemistry C, 2019, 123, 25833-25843.	1.5	6
97	Thermo-Photo Catalysis for Methanol Synthesis from Syngas. ACS Sustainable Chemistry and Engineering, 2019, 7, 19277-19285.	3.2	27
98	Highly Efficient Thin Zinc Air Batteries. Journal of the Electrochemical Society, 2019, 166, A2879-A2886.	1.3	11
99	Breakthroughs in Designing Commercial-Level Mass-Loading Graphene Electrodes for Electrochemical Double-Layer Capacitors. Matter, 2019, 1, 596-620.	5.0	79
100	Recent progress in visible light photocatalytic conversion of carbon dioxide. Journal of Materials Chemistry A, 2019, 7, 865-887.	5.2	193
101	Novel Binder-Free Three-Dimensional MoS ₂ -Based Electrode for Efficient and Stable Electrocatalytic Hydrogen Evolution. ACS Applied Energy Materials, 2019, 2, 1102-1110.	2.5	42
102	Lithium-Chemical Synthesis of Highly Conductive 3D Mesoporous Graphene for Highly Efficient New Generation Solar Cells. ACS Applied Energy Materials, 2019, 2, 1445-1451.	2.5	11
103	Reduction of CO ₂ with H ₂ S in a simulated deep-sea hydrothermal vent system. Chemical Communications, 2019, 55, 1056-1059.	2.2	35
104	Photo-assisted methanol steam reforming on solid solution of Cu-Zn-Ti oxide. Chemical Engineering Journal, 2019, 375, 121909.	6.6	50
105	Synthesis, structures and applications of single component core-shell structured TiO ₂ : A review. Chemical Engineering Journal, 2019, 375, 122029.	6.6	64
106	Phase role of white TiO ₂ precursor in its reduction to black TiO ₂ . Physics Letters, Section A: General, Atomic and Solid State Physics, 2019, 383, 2978-2982.	0.9	14
107	One-step synthesis of high surface-area honeycomb graphene clusters for highly efficient capacitive deionization. Journal of Physics and Chemistry of Solids, 2019, 134, 64-68.	1.9	14
108	A thermo-photo hybrid process for steam reforming of methane: highly efficient visible light photocatalysis. Chemical Communications, 2019, 55, 7816-7819.	2.2	70

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109	Surface modification of LiNi _{0.5} Co _{0.2} Mn _{0.3} O ₂ cathode materials with Li ₂ O•B ₂ O ₃ •LiBr for lithium-ion batteries. International Journal of Energy Research, 2019, 43, 4644-4651.	2.2	31
110	Enhanced Photocatalytic Production of H ₂ O ₂ by Nafion Coatings on S,N-Codoped Graphene-Quantum-Dots-Modified TiO ₂ . Journal of Physical Chemistry C, 2019, 123, 13693-13701.	1.5	48
111	Applications of 3D Potassium-Ion Pre-Intercalated Graphene for Perovskite and Dye-Sensitized Solar Cells. Industrial & Engineering Chemistry Research, 2019, 58, 8743-8749.	1.8	12
112	Novel WS ₂ -Based 3D Electrode with Protecting Scaffold for Efficient and Stable Hydrogen Evolution. Journal of Physical Chemistry C, 2019, 123, 12142-12148.	1.5	15
113	Insights into the Thermo-Photo Catalytic Production of Hydrogen from Water on a Low-Cost NiO _x -Loaded TiO ₂ Catalyst. ACS Catalysis, 2019, 9, 5047-5056.	5.5	94
114	Advances in catalytic conversion of methane and carbon dioxide to highly valuable products. Energy Science and Engineering, 2019, 7, 4-29.	1.9	110
115	Highly selective production of C5-C12 hydrocarbons over efficient Ru/heteropoly-acid catalysts. Fuel, 2019, 244, 395-402.	3.4	9
116	One-step synthesis of nickel oxide/nickel carbide/graphene composite for efficient dye-sensitized photocatalytic H ₂ evolution. Catalysis Today, 2019, 335, 326-332.	2.2	24
117	Recent progress in photocatalysts for overall water splitting. International Journal of Energy Research, 2019, 43, 1082-1098.	2.2	72
118	3D Channel-structured graphene as efficient electrodes for capacitive deionization. Journal of Colloid and Interface Science, 2019, 538, 420-425.	5.0	53
119	Surface-microporous graphene for high-performance capacitive deionization under ultralow saline concentration. Journal of Physics and Chemistry of Solids, 2019, 125, 135-140.	1.9	22
120	Design and Synthesis of 3D Potassium-Ion Pre-Intercalated Graphene for Supercapacitors. Industrial & Engineering Chemistry Research, 2018, 57, 3610-3616.	1.8	18
121	In situ loading of Ni ₂ P on Cd _{0.5} Zn _{0.5} S with red phosphorus for enhanced visible light photocatalytic H ₂ evolution. Applied Surface Science, 2018, 447, 822-828.	3.1	118
122	Highly conductive porous Na-embedded carbon nanowalls for high-performance capacitive deionization. Journal of Physics and Chemistry of Solids, 2018, 116, 347-352.	1.9	25
123	One-step transformation of highly hydrophobic membranes into superhydrophilic and underwater superoleophobic ones for high-efficiency separation of oil-in-water emulsions. Journal of Materials Chemistry A, 2018, 6, 3391-3396.	5.2	257
124	Low Temperature and Controllable Formation of Oxygen Vacancy SrTiO ₃ by Loading Pt for Enhanced Photocatalytic Hydrogen Evolution. Energy Technology, 2018, 6, 2166-2171.	1.8	20
125	Photocatalytic conversion of CO ₂ over C ₃ N ₄ -based catalysts. Catalysis Today, 2018, 316, 149-154.	2.2	14
126	Fe-B alloy coupled with Fe clusters as an efficient cocatalyst for photocatalytic hydrogen evolution. Chemical Engineering Journal, 2018, 344, 506-513.	6.6	119

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127	Synthesis, stabilization and applications of 2-dimensional 1T metallic MoS ₂ . Journal of Materials Chemistry A, 2018, 6, 23932-23977.	5.2	250
128	New Chemistry for New Material: Highly Dense Mesoporous Carbon Electrode for Supercapacitors with High Areal Capacitance. ACS Applied Materials & Interfaces, 2018, 10, 33162-33169.	4.0	32
129	Porous graphene doped with Fe/N/S and incorporating Fe ₃ O ₄ nanoparticles for efficient oxygen reduction. Catalysis Science and Technology, 2018, 8, 5325-5333.	2.1	33
130	In Situ Photoreduction Synthesis of Fe(0)/Melamine Core-Shell Submicrocubes for Efficient Photocatalytic H ₂ Evolution. ACS Applied Energy Materials, 2018, 1, 2483-2489.	2.5	7
131	Tannic acid encountering ovalbumin: a green and mild strategy for superhydrophilic and underwater superoleophobic modification of various hydrophobic membranes for oil/water separation. Journal of Materials Chemistry A, 2018, 6, 13959-13967.	5.2	107
132	Highly selective photocatalytic production of H ₂ O ₂ on sulfur and nitrogen co-doped graphene quantum dots tuned TiO ₂ . Applied Catalysis B: Environmental, 2018, 239, 475-484.	10.8	178
133	2.21 Supercapacitors. , 2018, , 663-695.		8
134	Synthesis of Mesochannel Carbon Nanowall Material from CO ₂ and Its Excellent Performance for Perovskite Solar Cells. Industrial & Engineering Chemistry Research, 2017, 56, 1803-1809.	1.8	22
135	Excellent performance of highly conductive porous Na-embedded carbon nanowalls for electric double-layer capacitors with a wide operating temperature range. Journal of Materials Chemistry A, 2017, 5, 9090-9096.	5.2	22
136	Template-free synthesis of hollow Ni/reduced graphene oxide composite for efficient H ₂ evolution. Journal of Materials Chemistry A, 2017, 5, 13072-13078.	5.2	61
137	Investigation on H-containing shallow trap of hydrogenated TiO ₂ with <i>in situ</i> Fourier transform infrared diffuse reflection spectroscopy. Nanotechnology, 2017, 28, 304001.	1.3	2
138	Efficient and stable photocatalytic hydrogen evolution from alkaline formaldehyde solution over Cd _{0.5} Zn _{0.5} S solid solution under visible light irradiation. Journal of Photonics for Energy, 2017, 7, 016503.	0.8	4
139	Potassium-chemical synthesis of 3D graphene from CO ₂ and its excellent performance in HTM-free perovskite solar cells. Journal of Materials Chemistry A, 2017, 5, 7749-7752.	5.2	66
140	Highly conductive Na-embedded carbon nanowalls for hole-transport-material-free perovskite solar cells without metal electrodes. Journal of Materials Chemistry A, 2017, 5, 24126-24130.	5.2	24
141	Direct conversion of CO ₂ to meso/macro-porous frameworks of surface-microporous graphene for efficient asymmetrical supercapacitors. Journal of Materials Chemistry A, 2017, 5, 23252-23258.	5.2	27
142	3D graphene from CO ₂ and K as an excellent counter electrode for dye-sensitized solar cells. International Journal of Energy Research, 2017, 41, 2502-2508.	2.2	11
143	Eli Ruckenstein – A Rare Researcher, Teacher, and Mentor par Excellence. Advances in Colloid and Interface Science, 2017, 244, 1-5.	7.0	0
144	An Ideal Electrode Material, 3D Surface-Microporous Graphene for Supercapacitors with Ultrahigh Areal Capacitance. ACS Applied Materials & Interfaces, 2017, 9, 24655-24661.	4.0	83

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145	KOH-assisted microwave post-treatment of activated carbon for efficient symmetrical double-layer capacitors. <i>International Journal of Energy Research</i> , 2017, 41, 728-735.	2.2	27
146	Catalytic role of H ₂ O in degradation of inorganic-organic perovskite (CH ₃) ₃ TlPbO ₃ . <i>Journal of Materials Chemistry A</i> , 2016, 4, 12054-12057.	2.2	33
147	Acetylene adsorption on defected MIL-53. <i>International Journal of Energy Research</i> , 2016, 40, 846-852.	2.2	11
148	Mechanically-induced reverse phase transformation of MoS ₂ from stable 2H to metastable 1T and its memristive behavior. <i>RSC Advances</i> , 2016, 6, 65691-65697.	1.7	63
149	Disordered 3D Multi-layer Graphene Anode Material from CO ₂ for Sodium-ion Batteries. <i>ChemSusChem</i> , 2016, 9, 1397-1402.	3.6	23
150	Immobilization of PDMS-SiO ₂ -TiO ₂ composite for the photocatalytic degradation of dye AO-7. <i>Water Science and Technology</i> , 2016, 74, 1680-1688.	1.2	16
151	Visible-light-driven hydrogen evolution with polyoxometalate as electron relay. <i>Journal of Photonics for Energy</i> , 2016, 6, 046501.	0.8	4
152	Photocatalytic hydrogen evolution and decomposition of glycerol over C _{0.5} Zn _{0.5} S solid solution under visible light irradiation. <i>Environmental Progress and Sustainable Energy</i> , 2016, 35, 141-148.	1.3	19
153	Excellent capacitive deionization performance of meso-carbon microbeads. <i>RSC Advances</i> , 2016, 6, 47285-47291.	1.7	10
154	MoS ₂ as a cocatalyst for photocatalytic hydrogen production from water. <i>Energy Science and Engineering</i> , 2016, 4, 285-304.	1.9	205
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