# Yuan-Fu Chen

List of Publications by Year
in descending order

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|---|---|---|---|
| 167 papers | 11,605 citations | 14614 66 h-index | 32761 100 g-index |
| 167 all docs | 167 docs citations | 167 times ranked | 10014 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Freestanding 1T MoS<sub>2</sub>/graphene heterostructures as a highly efficient electrocatalyst for lithium polysulfides in Liâ€“S batteries. Energy and Environmental Science, 2019, 12, 344-350. | 15.6 | 510 |
| 2 | Vertical Co<sub>9</sub>S<sub>8</sub> hollow nanowall arrays grown on a Celgard separator as a multifunctional polysulfide barrier for high-performance Liâ€“S batteries. Energy and Environmental Science, 2018, 11, 2560-2568. | 15.6 | 486 |
| 3 | Yolkâ€“Shelled C@Fe<sub>3</sub>O<sub>4</sub> Nanoboxes as Efficient Sulfur Hosts for Highâ€Performance Lithiumâ€“Sulfur Batteries. Advanced Materials, 2017, 29, 1702707. | 11.1 | 455 |
| 4 | From Metalâ€“Organic Framework to Li<sub>2</sub>S@Câ€“Coâ€“N Nanoporous Architecture: A High-Capacity Cathode for Lithiumâ€“Sulfur Batteries. ACS Nano, 2016, 10, 10981-10987. | 7.3 | 273 |
| 5 | Three-dimensional CNT/grapheneâ€“sulfur hybrid sponges with high sulfur loading as superior-capacity cathodes for lithiumâ€“sulfur batteries. Journal of Materials Chemistry A, 2015, 3, 18605-18610. | 5.2 | 200 |
| 6 | Three-Dimensional Hierarchical Reduced Graphene Oxide/Tellurium Nanowires: A High-Performance Freestanding Cathode for Liâ€“Te Batteries. ACS Nano, 2016, 10, 8837-8842. | 7.3 | 197 |
| 7 | Metal Sulfideâ€Decorated Carbon Sponge as a Highly Efficient Electrocatalyst and Absorbant for Polysulfide in Highâ€Loading Li<sub>2</sub>S Batteries. Advanced Energy Materials, 2019, 9, 1900584. | 10.2 | 194 |
| 8 | In situ synthesis of hierarchical MoSe<sub>2</sub>â€“CoSe<sub>2</sub> nanotubes as an efficient electrocatalyst for the hydrogen evolution reaction in both acidic and alkaline media. Journal of Materials Chemistry A, 2018, 6, 7842-7850. | 5.2 | 164 |
| 9 | CoSe2 nanoparticles embedded MOF-derived Co-N-C nanoflake arrays as efficient and stable electrocatalyst for hydrogen evolution reaction. Applied Catalysis B: Environmental, 2019, 258, 117996. | 10.8 | 162 |
| 10 | Three-Dimensional Hierarchical Graphene-CNT@Se: A Highly Efficient Freestanding Cathode for Liâ€“Se Batteries. ACS Energy Letters, 2016, 1, 16-20. | 8.8 | 161 |
| 11 | MOF-derived Cobalt Sulfide Grown on 3D Graphene Foam as an Efficient Sulfur Host for Long-Life Lithium-Sulfur Batteries. IScience, 2018, 4, 36-43. | 1.9 | 155 |
| 12 | Self-Assembled Coral-like Hierarchical Architecture Constructed by NiSe<sub>2</sub> Nanocrystals with Comparable Hydrogen-Evolution Performance of Precious Platinum Catalyst. ACS Applied Materials & Interfaces, 2017, 9, 7154-7159. | 4.0 | 153 |
| 13 | Graphene-like WSe2 nanosheets for efficient and stable hydrogen evolution. Journal of Alloys and Compounds, 2017, 691, 698-704. | 2.8 | 149 |
| 14 | Three-Dimensional CNT/Grapheneâ€“Li<sub>2</sub>S Aerogel as Freestanding Cathode for High-Performance Liâ€“S Batteries. ACS Energy Letters, 2016, 1, 820-826. | 8.8 | 148 |
| 15 | 1Tâ€²â€ReS<sub>2</sub> Nanosheets In Situ Grown on Carbon Nanotubes as a Highly Efficient Polysulfide Electrocatalyst for Stable Liâ€“S Batteries. Advanced Energy Materials, 2020, 10, 2001017. | 10.2 | 145 |
| 16 | Tellurium-Impregnated Porous Cobalt-Doped Carbon Polyhedra as Superior Cathodes for Lithiumâ€“Tellurium Batteries. ACS Nano, 2017, 11, 8144-8152. | 7.3 | 137 |
| 17 | Self-assembled CoS2 nanoparticles wrapped by CoS2-quantum-dots-anchored graphene nanosheets as superior-capability anode for lithium-ion batteries. Electrochimica Acta, 2015, 182, 424-429. | 2.6 | 136 |
| 18 | Self-assembled cauliflower-like FeS2 anchored into graphene foam as free-standing anode for high-performance lithium-ion batteries. Carbon, 2017, 114, 111-116. | 5.4 | 128 |

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|---|---|---|---|
| 19 | Three-dimensional hierarchically structured aerogels constructed with layered MoS 2 /graphene nanosheets as free-standing anodes for high-performance lithium ion batteries. Electrochimica Acta, 2016, 215, 12-18. | 2.6 | 126 |
| 20 | Self-assembled pearl-bracelet-like CoSe<sub>2</sub>â€“SnSe<sub>2</sub>/CNT hollow architecture as highly efficient electrocatalysts for hydrogen evolution reaction. Journal of Materials Chemistry A, 2018, 6, 1655-1662. | 5.2 | 125 |
| 21 | Pure thiopheneâ€“sulfur doped reduced graphene oxide: synthesis, structure, and electrical properties. Nanoscale, 2014, 6, 7281. | 2.8 | 124 |
| 22 | The ambipolar transport behavior of WSe2 transistors and its analogue circuits. NPG Asia Materials, 2018, 10, 703-712. | 3.8 | 124 |
| 23 | Hierarchically Porous Wâ€Doped CoP Nanoflake Arrays as Highly Efficient and Stable Electrocatalyst for pHâ€Universal Hydrogen Evolution. Small, 2019, 15, e1902613. | 5.2 | 124 |
| 24 | Interwoven WSe 2 /CNTs hybrid network: A highly efficient and stable electrocatalyst for hydrogen evolution. Electrochemistry Communications, 2016, 72, 74-78. | 2.3 | 123 |
| 25 | Organic carboxylate-based MOFs and derivatives for electrocatalytic water oxidation. Coordination Chemistry Reviews, 2021, 428, 213619. | 9.5 | 122 |
| 26 | Direct impregnation of SeS<sub>2</sub> into a MOF-derived 3D nanoporous Coâ€“Nâ€“C architecture towards superior rechargeable lithium batteries. Journal of Materials Chemistry A, 2018, 6, 10466-10473. | 5.2 | 120 |
| 27 | Nanocrystalline Co<sub>0.85</sub>Se Anchored on Graphene Nanosheets as a Highly Efficient and Stable Electrocatalyst for Hydrogen Evolution Reaction. ACS Applied Materials & Interfaces, 2017, 9, 30703-30710. | 4.0 | 118 |
| 28 | Highly-flexible 3D Li2S/graphene cathode for high-performance lithium sulfur batteries. Journal of Power Sources, 2016, 327, 474-480. | 4.0 | 114 |
| 29 | Few-layered ReS 2 nanosheets grown on carbon nanotubes: A highly efficient anode for high-performance lithium-ion batteries. Chemical Engineering Journal, 2017, 315, 10-17. | 6.6 | 112 |
| 30 | Phosphorus-doped reduced graphene oxide as an electrocatalyst counter electrode in dye-sensitized solar cells. Journal of Power Sources, 2014, 263, 246-251. | 4.0 | 110 |
| 31 | Few-layered WSe2 nanoflowers anchored on graphene nanosheets: a highly efficient and stable electrocatalyst for hydrogen evolution. Electrochimica Acta, 2016, 222, 1293-1299. | 2.6 | 109 |
| 32 | Ultrafast ammonia-driven, microwave-assisted synthesis of nitrogen-doped graphene quantum dots and their optical properties. Nanophotonics, 2017, 6, 259-267. | 2.9 | 106 |
| 33 | Scalable synthesis of porous hollow CoSe<sub>2</sub>â€“MoSe<sub>2</sub>/carbon microspheres for highly efficient hydrogen evolution reaction in acidic and alkaline media. Journal of Materials Chemistry A, 2018, 6, 12701-12707. | 5.2 | 106 |
| 34 | Mo2C quantum dots@graphene functionalized separator toward high-current-density lithium metal anodes for ultrastable Li-S batteries. Chemical Engineering Journal, 2020, 399, 125837. | 6.6 | 105 |
| 35 | Self-assembled CoSe 2 nanocrystals embedded into carbon nanowires as highly efficient catalyst for hydrogen evolution reaction. Electrochimica Acta, 2017, 231, 626-631. | 2.6 | 104 |
| 36 | 1T-MoS2 nanotubes wrapped with N-doped graphene as highly-efficient absorbent and electrocatalyst for Liâ€“S batteries. Journal of Power Sources, 2020, 447, 227364. | 4.0 | 103 |

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|---|---|---|---|
| 37 | Self-assembled chrysanthemum-like microspheres constructed by few-layer ReSe2 nanosheets as a highly efficient and stable electrocatalyst for hydrogen evolution reaction. Electrochimica Acta, 2017, 224, 593-599. | 2.6 | 102 |
| 38 | Nanocrystalline Ni 0.85 Se as Efficient Non-noble-metal Electrocatalyst for Hydrogen Evolution Reaction. Electrochimica Acta, 2017, 242, 25-30. | 2.6 | 101 |
| 39 | Cobalt phosphide nanoparticles supported within network of N-doped carbon nanotubes as a multifunctional and scalable electrocatalyst for water splitting. Journal of Energy Chemistry, 2021, 52, 130-138. | 7.1 | 99 |
| 40 | CoP nanosheets in-situ grown on N-doped graphene as an efficient and stable bifunctional electrocatalyst for hydrogen and oxygen evolution reactions. Electrochimica Acta, 2019, 307, 543-552. | 2.6 | 96 |
| 41 | In-situ Selenization of Co-based Metal-Organic Frameworks as a Highly Efficient Electrocatalyst for Hydrogen Evolution Reaction. Electrochimica Acta, 2017, 247, 258-264. | 2.6 | 93 |
| 42 | Vertically oriented few-layered HfS <sub>2</sub> nanosheets: growth mechanism and optical properties. 2D Materials, 2016, 3, 035024. | 2.0 | 88 |
| 43 | Co0.85Se hollow nanospheres anchored on N-doped graphene nanosheets as highly efficient, nonprecious electrocatalyst for hydrogen evolution reaction in both acid and alkaline media. Journal of Power Sources, 2018, 400, 232-241. | 4.0 | 85 |
| 44 | 3D hollow Coâ€“Feâ€“P nanoframes immobilized on N,P-doped CNT as an efficient electrocatalyst for overall water splitting. Nanoscale, 2019, 11, 17031-17040. | 2.8 | 85 |
| 45 | NiSe 2 nanoparticles embedded in CNT networks: Scalable synthesis and superior electrocatalytic activity for the hydrogen evolution reaction. Electrochemistry Communications, 2017, 83, 51-55. | 2.3 | 84 |
| 46 | W<sub>2</sub>C nanodot-decorated CNT networks as a highly efficient and stable electrocatalyst for hydrogen evolution in acidic and alkaline media. Nanoscale, 2019, 11, 4876-4884. | 2.8 | 83 |
| 47 | Three-dimensional hierarchical C-Co-N/Se derived from metal-organic framework as superior cathode for Li-Se batteries. Journal of Power Sources, 2017, 363, 103-109. | 4.0 | 82 |
| 48 | In Situ Construction of Mo<sub>2</sub>C Quantum Dotsâ€Decorated CNT Networks as a Multifunctional Electrocatalyst for Advanced Lithiumâ€“Sulfur Batteries. Small, 2021, 17, e2100460. | 5.2 | 81 |
| 49 | Outstanding Catalytic Effects of 1Tâ€²-MoTe<sub>2</sub> Quantum Dots@3D Graphene in Shuttle-Free Liâ€“S Batteries. ACS Nano, 2021, 15, 13279-13288. | 7.3 | 81 |
| 50 | Pomegranate-Like Silicon/Nitrogen-doped Graphene Microspheres as Superior-Capacity Anode for Lithium-Ion Batteries. Electrochimica Acta, 2016, 215, 667-673. | 2.6 | 80 |
| 51 | Coreâ€“Shell Structure of NiSe<sub>2</sub> Nanoparticles@Nitrogen-Doped Graphene for Hydrogen Evolution Reaction in Both Acidic and Alkaline Media. ACS Sustainable Chemistry and Engineering, 2019, 7, 4351-4359. | 3.2 | 80 |
| 52 | Mo<sub>2</sub>C Nanodots Anchored on Nâ€Doped Porous CNT Microspheres as Electrode for Efficient Liâ€Ion Storage. Small Methods, 2019, 3, 1800287. | 4.6 | 80 |
| 53 | FeNi<sub>3</sub>â€“Fe<sub>3</sub>O<sub>4</sub> Heterogeneous Nanoparticles Anchored on 2D MOF Nanosheets/1D CNT Matrix as Highly Efficient Bifunctional Electrocatalysts for Water Splitting. ACS Sustainable Chemistry and Engineering, 2020, 8, 3820-3831. | 3.2 | 80 |
| 54 | Synthesis of nitrogen-doped graphene by chemical vapour deposition using melamine as the sole solid source of carbon and nitrogen. Journal of Materials Chemistry C, 2014, 2, 7396. | 2.7 | 78 |

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|---|---|---|---|
| 55 | 3D-hierarchical MoSe <sub>2</sub> nanoarchitecture as a highly efficient electrocatalyst for hydrogen evolution. 2D Materials, 2017, 4, 025092. | 2.0 | 78 |
| 56 | Heterogeneous CoFeâ€“Co8FeS8 nanoparticles embedded in CNT networks as highly efficient and stable electrocatalysts for oxygen evolution reaction. Journal of Power Sources, 2019, 433, 126688. | 4.0 | 78 |
| 57 | Metalâ€“Organic Framework-Derived NiS/Fe<sub>3</sub>O<sub>4</sub> Heterostructure-Decorated Carbon Nanotubes as Highly Efficient and Durable Electrocatalysts for Oxygen Evolution Reaction. ACS Applied Materials & Interfaces, 2020, 12, 31552-31563. | 4.0 | 78 |
| 58 | Three-dimensional structure of WS 2 /graphene/Ni as a binder-free electrocatalytic electrode for highly effective and stable hydrogen evolution reaction. International Journal of Hydrogen Energy, 2017, 42, 7811-7819. | 3.8 | 76 |
| 59 | Synthesis and electrochemical properties of graphene-modified LiCo<sub>1/3</sub>Ni<sub>1/3</sub>Mn<sub>1/3</sub>O<sub>2</sub>cathodes for lithium ion batteries. RSC Advances, 2014, 4, 2568-2572. | 1.7 | 73 |
| 60 | Graphene-Enhanced Brillouin Optomechanical Microresonator for Ultrasensitive Gas Detection. Nano Letters, 2017, 17, 4996-5002. | 4.5 | 73 |
| 61 | Scalable Synthesis of Heterogeneous Wâ€“W<sub>2</sub>C Nanoparticle-Embedded CNT Networks for Boosted Hydrogen Evolution Reaction in Both Acidic and Alkaline Media. ACS Sustainable Chemistry and Engineering, 2019, 7, 10016-10024. | 3.2 | 73 |
| 62 | Constructing Ni/NiS Heteronanoparticle-Embedded Metalâ€“Organic Framework-Derived Nanosheets for Enhanced Water-Splitting Catalysis. ACS Sustainable Chemistry and Engineering, 2021, 9, 1920-1931. | 3.2 | 72 |
| 63 | Enhanced photocatalytic properties of graphene modified few-layered WSe 2 nanosheets. Applied Surface Science, 2017, 400, 420-425. | 3.1 | 71 |
| 64 | Biochemical sensing in graphene-enhanced microfiber resonators with individual molecule sensitivity and selectivity. Light: Science and Applications, 2019, 8, 107. | 7.7 | 70 |
| 65 | Enhanced Performance of Lithium Sulfur Battery with a Reduced Graphene Oxide Coating Separator. Journal of the Electrochemical Society, 2015, 162, A1624-A1629. | 1.3 | 68 |
| 66 | Scalable synthesis of graphene-wrapped CoSe2-SnSe2 hollow nanoboxes as a highly efficient and stable electrocatalyst for hydrogen evolution reaction. Electrochimica Acta, 2017, 255, 248-255. | 2.6 | 68 |
| 67 | Three-dimensional VS4/graphene hierarchical architecture as high-capacity anode for lithium-ion batteries. Journal of Alloys and Compounds, 2016, 685, 294-299. | 2.8 | 67 |
| 68 | Hierarchical MoSe2-CoSe2 nanotubes anchored on graphene nanosheets: A highly efficient and stable electrocatalyst for hydrogen evolution in alkaline medium. Electrochimica Acta, 2019, 299, 197-205. | 2.6 | 67 |
| 69 | Synthesis, characterization and electrical properties of silicon-doped graphene films. Journal of Materials Chemistry C, 2015, 3, 6301-6306. | 2.7 | 66 |
| 70 | Hierarchical architecture of ReS 2 /rGO composites with enhanced electrochemical properties for lithium-ion batteries. Applied Surface Science, 2017, 413, 123-128. | 3.1 | 66 |
| 71 | Self-assembled interwoven CoS2/CNTs/graphene architecture as anode for high-performance lithium ion batteries. Journal of Alloys and Compounds, 2017, 708, 1178-1183. | 2.8 | 64 |
| 72 | NiSe2 nanoparticles embedded in carbon nanowires as highly efficient and stable electrocatalyst for hydrogen evolution reaction. Electrochimica Acta, 2017, 254, 230-237. | 2.6 | 64 |

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|---|---|---|---|
| 73 | Self-assembled Ni2P/FeP heterostructural nanoparticles embedded in N-doped graphene nanosheets as highly efficient and stable multifunctional electrocatalyst for water splitting. Electrochimica Acta, 2019, 318, 449-459. | 2.6 | 64 |
| 74 | rGO wrapped trimetallic sulfide nanowires as an efficient bifunctional catalyst for electrocatalytic oxygen evolution and photocatalytic organic degradation. Journal of Materials Chemistry A, 2020, 8, 13558-13571. | 5.2 | 64 |
| 75 | Interwoven CoSe2/CNTs hybrid as a highly efficient and stable electrocatalyst for hydrogen evolution reaction. Electrochimica Acta, 2017, 253, 200-207. | 2.6 | 61 |
| 76 | Scalable synthesis of Mo2C/CNT networks as highly efficient and stable electrocatalyst for hydrogen evolution reaction. Electrochimica Acta, 2018, 263, 192-200. | 2.6 | 61 |
| 77 | Nanocrystalline Co0.85Se as a highly efficient non-noble-metal electrocatalyst for hydrogen evolution reaction. Electrochimica Acta, 2017, 247, 468-474. | 2.6 | 57 |
| 78 | Scalable synthesis of self-assembled bimetallic phosphide/N-doped graphene nanoflakes as an efficient electrocatalyst for overall water splitting. Nanoscale, 2019, 11, 12837-12845. | 2.8 | 55 |
| 79 | 3D chrysanthemum-like ReS2 microspheres composed of curly few-layered nanosheets with enhanced electrochemical properties for lithium-ion batteries. Journal of Materials Science, 2017, 52, 3622-3629. | 1.7 | 54 |
| 80 | A co-coordination strategy to realize janus-type bimetallic phosphide as highly efficient and durable bifunctional catalyst for water splitting. Journal of Materials Science and Technology, 2021, 74, 11-20. | 5.6 | 53 |
| 81 | Metalâ€“Organic Framework-Derived Fe-Doped Ni<sub>3</sub>Fe/NiFe<sub>2</sub>O<sub>4</sub> Heteronanoparticle-Decorated Carbon Nanotube Network as a Highly Efficient and Durable Bifunctional Electrocatalyst. ACS Applied Materials & Interfaces, 2020, 12, 55782-55794. | 4.0 | 52 |
| 82 | Double-shelled hollow bimetallic phosphide nanospheres anchored on nitrogen-doped graphene for boosting water electrolysis. Journal of Materials Chemistry A, 2020, 8, 22222-22229. | 5.2 | 51 |
| 83 | Few-layered WSe2 in-situ grown on graphene nanosheets as efficient anode for lithium-ion batteries. Electrochimica Acta, 2018, 283, 1660-1667. | 2.6 | 50 |
| 84 | CNT-interconnected iron-doped NiP2/Ni2P heterostructural nanoflowers as high-efficiency electrocatalyst for oxygen evolution reaction. International Journal of Hydrogen Energy, 2022, 47, 12903-12913. | 3.8 | 49 |
| 85 | Fe3N@N-doped graphene as a lithiophilic interlayer for highly stable lithium metal batteries. Energy Storage Materials, 2022, 45, 656-666. | 9.5 | 47 |
| 86 | MOF derived multi-metal oxides anchored N, P-doped carbon matrix as efficient and durable electrocatalyst for oxygen evolution reaction. Journal of Colloid and Interface Science, 2021, 581, 608-618. | 5.0 | 46 |
| 87 | Three-dimensional CoS2/RGO hierarchical architecture as superior-capability anode for lithium ion batteries. RSC Advances, 2015, 5, 71790-71795. | 1.7 | 45 |
| 88 | Synthesis of silicon-doped reduced graphene oxide and its applications in dye-sensitive solar cells and supercapacitors. RSC Advances, 2016, 6, 15080-15086. | 1.7 | 45 |
| 89 | Centimeter-sized 2D Î± -MoO <sub>3</sub> single crystal: growth, Raman anisotropy, and optoelectronic properties. 2D Materials, 2018, 5, 045011. | 2.0 | 45 |
| 90 | Hexagonal SnSe nanoplate supported SnO2-CNTs nanoarchitecture for enhanced photocatalytic degradation under visible light driven. Applied Surface Science, 2020, 507, 145026. | 3.1 | 45 |

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|---|---|---|---|
| 91 | A microwave-assisted bubble bursting strategy to grow Co8FeS8/CoS heterostructure on rearranged carbon nanotubes as efficient electrocatalyst for oxygen evolution reaction. Journal of Power Sources, 2020, 449, 227561. | 4.0 | 44 |
| 92 | Three-dimensional Ni/Ni3Fe embedded boron-doped carbon nanotubes nanochain frameworks as highly efficient and durable electrocatalyst for oxygen evolution reaction. Journal of Power Sources, 2020, 451, 227753. | 4.0 | 44 |
| 93 | Scalable Synthesis of Bimetallic Phosphide Decorated in Carbon Nanotube Network as Multifunctional Electrocatalyst for Water Splitting. ACS Sustainable Chemistry and Engineering, 2019, 7, 13031-13040. | 3.2 | 42 |
| 94 | NiSe2 nanocrystals anchored graphene nanosheets as highly efficient and stable electrocatalyst for hydrogen evolution reaction in alkaline medium. Journal of Alloys and Compounds, 2019, 792, 789-796. | 2.8 | 41 |
| 95 | Encapsulating hollow (Co,Fe)P nanoframes into N,P-codoped graphene aerogel for highly efficient water splitting. Journal of Power Sources, 2020, 456, 228015. | 4.0 | 40 |
| 96 | NbN nanodot decorated N-doped graphene as a multifunctional interlayer for high-performance lithiumâ€“sulfur batteries. Journal of Materials Chemistry A, 2022, 10, 8578-8590. | 5.2 | 39 |
| 97 | Observation of tunable electrical bandgap in large-area twisted bilayer graphene synthesized by chemical vapor deposition. Scientific Reports, 2015, 5, 15285. | 1.6 | 38 |
| 98 | Vertical V-Doped CoP Nanowall Arrays as a Highly Efficient and Stable Electrocatalyst for the Hydrogen Evolution Reaction at all pH Values. ACS Applied Energy Materials, 2020, 3, 1027-1035. | 2.5 | 38 |
| 99 | Self-assembled CoSe<sub>2</sub>â€“FeSe<sub>2</sub> heteronanoparticles along the carbon nanotube network for boosted oxygen evolution reaction. Nanoscale, 2021, 13, 9651-9658. | 2.8 | 38 |
| 100 | The green synthesis of reduced graphene oxide by the ethanol-thermal reaction and its electrical properties. Materials Letters, 2014, 116, 416-419. | 1.3 | 37 |
| 101 | Wrinkled sulfur@graphene microspheres with high sulfur loading as superior-capacity cathode for Li S batteries. Materials Today Energy, 2016, 1-2, 11-16. | 2.5 | 37 |
| 102 | CVD-grown three-dimensional sulfur-doped graphene as a binder-free electrocatalytic electrode for highly effective and stable hydrogen evolution reaction. Journal of Materials Science, 2018, 53, 7767-7777. | 1.7 | 37 |
| 103 | NiSe<sub>2</sub>-anchored N, S-doped graphene/Ni foam as a free-standing bifunctional electrocatalyst for efficient water splitting. Nanoscale, 2020, 12, 9866-9872. | 2.8 | 37 |
| 104 | Hierarchically porous nanoarchitecture constructed by ultrathin CoSe2 embedded Fe-CoO nanosheets as robust electrocatalyst for water oxidation. Journal of Materials Science and Technology, 2021, 78, 229-237. | 5.6 | 37 |
| 105 | Hierarchical ultrathin layered MoS2@NiFe2O4 nanohybrids as a bifunctional catalyst for highly efficient oxygen evolution and organic pollutant degradation. Journal of Colloid and Interface Science, 2021, 592, 385-396. | 5.0 | 37 |
| 106 | Self-assembled globular clusters-like cobalt hexacyanoferrate/carbon nanotubes hybrid as efficient nonprecious electrocatalyst for oxygen evolution reaction. Journal of Power Sources, 2019, 434, 126670. | 4.0 | 36 |
| 107 | Electronic Modulation of Hierarchical Spongy Nanosheets toward Efficient and Stable Water Electrolysis. Small, 2021, 17, e2006881. | 5.2 | 35 |
| 108 | Few-layered ReS2 nanosheets grown on graphene as electrocatalyst for hydrogen evolution reaction. Rare Metals, 2018, 37, 1014-1020. | 3.6 | 34 |

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|---|---|---|---|
| 109 | A three-dimensional porous CoSnS@CNT nanoarchitecture as a highly efficient bifunctional catalyst for boosted OER performance and photocatalytic degradation. Nanoscale, 2020, 12, 3879-3887. | 2.8 | 34 |
| 110 | Heterostructural CoFe2O4/CoO nanoparticles-embedded carbon nanotubes network for boosted overall water-splitting performance. Electrochimica Acta, 2022, 404, 139745. | 2.6 | 34 |
| 111 | Facile fabrication of RGO wrapped LiMn<sub>2</sub>O<sub>4</sub> nanorods as a cathode with enhanced specific capacity. RSC Advances, 2015, 5, 80063-80068. | 1.7 | 33 |
| 112 | Improving and Stabilizing Perovskite Solar Cells with Incorporation of Graphene in the Spiro-OMeTAD Layer: Suppressed Li Ions Migration and Improved Charge Extraction. ACS Applied Energy Materials, 2020, 3, 970-976. | 2.5 | 32 |
| 113 | Lithiophilic 3D VN@N-rGO as a Multifunctional Interlayer for Dendrite-Free and Ultrastable Lithium-Metal Batteries. ACS Applied Materials & Interfaces, 2021, 13, 20125-20136. | 4.0 | 32 |
| 114 | WN0.67-Embedded N-doped Graphene-Nanosheet Interlayer as efficient polysulfide catalyst and absorbant for High-Performance Lithium-Sulfur batteries. Chemical Engineering Journal, 2022, 431, 133439. | 6.6 | 31 |
| 115 | Effect of hydrogen on the growth of MoS2 thin layers by thermal decomposition method. Vacuum, 2015, 119, 204-208. | 1.6 | 30 |
| 116 | Investigating the stability of molecule doped graphene field effect transistors. New Journal of Chemistry, 2019, 43, 15275-15279. | 1.4 | 30 |
| 117 | MnCO3-RGO composite anode materials: In-situ solvothermal synthesis and electrochemical performances. Electrochimica Acta, 2019, 317, 786-794. | 2.6 | 30 |
| 118 | Iron-Modulated Three-Dimensional CoNiP Vertical Nanoarrays: An Exploratory Binder-Free Bifunctional Electrocatalyst for Efficient Overall Water Splitting. Journal of Physical Chemistry C, 2021, 125, 20972-20979. | 1.5 | 30 |
| 119 | Facile growth of large-area and high-quality few-layer ReS2 by physical vapour deposition. Materials Letters, 2016, 184, 324-327. | 1.3 | 29 |
| 120 | One-pot synthesis of self-assembled coral-like hierarchical architecture constructed by polymorphic CoSe2 nanocrystals as superior electrocatalyst for hydrogen evolution reaction. Electrochimica Acta, 2018, 277, 161-167. | 2.6 | 29 |
| 121 | Fe2P nanoparticles embedded on Ni2P nanosheets as highly efficient and stable bifunctional electrocatalysts for water splitting. Journal of Materials Science and Technology, 2022, 105, 266-273. | 5.6 | 29 |
| 122 | One-pot synthesis of graphene-wrapped NiSe2-Ni0.85Se hollow microspheres as superior and stable electrocatalyst for hydrogen evolution reaction. Electrochimica Acta, 2018, 291, 242-248. | 2.6 | 28 |
| 123 | Significant enhancement of photocatalytic activity of multi-walled carbon nanotubes modified WSe 2 composite. Materials Letters, 2017, 197, 67-70. | 1.3 | 26 |
| 124 | Significantly enhanced electrocatalytic properties of three-dimensional graphene foam via Ar plasma pretreatment and N, S co-doping. International Journal of Hydrogen Energy, 2017, 42, 27004-27012. | 3.8 | 26 |
| 125 | Self-assembled CNT/Ni0.85Se-SnO2 networks as highly efficient and stable electrocatalyst for hydrogen evolution reaction. Electrochimica Acta, 2018, 269, 155-162. | 2.6 | 26 |
| 126 | Three-dimensional porous nanoarchitecture constructed by ultrathin NiCoBOx nanosheets as a highly efficient and durable electrocatalyst for oxygen evolution reaction. Electrochimica Acta, 2019, 321, 134666. | 2.6 | 25 |

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|---|---|---|---|
| 127 | FeNi nanoparticles embedded porous nitrogen-doped nanocarbon as efficient electrocatalyst for oxygen evolution reaction. Electrochimica Acta, 2019, 321, 134720. | 2.6 | 25 |
| 128 | Regulating Li uniform deposition by lithiophilic interlayer as Li-ion redistributor for highly stable lithium metal batteries. Chemical Engineering Journal, 2022, 436, 134945. | 6.6 | 24 |
| 129 | Employing dual-ligand co-coordination compound to construct nanorod-like Bi-metallic (Fe, Co)P decorated with nitrogen-doped graphene for electrocatalytic overall water splitting. Electrochimica Acta, 2020, 350, 136338. | 2.6 | 23 |
| 130 | Porous interwoven CoSe2/C microsphere: a highly efficient and stable nonprecious electrocatalyst for hydrogen evolution reaction. Journal of Materials Science, 2019, 54, 14123-14133. | 1.7 | 22 |
| 131 | Self-reconstruction of a MOF-derived chromium-doped nickel disulfide in electrocatalytic water oxidation. Chemical Engineering Journal, 2022, 430, 133046. | 6.6 | 22 |
| 132 | Growth and properties of large-area sulfur-doped graphene films. Journal of Materials Chemistry C, 2017, 5, 7944-7949. | 2.7 | 21 |
| 133 | Coral-like hierarchical architecture self-assembled by cobalt hexacyanoferrate nanocrystals and N-doped carbon nanoplatelets as efficient electrocatalyst for oxygen evolution reaction. Journal of Colloid and Interface Science, 2020, 558, 190-199. | 5.0 | 21 |
| 134 | Enhanced photocatalytic properties of defect-rich Î±-MoO3 nanoflakes by cavitation and pitting effect. Journal of Hazardous Materials, 2019, 378, 120753. | 6.5 | 20 |
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