# Abdullah M Asiri

List of Publications by Year
in descending order

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|---|---|---|---|
| 290 papers | 41,819 citations | 1612 105 h-index | 2381 198 g-index |
| 330 all docs | 330 docs citations | 330 times ranked | 26426 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Self-Supported Nanoporous Cobalt Phosphide Nanowire Arrays: An Efficient 3D Hydrogen-Evolving Cathode over the Wide Range of pH 0â€“14. Journal of the American Chemical Society, 2014, 136, 7587-7590. | 6.6 | 2,208 |
| 2 | Recent Progress in Cobaltâ€Based Heterogeneous Catalysts for Electrochemical Water Splitting. Advanced Materials, 2016, 28, 215-230. | 11.1 | 2,083 |
| 3 | Hydrothermal Treatment of Grass: A Lowâ€Cost, Green Route to Nitrogenâ€Doped, Carbonâ€Rich, Photoluminescent Polymer Nanodots as an Effective Fluorescent Sensing Platform for Labelâ€Free Detection of Cu(II) Ions. Advanced Materials, 2012, 24, 2037-2041. | 11.1 | 1,345 |
| 4 | Economical, Green Synthesis of Fluorescent Carbon Nanoparticles and Their Use as Probes for Sensitive and Selective Detection of Mercury(II) Ions. Analytical Chemistry, 2012, 84, 5351-5357. | 3.2 | 986 |
| 5 | Carbon Nanotubes Decorated with CoP Nanocrystals: A Highly Active Nonâ€Nobleâ€Metal Nanohybrid Electrocatalyst for Hydrogen Evolution. Angewandte Chemie - International Edition, 2014, 53, 6710-6714. | 7.2 | 939 |
| 6 | Metalâ€“Organic Framework (MOF) Compounds: Photocatalysts for Redox Reactions and Solar Fuel Production. Angewandte Chemie - International Edition, 2016, 55, 5414-5445. | 7.2 | 888 |
| 7 | Feâ€Doped CoP Nanoarray: A Monolithic Multifunctional Catalyst for Highly Efficient Hydrogen Generation. Advanced Materials, 2017, 29, 1602441. | 11.1 | 834 |
| 8 | A Costâ€Effective 3D Hydrogen Evolution Cathode with High Catalytic Activity: FeP Nanowire Array as the Active Phase. Angewandte Chemie - International Edition, 2014, 53, 12855-12859. | 7.2 | 816 |
| 9 | Selfâ€Supported Cu<sub>3</sub>P Nanowire Arrays as an Integrated Highâ€Performance Threeâ€Dimensional Cathode for Generating Hydrogen from Water. Angewandte Chemie - International Edition, 2014, 53, 9577-9581. | 7.2 | 784 |
| 10 | Closely Interconnected Network of Molybdenum Phosphide Nanoparticles: A Highly Efficient Electrocatalyst for Generating Hydrogen from Water. Advanced Materials, 2014, 26, 5702-5707. | 11.1 | 783 |
| 11 | Electrochemical Ammonia Synthesis via Nitrogen Reduction Reaction on a MoS<sub>2</sub> Catalyst: Theoretical and Experimental Studies. Advanced Materials, 2018, 30, e1800191. | 11.1 | 697 |
| 12 | Energyâ€Saving Electrolytic Hydrogen Generation: Ni<sub>2</sub>P Nanoarray as a Highâ€Performance Nonâ€Nobleâ€Metal Electrocatalyst. Angewandte Chemie - International Edition, 2017, 56, 842-846. | 7.2 | 668 |
| 13 | Ternary Fe<sub>x</sub>Co<sub>1â€“x</sub>P Nanowire Array as a Robust Hydrogen Evolution Reaction Electrocatalyst with Pt-like Activity: Experimental and Theoretical Insight. Nano Letters, 2016, 16, 6617-6621. | 4.5 | 618 |
| 14 | Enhanced Electrocatalysis for Energyâ€Efficient Hydrogen Production over CoP Catalyst with Nonelectroactive Zn as a Promoter. Advanced Energy Materials, 2017, 7, 1700020. | 10.2 | 519 |
| 15 | Au-Nanoparticle-Loaded Graphitic Carbon Nitride Nanosheets: Green Photocatalytic Synthesis and Application toward the Degradation of Organic Pollutants. ACS Applied Materials & Interfaces, 2013, 5, 6815-6819. | 4.0 | 493 |
| 16 | Boosted Electrocatalytic N<sub>2</sub> Reduction to NH<sub>3</sub> by Defectâ€Rich MoS<sub>2</sub> Nanoflower. Advanced Energy Materials, 2018, 8, 1801357. | 10.2 | 482 |
| 17 | Mn Doping of CoP Nanosheets Array: An Efficient Electrocatalyst for Hydrogen Evolution Reaction with Enhanced Activity at All pH Values. ACS Catalysis, 2017, 7, 98-102. | 5.5 | 461 |
| 18 | Ultrathin Graphitic Carbon Nitride Nanosheet: A Highly Efficient Fluorosensor for Rapid, Ultrasensitive Detection of Cu<sup>2+</sup>. Analytical Chemistry, 2013, 85, 5595-5599. | 3.2 | 448 |

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| 19 | Self-Supported FeP Nanorod Arrays: A Cost-Effective 3D Hydrogen Evolution Cathode with High Catalytic Activity. ACS Catalysis, 2014, 4, 4065-4069. | 5.5 | 419 |
| 20 | NiCo<sub>2</sub>S<sub>4</sub>nanowires array as an efficient bifunctional electrocatalyst for full water splitting with superior activity. Nanoscale, 2015, 7, 15122-15126. | 2.8 | 390 |
| 21 | Electrodeposited Co-doped NiSe<sub>2</sub>nanoparticles film: a good electrocatalyst for efficient water splitting. Nanoscale, 2016, 8, 3911-3915. | 2.8 | 367 |
| 22 | Highâ€Performance Electrolytic Oxygen Evolution in Neutral Media Catalyzed by a Cobalt Phosphate Nanoarray. Angewandte Chemie - International Edition, 2017, 56, 1064-1068. | 7.2 | 348 |
| 23 | Selfâ€Standing CoP Nanosheets Array: A Threeâ€Dimensional Bifunctional Catalyst Electrode for Overall Water Splitting in both Neutral and Alkaline Media. ChemElectroChem, 2017, 4, 1840-1845. | 1.7 | 345 |
| 24 | Mo<sub>2</sub>C Nanoparticles Decorated Graphitic Carbon Sheets: Biopolymer-Derived Solid-State Synthesis and Application as an Efficient Electrocatalyst for Hydrogen Generation. ACS Catalysis, 2014, 4, 2658-2661. | 5.5 | 343 |
| 25 | An amorphous CoSe film behaves as an active and stable full water-splitting electrocatalyst under strongly alkaline conditions. Chemical Communications, 2015, 51, 16683-16686. | 2.2 | 336 |
| 26 | Ultrathin graphitic carbon nitride nanosheets: a low-cost, green, and highly efficient electrocatalyst toward the reduction of hydrogen peroxide and its glucose biosensing application. Nanoscale, 2013, 5, 8921. | 2.8 | 321 |
| 27 | A Zn-doped Ni<sub>3</sub>S<sub>2</sub>nanosheet array as a high-performance electrochemical water oxidation catalyst in alkaline solution. Chemical Communications, 2017, 53, 12446-12449. | 2.2 | 315 |
| 28 | A Mn-doped Ni<sub>2</sub>P nanosheet array: an efficient and durable hydrogen evolution reaction electrocatalyst in alkaline media. Chemical Communications, 2017, 53, 11048-11051. | 2.2 | 309 |
| 29 | A Fe-doped Ni<sub>3</sub>S<sub>2</sub>particle film as a high-efficiency robust oxygen evolution electrode with very high current density. Journal of Materials Chemistry A, 2015, 3, 23207-23212. | 5.2 | 308 |
| 30 | Ultrathin graphitic carbon nitride nanosheets: a novel peroxidase mimetic, Fe doping-mediated catalytic performance enhancement and application to rapid, highly sensitive optical detection of glucose. Nanoscale, 2013, 5, 11604. | 2.8 | 300 |
| 31 | High-performance urea electrolysis towards less energy-intensive electrochemical hydrogen production using a bifunctional catalyst electrode. Journal of Materials Chemistry A, 2017, 5, 3208-3213. | 5.2 | 295 |
| 32 | Iron-based phosphides as electrocatalysts for the hydrogen evolution reaction: recent advances and future prospects. Journal of Materials Chemistry A, 2020, 8, 19729-19745. | 5.2 | 295 |
| 33 | Co(OH)<sub>2</sub> Nanoparticleâ€Encapsulating Conductive Nanowires Array: Romaâ€Temperature Electrochemical Preparation for Highâ€Performance Water Oxidation Electrocatalysis. Advanced Materials, 2018, 30, 1705366. | 11.1 | 294 |
| 34 | In Situ Derived Coï£¿B Nanoarray: A Highâ€Efficiency and Durable 3D Bifunctional Electrocatalyst for Overall Alkaline Water Splitting. Small, 2017, 13, 1700805. | 5.2 | 293 |
| 35 | High-Performance N<sub>2</sub>-to-NH<sub>3</sub> Conversion Electrocatalyzed by Mo<sub>2</sub>C Nanorod. ACS Central Science, 2019, 5, 116-121. | 5.3 | 292 |
| 36 | Cobalt nitride nanowire array as an efficient electrochemical sensor for glucose and H2O2 detection. Sensors and Actuators B: Chemical, 2018, 255, 1254-1261. | 4.0 | 287 |

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|---|---|---|---|
| 37 | CoP Nanosheet Arrays Supported on a Ti Plate: An Efficient Cathode for Electrochemical Hydrogen Evolution. Chemistry of Materials, 2014, 26, 4326-4329. | 3.2 | 285 |
| 38 | Tungsten Phosphide Nanorod Arrays Directly Grown on Carbon Cloth: A Highly Efficient and Stable Hydrogen Evolution Cathode at All pH Values. ACS Applied Materials & Interfaces, 2014, 6, 21874-21879. | 4.0 | 279 |
| 39 | Ni<sub>2</sub>P nanoparticle films supported on a Ti plate as an efficient hydrogen evolution cathode. Nanoscale, 2014, 6, 11031-11034. | 2.8 | 277 |
| 40 | Co-Doped CuO Nanoarray: An Efficient Oxygen Evolution Reaction Electrocatalyst with Enhanced Activity. ACS Sustainable Chemistry and Engineering, 2018, 6, 2883-2887. | 3.2 | 277 |
| 41 | Al-Doped CoP nanoarray: a durable water-splitting electrocatalyst with superhigh activity. Nanoscale, 2017, 9, 4793-4800. | 2.8 | 268 |
| 42 | Design and Application of Foams for Electrocatalysis. ChemCatChem, 2017, 9, 1721-1743. | 1.8 | 245 |
| 43 | Efficient Electrochemical Water Splitting Catalyzed by Electrodeposited Nickel Diselenide Nanoparticles Based Film. ACS Applied Materials & Interfaces, 2016, 8, 4718-4723. | 4.0 | 239 |
| 44 | Three-Dimensional Porous Supramolecular Architecture from Ultrathin g-C<sub>3</sub>N<sub>4</sub> Nanosheets and Reduced Graphene Oxide: Solution Self-Assembly Construction and Application as a Highly Efficient Metal-Free Electrocatalyst for Oxygen Reduction Reaction. ACS Applied Materials & Interfaces, 2014, 6, 1011-1017. | 4.0 | 235 |
| 45 | Ultrathin Graphitic C<sub>3</sub>N<sub>4</sub> Nanosheets/Graphene Composites: Efficient Organic Electrocatalyst for Oxygen Evolution Reaction. ChemSusChem, 2014, 7, 2125-2130. | 3.6 | 232 |
| 46 | High-Efficiency Electrochemical Hydrogen Evolution Catalyzed by Tungsten Phosphide Submicroparticles. ACS Catalysis, 2015, 5, 145-149. | 5.5 | 231 |
| 47 | CoP nanostructures with different morphologies: synthesis, characterization and a study of their electrocatalytic performance toward the hydrogen evolution reaction. Journal of Materials Chemistry A, 2014, 2, 14634. | 5.2 | 227 |
| 48 | Microwave-assisted rapid green synthesis of photoluminescent carbon nanodots from flour and their applications for sensitive and selective detection of mercury(II) ions. Sensors and Actuators B: Chemical, 2013, 184, 156-162. | 4.0 | 226 |
| 49 | A porous Ni<sub>3</sub>N nanosheet array as a high-performance non-noble-metal catalyst for urea-assisted electrochemical hydrogen production. Inorganic Chemistry Frontiers, 2017, 4, 1120-1124. | 3.0 | 225 |
| 50 | Self-supported NiMo hollow nanorod array: an efficient 3D bifunctional catalytic electrode for overall water splitting. Journal of Materials Chemistry A, 2015, 3, 20056-20059. | 5.2 | 218 |
| 51 | Selective phosphidation: an effective strategy toward CoP/CeO<sub>2</sub> interface engineering for superior alkaline hydrogen evolution electrocatalysis. Journal of Materials Chemistry A, 2018, 6, 1985-1990. | 5.2 | 212 |
| 52 | Efficient Electrochemical N<sub>2</sub> Reduction to NH<sub>3</sub> on MoN Nanosheets Array under Ambient Conditions. ACS Sustainable Chemistry and Engineering, 2018, 6, 9550-9554. | 3.2 | 210 |
| 53 | Three-Dimensional Ni<sub>2</sub>P Nanoarray: An Efficient Catalyst Electrode for Sensitive and Selective Nonenzymatic Glucose Sensing with High Specificity. Analytical Chemistry, 2016, 88, 7885-7889. | 3.2 | 209 |
| 54 | A self-standing nanoporous MoP<sub>2</sub> nanosheet array: an advanced pH-universal catalytic electrode for the hydrogen evolution reaction. Journal of Materials Chemistry A, 2016, 4, 7169-7173. | 5.2 | 204 |

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| 55 | MnO2-CoP3 nanowires array: An efficient electrocatalyst for alkaline oxygen evolution reaction with enhanced activity. Electrochemistry Communications, 2018, 86, 161-165. | 2.3 | 202 |
| 56 | Mixed-metal or mixed-linker metal organic frameworks as heterogeneous catalysts. Catalysis Science and Technology, 2016, 6, 5238-5261. | 2.1 | 198 |
| 57 | Fabrication of hierarchical CoP nanosheet@microwire arrays via space-confined phosphidation toward high-efficiency water oxidation electrocatalysis under alkaline conditions. Nanoscale, 2018, 10, 7941-7945. | 2.8 | 197 |
| 58 | In situ formation of a 3D core/shell structured Ni<sub>3</sub>N@Niâ€“Bi nanosheet array: an efficient non-noble-metal bifunctional electrocatalyst toward full water splitting under near-neutral conditions. Journal of Materials Chemistry A, 2017, 5, 7806-7810. | 5.2 | 196 |
| 59 | Green, low-cost synthesis of photoluminescent carbon dots by hydrothermal treatment of willow bark and their application as an effective photocatalyst for fabricating Au nanoparticlesâ€“reduced graphene oxide nanocomposites for glucose detection. Catalysis Science and Technology, 2013, 3, 1027. | 2.1 | 193 |
| 60 | Fe-Doped Ni<sub>2</sub>P Nanosheet Array for High-Efficiency Electrochemical Water Oxidation. Inorganic Chemistry, 2017, 56, 1041-1044. | 1.9 | 193 |
| 61 | P-Doped Ag Nanoparticles Embedded in N-Doped Carbon Nanoflake: An Efficient Electrocatalyst for the Hydrogen Evolution Reaction. ACS Sustainable Chemistry and Engineering, 2018, 6, 4499-4503. | 3.2 | 193 |
| 62 | A hierarchical CuO@NiCo layered double hydroxide coreâ€“shell nanoarray as an efficient electrocatalyst for the oxygen evolution reaction. Inorganic Chemistry Frontiers, 2021, 8, 3049-3054. | 3.0 | 191 |
| 63 | Activated carbon nanotubes: a highly-active metal-free electrocatalyst for hydrogen evolution reaction. Chemical Communications, 2014, 50, 9340-9342. | 2.2 | 187 |
| 64 | Green synthesis of plant supported Cu Ag and Cu Ni bimetallic nanoparticles in the reduction of nitrophenols and organic dyes for water treatment. Journal of Molecular Liquids, 2018, 260, 78-91. | 2.3 | 187 |
| 65 | NiS2 nanosheets array grown on carbon cloth as an efficient 3D hydrogen evolution cathode. Electrochimica Acta, 2015, 153, 508-514. | 2.6 | 185 |
| 66 | Iron-doped nickel disulfide nanoarray: A highly efficient and stable electrocatalyst for water splitting. Nano Research, 2016, 9, 3346-3354. | 5.8 | 184 |
| 67 | Metal Organic Frameworks as Versatile Hosts of Au Nanoparticles in Heterogeneous Catalysis. ACS Catalysis, 2017, 7, 2896-2919. | 5.5 | 184 |
| 68 | Engineering UiOâ€66 Metal Organic Framework for Heterogeneous Catalysis. ChemCatChem, 2019, 11, 899-923. | 1.8 | 182 |
| 69 | CoSe<sub>2</sub> Nanowires Array as a 3D Electrode for Highly Efficient Electrochemical Hydrogen Evolution. ACS Applied Materials & Interfaces, 2015, 7, 3877-3881. | 4.0 | 174 |
| 70 | An amorphous Co-carbonate-hydroxide nanowire array for efficient and durable oxygen evolution reaction in carbonate electrolytes. Nanoscale, 2017, 9, 16612-16615. | 2.8 | 173 |
| 71 | High-Efficiency Electrosynthesis of Ammonia with High Selectivity under Ambient Conditions Enabled by VN Nanosheet Array. ACS Sustainable Chemistry and Engineering, 2018, 6, 9545-9549. | 3.2 | 170 |
| 72 | A Costâ€Effective 3D Hydrogen Evolution Cathode with High Catalytic Activity: FeP Nanowire Array as the Active Phase. Angewandte Chemie, 2014, 126, 13069-13073. | 1.6 | 168 |

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|---|---|---|---|
| 73 | Ni3S2 nanosheets array supported on Ni foam: A novel efficient three-dimensional hydrogen-evolving electrocatalyst in both neutral and basic solutions. International Journal of Hydrogen Energy, 2015, 40, 4727-4732. | 3.8 | 167 |
| 74 | FeP Nanoparticles Film Grown on Carbon Cloth: An Ultrahighly Active 3D Hydrogen Evolution Cathode in Both Acidic and Neutral Solutions. ACS Applied Materials & Interfaces, 2014, 6, 20579-20584. | 4.0 | 166 |
| 75 | Enhanced electrooxidation of urea using NiMoO4Â·xH2O nanosheet arrays on Ni foam as anode. Electrochimica Acta, 2015, 153, 456-460. | 2.6 | 159 |
| 76 | Recent Advances in 1D Electrospun Nanocatalysts for Electrochemical Water Splitting. Small Structures, 2021, 2, 2000048. | 6.9 | 157 |
| 77 | Self-supported CoP nanosheet arrays: a non-precious metal catalyst for efficient hydrogen generation from alkaline NaBH<sub>4</sub> solution. Journal of Materials Chemistry A, 2016, 4, 13053-13057. | 5.2 | 154 |
| 78 | Nickel promoted cobalt disulfide nanowire array supported on carbon cloth: An efficient and stable bifunctional electrocatalyst for full water splitting. Electrochemistry Communications, 2016, 63, 60-64. | 2.3 | 154 |
| 79 | Acidically oxidized carbon cloth: a novel metal-free oxygen evolution electrode with high catalytic activity. Chemical Communications, 2015, 51, 1616-1619. | 2.2 | 153 |
| 80 | Sulfur-doped graphene for efficient electrocatalytic N<sub>2</sub>-to-NH<sub>3</sub> fixation. Chemical Communications, 2019, 55, 3371-3374. | 2.2 | 152 |
| 81 | Template-assisted synthesis of CoP nanotubes to efficiently catalyze hydrogen-evolving reaction. Journal of Materials Chemistry A, 2014, 2, 14812-14816. | 5.2 | 147 |
| 82 | 3D macroporous MoS2 thin film: in situ hydrothermal preparation and application as a highly active hydrogen evolution electrocatalyst at all pH values. Electrochimica Acta, 2015, 168, 133-138. | 2.6 | 147 |
| 83 | Metalâ€“organic frameworks for solar energy conversion by photoredox catalysis. Coordination Chemistry Reviews, 2018, 373, 83-115. | 9.5 | 146 |
| 84 | Recent advances in emerging 2D nanomaterials for biosensing and bioimaging applications. Materials Today, 2018, 21, 164-177. | 8.3 | 145 |
| 85 | Ni<sub>3</sub>Se<sub>2</sub>film as a non-precious metal bifunctional electrocatalyst for efficient water splitting. Catalysis Science and Technology, 2015, 5, 4954-4958. | 2.1 | 144 |
| 86 | Copperâ€Nitride Nanowires Array: An Efficient Dualâ€Functional Catalyst Electrode for Sensitive and Selective Nonâ€Enzymatic Glucose and Hydrogen Peroxide Sensing. Chemistry - A European Journal, 2017, 23, 4986-4989. | 1.7 | 140 |
| 87 | Energyâ€Saving Electrolytic Hydrogen Generation: Ni<sub>2</sub>P Nanoarray as a Highâ€Performance Nonâ€Nobleâ€Metal Electrocatalyst. Angewandte Chemie, 2017, 129, 860-864. | 1.6 | 140 |
| 88 | Integrating natural biomass electro-oxidation and hydrogen evolution: using a porous Fe-doped CoP nanosheet array as a bifunctional catalyst. Chemical Communications, 2017, 53, 5710-5713. | 2.2 | 138 |
| 89 | Iron-group electrocatalysts for ambient nitrogen reduction reaction in aqueous media. Nano Research, 2021, 14, 555-569. | 5.8 | 137 |
| 90 | Characterization of a novel natural cellulosic fiber from Calotropis gigantea fruit bunch for ecofriendly polymer composites. International Journal of Biological Macromolecules, 2020, 150, 793-801. | 3.6 | 135 |

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|---|---|---|---|
| 91 | NiCoP Nanoarray: A Superior Pseudocapacitor Electrode with High Areal Capacitance. Chemistry - A European Journal, 2017, 23, 4435-4441. | 1.7 | 134 |
| 92 | Cu(OH)<sub>2</sub>@CoCO<sub>3</sub>(OH)<sub>2</sub>Â·nH<sub>2</sub>O Coreâ€“Shell Heterostructure Nanowire Array: An Efficient 3D Anodic Catalyst for Oxygen Evolution and Methanol Electrooxidation. Small, 2017, 13, 1602755. | 5.2 | 133 |
| 93 | Three-Dimensional Structures of MoS<sub>2</sub>@Ni Core/Shell Nanosheets Array toward Synergetic Electrocatalytic Water Splitting. ACS Applied Materials & Interfaces, 2016, 8, 14521-14526. | 4.0 | 132 |
| 94 | Highly Selective Electrochemical Reduction of CO<sub>2</sub> to Alcohols on an FeP Nanoarray. Angewandte Chemie - International Edition, 2020, 59, 758-762. | 7.2 | 132 |
| 95 | Metalâ€“Organic Framework Enhances Aggregation-Induced Fluorescence of Chlortetracycline and the Application for Detection. Analytical Chemistry, 2019, 91, 5913-5921. | 3.2 | 130 |
| 96 | An amorphous FeMoS<sub>4</sub> nanorod array toward efficient hydrogen evolution electrocatalysis under neutral conditions. Chemical Communications, 2017, 53, 9000-9003. | 2.2 | 124 |
| 97 | An Fe(TCNQ)<sub>2</sub>nanowire array on Fe foil: an efficient non-noble-metal catalyst for the oxygen evolution reaction in alkaline media. Chemical Communications, 2018, 54, 2300-2303. | 2.2 | 120 |
| 98 | Hexagonal boron nitride nanosheet for effective ambient N2 fixation to NH3. Nano Research, 2019, 12, 919-924. | 5.8 | 120 |
| 99 | Catalysis by metalâ€“organic frameworks in water. Chemical Communications, 2014, 50, 12800-12814. | 2.2 | 117 |
| 100 | Fe<sub>3</sub>Nâ€Co<sub>2</sub>N Nanowires Array: A Nonâ€Nobleâ€Metal Bifunctional Catalyst Electrode for Highâ€Performance Glucose Oxidation and H<sub>2</sub>O<sub>2</sub> Reduction toward Nonâ€Enzymatic Sensing Applications. Chemistry - A European Journal, 2017, 23, 5214-5218. | 1.7 | 117 |
| 101 | Tungsten nitride nanorods array grown on carbon cloth as an efficient hydrogen evolution cathode at all pH values. Electrochimica Acta, 2015, 154, 345-351. | 2.6 | 116 |
| 102 | Highly-active oxygen evolution electrocatalyzed by a Fe-doped NiSe nanoflake array electrode. Chemical Communications, 2016, 52, 4529-4532. | 2.2 | 116 |
| 103 | A self-supported NiMoS<sub>4</sub> nanoarray as an efficient 3D cathode for the alkaline hydrogen evolution reaction. Journal of Materials Chemistry A, 2017, 5, 16585-16589. | 5.2 | 114 |
| 104 | Graphitic carbon nitride nanosheets: one-step, high-yield synthesis and application for Cu<sup>2+</sup>detection. Analyst, The, 2014, 139, 5065-5068. | 1.7 | 111 |
| 105 | One-step electrodeposition of Niâ€“Coâ€“S nanosheets film as a bifunctional electrocatalyst for efficient water splitting. International Journal of Hydrogen Energy, 2016, 41, 7264-7269. | 3.8 | 107 |
| 106 | An MnO<sub>2</sub>â€“Ti<sub>3</sub>C<sub>2</sub>T<sub>x</sub> MXene nanohybrid: an efficient and durable electrocatalyst toward artificial N<sub>2</sub> fixation to NH<sub>3</sub> under ambient conditions. Journal of Materials Chemistry A, 2019, 7, 18823-18827. | 5.2 | 107 |
| 107 | Sulfur dotsâ€“graphene nanohybrid: a metal-free electrocatalyst for efficient N<sub>2</sub>-to-NH<sub>3</sub> fixation under ambient conditions. Chemical Communications, 2019, 55, 3152-3155. | 2.2 | 106 |
| 108 | Interconnected urchin-like cobalt phosphide microspheres film for highly efficient electrochemical hydrogen evolution in both acidic and basic media. Journal of Materials Chemistry A, 2016, 4, 10114-10117. | 5.2 | 103 |

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| 109 | Cu/(Cu(OH) 2 -CuO) core/shell nanorods array: in-situ growth and application as an efficient 3D oxygen evolution anode. Electrochimica Acta, 2015, 163, 102-106. | 2.6 | 101 |
| 110 | Energy-efficient electrolytic hydrogen generation using a Cu<sub>3</sub>P nanoarray as a bifunctional catalyst for hydrazine oxidation and water reduction. Inorganic Chemistry Frontiers, 2017, 4, 420-423. | 3.0 | 101 |
| 111 | Superior hydrogen evolution electrocatalysis enabled by CoP nanowire array on graphite felt. International Journal of Hydrogen Energy, 2022, 47, 3580-3586. | 3.8 | 101 |
| 112 | Zn0.76Co0.24S/CoS2 nanowires array for efficient electrochemical splitting of water. Electrochimica Acta, 2016, 190, 360-364. | 2.6 | 99 |
| 113 | Ternary NiCoP nanosheet array on a Ti mesh: a high-performance electrochemical sensor for glucose detection. Chemical Communications, 2016, 52, 14438-14441. | 2.2 | 98 |
| 114 | An Fe-MOF nanosheet array with superior activity towards the alkaline oxygen evolution reaction. Inorganic Chemistry Frontiers, 2018, 5, 1405-1408. | 3.0 | 97 |
| 115 | Hierarchical CuO@ZnCo LDH heterostructured nanowire arrays toward enhanced water oxidation electrocatalysis. Nanoscale, 2020, 12, 5359-5362. | 2.8 | 97 |
| 116 | Magnetron sputtering enabled sustainable synthesis of nanomaterials for energy electrocatalysis. Green Chemistry, 2021, 23, 2834-2867. | 4.6 | 96 |
| 117 | Bimetallic Nickelâ€Substituted Cobaltâ€Borate Nanowire Array: An Earthâ€Abundant Water Oxidation Electrocatalyst with Superior Activity and Durability at Near Neutral pH. Small, 2017, 13, 1700394. | 5.2 | 95 |
| 118 | Cobalt phosphide nanowire array as an effective electrocatalyst for non-enzymatic glucose sensing. Journal of Materials Chemistry B, 2017, 5, 1901-1904. | 2.9 | 94 |
| 119 | Tuneable nature of metal organic frameworks as heterogeneous solid catalysts for alcohol oxidation. Chemical Communications, 2017, 53, 10851-10869. | 2.2 | 94 |
| 120 | Mn3O4 nanoparticles@reduced graphene oxide composite: An efficient electrocatalyst for artificial N2 fixation to NH3 at ambient conditions. Nano Research, 2019, 12, 1093-1098. | 5.8 | 93 |
| 121 | Cobalt phosphide nanoparticles film growth on carbon cloth: A high-performance cathode for electrochemical hydrogen evolution. International Journal of Hydrogen Energy, 2014, 39, 16806-16811. | 3.8 | 90 |
| 122 | Three-dimensional interconnected network of nanoporous CoP nanowires as an efficient hydrogen evolution cathode. Physical Chemistry Chemical Physics, 2014, 16, 16909. | 1.3 | 90 |
| 123 | A Ni<sub>2</sub>P nanosheet array integrated on 3D Ni foam: an efficient, robust and reusable monolithic catalyst for the hydrolytic dehydrogenation of ammonia borane toward on-demand hydrogen generation. Journal of Materials Chemistry A, 2016, 4, 12407-12410. | 5.2 | 90 |
| 124 | Spinel LiMn<sub>2</sub>O<sub>4</sub> Nanofiber: An Efficient Electrocatalyst for N<sub>2</sub> Reduction to NH<sub>3</sub> under Ambient Conditions. Inorganic Chemistry, 2019, 58, 9597-9601. | 1.9 | 90 |
| 125 | CoP nanoarray: a robust non-noble-metal hydrogen-generating catalyst toward effective hydrolysis of ammonia borane. Inorganic Chemistry Frontiers, 2017, 4, 659-662. | 3.0 | 88 |
| 126 | Amorphous Ni-B alloy nanoparticle film on Ni foam: rapid alternately dipping deposition for efficient overall water splitting. Nanotechnology, 2016, 27, 12LT01. | 1.3 | 86 |

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|---|---|---|---|
| 127 | Rapid, sensitive, and selective fluorescent DNA detection using iron-based metalâ€“organic framework nanorods: Synergies of the metal center and organic linker. Biosensors and Bioelectronics, 2015, 71, 1-6. | 5.3 | 83 |
| 128 | Alkylthiol surface engineering: an effective strategy toward enhanced electrocatalytic N<sub>2</sub>-to-NH<sub>3</sub> fixation by a CoP nanoarray. Journal of Materials Chemistry A, 2021, 9, 13861-13866. | 5.2 | 83 |
| 129 | In situ electrochemical surface derivation of cobalt phosphate from a Co(CO<sub>3</sub>)<sub>0.5</sub>(OH)Â·0.11H<sub>2</sub>O nanoarray for efficient water oxidation in neutral aqueous solution. Nanoscale, 2017, 9, 3752-3756. | 2.8 | 82 |
| 130 | Ultrathin graphitic C3N4 nanofibers: Hydrolysis-driven top-down rapid synthesis and application as a novel fluorosensor for rapid, sensitive, and selective detection of Fe3+. Sensors and Actuators B: Chemical, 2015, 216, 453-460. | 4.0 | 81 |
| 131 | Electrodeposited Niâ€P Alloy Nanoparticle Films for Efficiently Catalyzing Hydrogenâ€•and Oxygenâ€Evolution Reactions. ChemNanoMat, 2015, 1, 558-561. | 1.5 | 80 |
| 132 | Cellulose Derived Graphene/Polyaniline Nanocomposite Anode for Energy Generation and Bioremediation of Toxic Metals via Benthic Microbial Fuel Cells. Polymers, 2021, 13, 135. | 2.0 | 80 |
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