List of Publications by Year in descending order

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ТОЛСНИА РИ

| # | Article | IF | CITATIONS |
|----|---|------|-----------|
| 1 | NiSe Nanowire Film Supported on Nickel Foam: An Efficient and Stable 3D Bifunctional Electrode for Full Water Splitting. Angewandte Chemie - International Edition, 2015, 54, 9351-9355. | 13.8 | 1,242 |
| 2 | From 3D ZIF Nanocrystals to Co–N <i>_x</i> /C Nanorod Array Electrocatalysts for ORR, OER, and Zn–Air Batteries. Advanced Functional Materials, 2018, 28, 1704638. | 14.9 | 708 |
| 3 | Multifunctional Mo–N/C@MoS ₂ Electrocatalysts for HER, OER, ORR, and Zn–Air Batteries. Advanced Functional Materials, 2017, 27, 1702300. | 14.9 | 658 |
| 4 | RuP ₂ â€Based Catalysts with Platinumâ€ŀike Activity and Higher Durability for the Hydrogen Evolution Reaction at All pHâ€Values. Angewandte Chemie - International Edition, 2017, 56, 11559-11564. | 13.8 | 564 |
| 5 | A universal synthesis strategy for P-rich noble metal diphosphide-based electrocatalysts for the hydrogen evolution reaction. Energy and Environmental Science, 2019, 12, 952-957. | 30.8 | 397 |
| 6 | Transitionâ€Metal Phosphides: Activity Origin, Energyâ€Related Electrocatalysis Applications, and Synthetic Strategies. Advanced Functional Materials, 2020, 30, 2004009. | 14.9 | 309 |
| 7 | CoP Nanosheet Arrays Supported on a Ti Plate: An Efficient Cathode for Electrochemical Hydrogen Evolution. Chemistry of Materials, 2014, 26, 4326-4329. | 6.7 | 285 |
| 8 | 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. | 8.0 | 279 |
| 9 | Ni ₂ P nanoparticle films supported on a Ti plate as an efficient hydrogen evolution cathode. Nanoscale, 2014, 6, 11031-11034. | 5.6 | 277 |
| 10 | Nitrogen-Doped carbon coupled FeNi3 intermetallic compound as advanced bifunctional electrocatalyst for OER, ORR and zn-air batteries. Applied Catalysis B: Environmental, 2020, 268, 118729. | 20.2 | 265 |
| 11 | Ru-doped 3D flower-like bimetallic phosphide with a climbing effect on overall water splitting. Applied Catalysis B: Environmental, 2020, 279, 119396. | 20.2 | 251 |
| 12 | Efficient Electrochemical Water Splitting Catalyzed by Electrodeposited Nickel Diselenide Nanoparticles Based Film. ACS Applied Materials & Interfaces, 2016, 8, 4718-4723. | 8.0 | 239 |
| 13 | 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. | 10.3 | 227 |
| 14 | Coupling NiSe2-Ni2P heterostructure nanowrinkles for highly efficient overall water splitting. Journal of Catalysis, 2019, 377, 600-608. | 6.2 | 222 |
| 15 | A universal synthesis strategy for single atom dispersed cobalt/metal clusters heterostructure boosting hydrogen evolution catalysis at all pH values. Nano Energy, 2019, 59, 472-480. | 16.0 | 202 |
| 16 | Phytic acid-derivative transition metal phosphides encapsulated in N,P-codoped carbon: an efficient and durable hydrogen evolution electrocatalyst in a wide pH range. Nanoscale, 2017, 9, 3555-3560. | 5.6 | 201 |
| 17 | Iron-Doped Nickel Phosphide Nanosheet Arrays: An Efficient Bifunctional Electrocatalyst for Water Splitting. ACS Applied Materials & amp; Interfaces, 2017, 9, 26001-26007. | 8.0 | 200 |
| 18 | Flexible molybdenum phosphide nanosheet array electrodes for hydrogen evolution reaction in a wide pH range. Applied Catalysis B: Environmental, 2016, 196, 193-198. | 20.2 | 189 |

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|----|--|------|-----------|
| 19 | NiS2 nanosheets array grown on carbon cloth as an efficient 3D hydrogen evolution cathode. Electrochimica Acta, 2015, 153, 508-514. | 5.2 | 185 |
| 20 | General Strategy for the Synthesis of Transition-Metal Phosphide/N-Doped Carbon Frameworks for Hydrogen and Oxygen Evolution. ACS Applied Materials & Interfaces, 2017, 9, 16187-16193. | 8.0 | 175 |
| 21 | Ultralow Ru Loading Transition Metal Phosphides as Highâ€Efficient Bifunctional Electrocatalyst for a Solarâ€ŧoâ€Hydrogen Generation System. Advanced Energy Materials, 2020, 10, 2000814. | 19.5 | 174 |
| 22 | 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. | 7.1 | 167 |
| 23 | Single-Atom Catalysts for Electrochemical Hydrogen Evolution Reaction: Recent Advances and Future Perspectives. Nano-Micro Letters, 2020, 12, 21. | 27.0 | 159 |
| 24 | Inâ€Situ Growth of NiSe Nanowire Film on Nickel Foam as an Electrode for Highâ€Performance Supercapacitors. ChemElectroChem, 2015, 2, 1903-1907. | 3.4 | 157 |
| 25 | Semimetallic MoP ₂ : an active and stable hydrogen evolution electrocatalyst over the whole pH range. Nanoscale, 2016, 8, 8500-8504. | 5.6 | 155 |
| 26 | 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. | 5.2 | 147 |
| 27 | Mo ₂ C quantum dot embedded chitosan-derived nitrogen-doped carbon for efficient hydrogen evolution in a broad pH range. Chemical Communications, 2016, 52, 12753-12756. | 4.1 | 138 |
| 28 | Co ₂ P quantum dot embedded N, P dual-doped carbon self-supported electrodes with flexible and binder-free properties for efficient hydrogen evolution reactions. Nanoscale, 2018, 10, 2902-2907. | 5.6 | 136 |
| 29 | Surface reconstruction engineering of cobalt phosphides by Ru inducement to form hollow Ru-RuPx-CoxP pre-electrocatalysts with accelerated oxygen evolution reaction. Nano Energy, 2018, 53, 270-276. | 16.0 | 135 |
| 30 | Nano-single crystal coalesced PtCu nanospheres as robust bifunctional catalyst for hydrogen evolution and oxygen reduction reactions. Journal of Catalysis, 2019, 375, 164-170. | 6.2 | 133 |
| 31 | Iron oxide and phosphide encapsulated within N,P-doped microporous carbon nanofibers as advanced tri-functional electrocatalyst toward oxygen reduction/evolution and hydrogen evolution reactions and zinc-air batteries. Journal of Power Sources, 2019, 413, 367-375. | 7.8 | 118 |
| 32 | Tungsten nitride nanorods array grown on carbon cloth as an efficient hydrogen evolution cathode at all pH values. Electrochimica Acta, 2015, 154, 345-351. | 5.2 | 116 |
| 33 | Ultrasmall tungsten phosphide nanoparticles embedded in nitrogen-doped carbon as a highly active and stable hydrogen-evolution electrocatalyst. Journal of Materials Chemistry A, 2016, 4, 15327-15332. | 10.3 | 116 |
| 34 | Ionothermal Route to Phase-Pure RuB ₂ Catalysts for Efficient Oxygen Evolution and Water Splitting in Acidic Media. ACS Energy Letters, 2020, 5, 2909-2915. | 17.4 | 116 |
| 35 | Synergistic Coupling of Ni Nanoparticles with Ni ₃ C Nanosheets for Highly Efficient Overall Water Splitting. Small, 2020, 16, e2001642. | 10.0 | 97 |
| 36 | The role of iron nitrides in the Fe–N–C catalysis system towards the oxygen reduction reaction. Nanoscale, 2017, 9, 7641-7649. | 5.6 | 96 |

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|----|--|------|-----------|
| 37 | Double Metal Diphosphide Pair Nanocages Coupled with P-Doped Carbon for Accelerated Oxygen and Hydrogen Evolution Kinetics. ACS Applied Materials & Interfaces, 2020, 12, 727-733. | 8.0 | 93 |
| 38 | Activating rhodium phosphide-based catalysts for the pH-universal hydrogen evolution reaction. Nanoscale, 2018, 10, 12407-12412. | 5.6 | 89 |
| 39 | RuP ₂ â€Based Catalysts with Platinumâ€like Activity and Higher Durability for the Hydrogen Evolution Reaction at All pHâ€Values. Angewandte Chemie, 2017, 129, 11717-11722. | 2.0 | 86 |
| 40 | Interfacial engineering of Co nanoparticles/Co2C nanowires boosts overall water splitting kinetics. Applied Catalysis B: Environmental, 2021, 296, 120334. | 20.2 | 85 |
| 41 | Graphene film-confined molybdenum sulfide nanoparticles: Facile one-step electrodeposition preparation and application as a highly active hydrogen evolution reaction electrocatalyst. Journal of Power Sources, 2014, 263, 181-185. | 7.8 | 83 |
| 42 | Ultrastable nitrogen-doped carbon encapsulating molybdenum phosphide nanoparticles as highly efficient electrocatalyst for hydrogen generation. Nanoscale, 2016, 8, 17256-17261. | 5.6 | 83 |
| 43 | Ultrafine Molybdenum Carbide Nanocrystals Confined in Carbon Foams via a Colloidâ€Confinement Route for Efficient Hydrogen Production. Small Methods, 2018, 2, 1700396. | 8.6 | 83 |
| 44 | Nitrogen-doped carbon nanotube supported iron phosphide nanocomposites for highly active electrocatalysis of the hydrogen evolution reaction. Electrochimica Acta, 2014, 149, 324-329. | 5.2 | 79 |
| 45 | Efficient water splitting catalyzed by flexible NiP ₂ nanosheet array electrodes under both neutral and alkaline solutions. New Journal of Chemistry, 2017, 41, 2154-2159. | 2.8 | 77 |
| 46 | Molybdenum Carbide-Derived Chlorine-Doped Ordered Mesoporous Carbon with Few-Layered Graphene Walls for Energy Storage Applications. ACS Applied Materials & Interfaces, 2017, 9, 3702-3712. | 8.0 | 75 |
| 47 | Integrated design and construction of WP/W nanorod array electrodes toward efficient hydrogen evolution reaction. Chemical Engineering Journal, 2017, 327, 705-712. | 12.7 | 72 |
| 48 | Boron-rich environment boosting ruthenium boride on B, N doped carbon outperforms platinum for hydrogen evolution reaction in a universal pH range. Nano Energy, 2020, 75, 104881. | 16.0 | 71 |
| 49 | One-step electrodeposition fabrication of graphene film-confined WS2 nanoparticles with enhanced electrochemical catalytic activity for hydrogen evolution. Electrochimica Acta, 2014, 134, 8-12. | 5.2 | 67 |
| 50 | N-doped carbon nanotubes from functional tubular polypyrrole: A highly efficient electrocatalyst for oxygen reduction reaction. Electrochemistry Communications, 2013, 36, 57-61. | 4.7 | 65 |
| 51 | Constructing carbon-cohered high-index (222) faceted tantalum carbide nanocrystals as a robust hydrogen evolution catalyst. Nano Energy, 2017, 36, 374-380. | 16.0 | 58 |
| 52 | MOF-assisted synthesis of octahedral carbon-supported PtCu nanoalloy catalysts for an efficient hydrogen evolution reaction. Journal of Materials Chemistry A, 2020, 8, 19348-19356. | 10.3 | 58 |
| 53 | Significantly Improved Water Oxidation of CoP Catalysts by Electrochemical Activation. ACS Sustainable Chemistry and Engineering, 2020, 8, 17851-17859. | 6.7 | 55 |
| 54 | Swapping Catalytic Active Sites from Cationic Ni to Anionic S in Nickel Sulfide Enables More Efficient Alkaline Hydrogen Generation. Advanced Energy Materials, 2022, 12, . | 19.5 | 55 |

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|----|---|------|-----------|
| 55 | Tunable <scp>Ruâ€Ru₂P</scp> heterostructures with charge redistribution for efficient <scp>pHâ€universal</scp> hydrogen evolution. InformaÄnÃ-Materiály, 2022, 4, . | 17.3 | 53 |
| 56 | Scalable cellulose-sponsored functionalized carbon nanorods induced by cobalt for efficient overall water splitting. Carbon, 2018, 137, 274-281. | 10.3 | 50 |
| 57 | Regenerative fuel cells: Recent progress, challenges, perspectives and their applications for space energy system. Applied Energy, 2021, 283, 116376. | 10.1 | 50 |
| 58 | General Synthesis of Transitionâ€Metalâ€Based Carbonâ€Group Intermetallic Catalysts for Efficient Electrocatalytic Hydrogen Evolution in Wide pH Range. Advanced Energy Materials, 2022, 12, . | 19.5 | 50 |
| 59 | Nanostructured Metal Borides for Energyâ€Related Electrocatalysis: Recent Progress, Challenges, and Perspectives. Small Methods, 2021, 5, e2100699. | 8.6 | 47 |
| 60 | Anion-Modulated Platinum for High-Performance Multifunctional Electrocatalysis toward HER, HOR, and ORR. IScience, 2020, 23, 101793. | 4.1 | 45 |
| 61 | Efficient strategy for significantly decreasing overpotentials of hydrogen generation via oxidizing small molecules at flexible bifunctional CoSe electrodes. Journal of Power Sources, 2018, 401, 238-244. | 7.8 | 44 |
| 62 | Fabrication of Ni(OH)2 coated ZnO array for high-rate pseudocapacitive energy storage. Electrochimica Acta, 2013, 109, 252-255. | 5.2 | 43 |
| 63 | Anion-modulated molybdenum oxide enclosed ruthenium nano-capsules with almost the same water splitting capability in acidic and alkaline media. Nano Energy, 2022, 100, 107445. | 16.0 | 42 |
| 64 | Robust MOF-253-derived N-doped carbon confinement of Pt single nanocrystal electrocatalysts for oxygen evolution reaction. Chinese Journal of Catalysis, 2020, 41, 839-846. | 14.0 | 41 |
| 65 | Molybdenum Carbideâ€PtCu Nanoalloy Heterostructures on MOFâ€Đerived Carbon toward Efficient Hydrogen Evolution. Small, 2021, 17, e2104241. | 10.0 | 40 |
| 66 | Shrunken hollow Mo-N/Mo-C nanosphere structure for efficient hydrogen evolution in a broad pH range. Electrochimica Acta, 2019, 298, 799-805. | 5.2 | 38 |
| 67 | Versatile Route To Fabricate Precious-Metal Phosphide Electrocatalyst for Acid-Stable Hydrogen Oxidation and Evolution Reactions. ACS Applied Materials & Interfaces, 2020, 12, 11737-11744. | 8.0 | 37 |
| 68 | H ₂ O ₂ â€Assisted Synthesis of Porous Nâ€Đoped Graphene/Molybdenum Nitride Composites with Boosted Oxygen Reduction Reaction. Advanced Materials Interfaces, 2017, 4, 1601227. | 3.7 | 35 |
| 69 | Phosphorization engineering ameliorated the electrocatalytic activity for overall water splitting on Ni ₃ S ₂ nanosheets. Dalton Transactions, 2019, 48, 13466-13471. | 3.3 | 32 |
| 70 | Mapping Hydrogen Evolution Activity Trends of Intermetallic Pt-Group Silicides. ACS Catalysis, 2022, 12, 2623-2631. | 11.2 | 32 |
| 71 | Phosphorous-doped carbon coordinated iridium diphosphide bifunctional catalyst with ultralow iridium amount for efficient all-pH-value hydrogen evolution and oxygen reduction reactions. Journal of Catalysis, 2020, 383, 244-253. | 6.2 | 30 |
| 72 | Anion Modulation of Ptâ€Group Metals and Electrocatalysis Applications. Chemistry - A European Journal, 2021, 27, 12257-12271. | 3.3 | 30 |

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| 73 | 3D flexible hydrogen evolution electrodes with Se-promoted molybdenum sulfide nanosheet arrays. RSC Advances, 2016, 6, 11077-11080. | 3.6 | 28 |
| 74 | Electrocatalytic Oxygen Evolution Reaction in Acidic Conditions: Recent Progress and Perspectives. ChemSusChem, 2021, 14, 4636-4657. | 6.8 | 28 |
| 75 | Duetting electronic structure modulation of Ru atoms in RuSe ₂ @NC enables more moderate H* adsorption and water dissociation for hydrogen evolution reaction. Journal of Materials Chemistry A, 2022, 10, 7637-7644. | 10.3 | 22 |
| 76 | Ni nanoparticles-graphene hybrid film: one-step electrodeposition preparation and application as highly efficient oxygen evolution reaction electrocatalyst. Journal of Applied Electrochemistry, 2014, 44, 1165-1170. | 2.9 | 20 |
| 77 | Distorted niobium-self-doped graphene in-situ grown from 2D niobium carbide for catalyzing oxygen reduction. Carbon, 2018, 139, 1144-1151. | 10.3 | 19 |
| 78 | Inâ€Situ Fabrication of Tungsten Diphosphide Nanoparticles on Tungsten foil: A Hydrogenâ€Evolution Cathode for a Wide pH Range. Energy Technology, 2016, 4, 1030-1034. | 3.8 | 11 |
| 79 | UIO-66-NH ₂ -derived mesoporous carbon used as a high-performance anode for the | 3.6 | 10 |