

Zhiyu Ren

List of Publications by Year in descending order

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51
papers

2,888
citations

172457

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182427

51
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51
docs citations

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times ranked

4742
citing authors

#	ARTICLE	IF	CITATIONS
1	Well-Ordered Large-Pore Mesoporous Anatase TiO ₂ with Remarkably High Thermal Stability and Improved Crystallinity: Preparation, Characterization, and Photocatalytic Performance. <i>Advanced Functional Materials</i> , 2011, 21, 1922-1930.	14.9	431
2	Boron-Induced Electronic Structure Reformation of CoP Nanoparticles Drives Enhanced pH-Universal Hydrogen Evolution. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 4154-4160.	13.8	221
3	NiSe _{0.85} Se Heterostructure Nanoflake Arrays on Carbon Paper as Efficient Electrocatalysts for Overall Water Splitting. <i>Small</i> , 2018, 14, e1800763.	10.0	185
4	Facile preparation of porous NiTiO ₃ nanorods with enhanced visible-light-driven photocatalytic performance. <i>Journal of Materials Chemistry</i> , 2012, 22, 16471.	6.7	176
5	A highly active oxygen evolution electrocatalyst: Ultrathin CoNi double hydroxide/CoO nanosheets synthesized via interface-directed assembly. <i>Nano Research</i> , 2016, 9, 713-725.	10.4	171
6	Interconnected 1D Co ₃ O ₄ nanowires on reduced graphene oxide for enzymeless H ₂ O ₂ detection. <i>Nano Research</i> , 2015, 8, 469-480.	10.4	129
7	Composites of small Ag clusters confined in the channels of well-ordered mesoporous anatase TiO ₂ and their excellent solar-light-driven photocatalytic performance. <i>Nano Research</i> , 2014, 7, 731-742.	10.4	102
8	Cluster-like molybdenum phosphide anchored on reduced graphene oxide for efficient hydrogen evolution over a broad pH range. <i>Chemical Communications</i> , 2016, 52, 9530-9533.	4.1	102
9	Co-vacancy-rich Co _{1-x} S nanosheets anchored on rGO for high-efficiency oxygen evolution. <i>Nano Research</i> , 2017, 10, 1819-1831.	10.4	78
10	Regulating the allocation of N and P in codoped graphene <i>via</i> supramolecular control to remarkably boost hydrogen evolution. <i>Energy and Environmental Science</i> , 2019, 12, 2697-2705.	30.8	77
11	Dual-valence nickel nanosheets covered with thin carbon as bifunctional electrocatalysts for full water splitting. <i>Journal of Materials Chemistry A</i> , 2016, 4, 7297-7304.	10.3	73
12	Co ₃ O ₄ nanosheets as a high-performance catalyst for oxygen evolution proceeding via a double two-electron process. <i>Chemical Communications</i> , 2016, 52, 6705-6708.	4.1	64
13	Phthalocyanine-mediated non-covalent coupling of carbon nanotubes with polyaniline for ultrafast NH ₃ gas sensors. <i>Journal of Materials Chemistry A</i> , 2017, 5, 24493-24501.	10.3	61
14	Hierarchical Composite of Ag/AgBr Nanoparticles Supported on Bi ₂ MoO ₆ Hollow Spheres for Enhanced Visible-Light Photocatalytic Performance. <i>ChemPlusChem</i> , 2013, 78, 117-123.	2.8	58
15	Controlled Atmosphere Corrosion Engineering toward Inhomogeneous NiFe-LDH for Energetic Oxygen Evolution. <i>ACS Nano</i> , 2022, 16, 7794-7803.	14.6	51
16	Multivalent Sn species synergistically favours the CO ₂ -into-HCOOH conversion. <i>Nano Research</i> , 2021, 14, 1053-1060.	10.4	49
17	Binary Metal Phosphides with MoP and FeP Embedded in P,N-Doped Graphitic Carbon As Electrocatalysts for Oxygen Reduction. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 11872-11884.	6.7	43
18	Vertical FeOOH nanowires grown on the carbon fiber paper as a free-standing electrode for sensitive H ₂ O ₂ detection. <i>Nano Research</i> , 2016, 9, 2260-2269.	10.4	41

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19	Stably dispersed carbon nanotubes covalently bonded to phthalocyanine cobalt for ppb-level H ₂ S sensing at room temperature. <i>Journal of Materials Chemistry A</i> , 2016, 4, 1096-1104.	10.3	40
20	Engineering a stereo-film of FeNi ₃ nanosheet-covered FeOOH arrays for efficient oxygen evolution. <i>Nanoscale</i> , 2018, 10, 10971-10978.	5.6	40
21	CoSe _x nanocrystalline-dotted CoCo layered double hydroxide nanosheets: a synergetic engineering process for enhanced electrocatalytic water oxidation. <i>Nanoscale</i> , 2017, 9, 16256-16263.	5.6	38
22	IgA response and protection following nasal vaccination of chickens with Newcastle disease virus DNA vaccine nanoencapsulated with Ag@SiO ₂ hollow nanoparticles. <i>Scientific Reports</i> , 2016, 6, 25720.	3.3	37
23	Heterophase engineering of SnO ₂ /Sn ₃ O ₄ drives enhanced carbon dioxide electrocatalytic reduction to formic acid. <i>Science China Materials</i> , 2020, 63, 2314-2324.	6.3	36
24	Copper-triggered delocalization of bismuth p-orbital favours high-throughput CO ₂ electroreduction. <i>Applied Catalysis B: Environmental</i> , 2022, 301, 120781.	20.2	36
25	Synthesis and applications of graphite carbon sphere with uniformly distributed magnetic Fe ₃ O ₄ nanoparticles (MGCSs) and MGCS@Ag, MGCS@TiO ₂ . <i>Journal of Materials Chemistry</i> , 2010, 20, 4802.	6.7	35
26	Ni ₂ P Entwined by Graphite Layers as a Low-Pt Electrocatalyst in Acidic Media for Oxygen Reduction. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 9999-10010.	8.0	34
27	Generalized Synthesis of Ultrathin Cobalt-Based Nanosheets from Metallophthalocyanine-Modulated Self-Assemblies for Complementary Water Electrolysis. <i>Small</i> , 2018, 14, 1702896.	10.0	34
28	Phytic acid-guided ultra-thin N,P co-doped carbon coated carbon nanotubes for efficient all-pH electrocatalytic hydrogen evolution. <i>Nanoscale</i> , 2019, 11, 23027-23034.	5.6	32
29	Facile Synthesis of Porous Zn ₂ Ti ₃ O ₈ Nanorods for Photocatalytic Overall Water Splitting. <i>ChemCatChem</i> , 2014, 6, 2258-2262.	3.7	30
30	Hierarchical N-Doped TiO ₂ Microspheres with Exposed (001) Facets for Enhanced Visible Light Catalysis. <i>European Journal of Inorganic Chemistry</i> , 2014, 2014, 2146-2152.	2.0	29
31	Self-Assembly-Induced Mosslike Fe ₂ O ₃ and FeP on Electro-oxidized Carbon Paper for Low-Voltage-Driven Hydrogen Production Plus Hydrazine Degradation. <i>ACS Sustainable Chemistry and Engineering</i> , 2018, 6, 15727-15736.	6.7	28
32	In Situ Catalytic Etching Strategy Promoted Synthesis of Carbon Nanotube Inlaid with Ultrasmall FeP Nanoparticles as Efficient Electrocatalyst for Hydrogen Evolution. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 12741-12749.	6.7	28
33	Fabrication of a 3D Hierarchical Flower-Like MgO Microsphere and Its Application as Heterogeneous Catalyst. <i>European Journal of Inorganic Chemistry</i> , 2012, 2012, 954-960.	2.0	27
34	Morphology-controlled two-dimensional elliptical hemisphere arrays fabricated by a colloidal crystal based micromolding method. <i>Journal of Materials Chemistry</i> , 2010, 20, 152-158.	6.7	25
35	A facile and green synthesis route towards two-dimensional TiO ₂ @Ag heterojunction structure with enhanced visible light photocatalytic activity. <i>CrystEngComm</i> , 2013, 15, 5821.	2.6	25
36	Boron-Induced Electronic Structure Reformation of CoP Nanoparticles Drives Enhanced pH-Universal Hydrogen Evolution. <i>Angewandte Chemie</i> , 2020, 132, 4183-4189.	2.0	23

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37	Solvothermal Synthesis, Characterization, and Formation Mechanism of a Single-Layer Anatase TiO ₂ Nanosheet with a Porous Structure. <i>European Journal of Inorganic Chemistry</i> , 2011, 2011, 754-760.	2.0	22
38	Manipulating Polyaniline Fibrous Networks by Doping Tetra- β -carboxyphthalocyanine Cobalt(II) for Remarkably Enhanced Ammonia Sensing. <i>Chemistry of Materials</i> , 2017, 29, 9509-9517.	6.7	21
39	MgTiO ₃ /MgTi ₂ O ₅ /TiO ₂ heterogeneous belt-junctions with high photocatalytic hydrogen production activity. <i>Nano Research</i> , 2017, 10, 295-304.	10.4	20
40	Cu-coupled Fe/Fe ₃ C covered with thin carbon as stable win-win catalysts to boost electro-Fenton reaction for brewing leachate treatment. <i>Chemosphere</i> , 2022, 293, 133532.	8.2	18
41	Single-crystalline Bi ₁₉ Br ₃ S ₂₇ nanorods with an efficiently improved photocatalytic activity. <i>CrystEngComm</i> , 2015, 17, 6120-6126.	2.6	17
42	Self-Supported NiS Nanoparticle-Coupled Ni ₂ P Nanoflake Array Architecture: An Advanced Catalyst for Electrochemical Hydrogen Evolution. <i>ChemElectroChem</i> , 2017, 4, 1341-1348.	3.4	17
43	Heterojunction Ag-TiO ₂ Nanopillars for Visible-Light-Driven Photocatalytic H ₂ Production. <i>ChemPlusChem</i> , 2014, 79, 995-1000.	2.8	15
44	Porous Palladium Nanomeshes with Enhanced Electrochemical CO ₂ into Syngas Conversion over a Wider Applied Potential. <i>ChemSusChem</i> , 2019, 12, 3304-3311.	6.8	12
45	Ag-Y ₂ O ₃ :Eu ³⁺ composite nanotubes: synthesis, tunable photoluminescence and surface-enhanced Raman scattering. <i>CrystEngComm</i> , 2013, 15, 7484.	2.6	11
46	Isolating metallophthalocyanine sites into graphene-supported microporous polyaniline enables highly efficient sensing of ammonia. <i>Journal of Materials Chemistry A</i> , 2021, 9, 4150-4158.	10.3	11
47	Tunable doping of N and S in carbon nanotubes by retarding pyrolysis-gas diffusion to promote electrocatalytic hydrogen evolution. <i>Chemical Communications</i> , 2019, 55, 10011-10014.	4.1	9
48	Direct Coupling of Phthalocyanine Cobalt(II) and Graphene via Self-Driven Layer-by-Layer Assembly for Efficient Electrochemical Detection of Catechol. <i>Journal of the Electrochemical Society</i> , 2020, 167, 027533.	2.9	7
49	Promoting Electrocatalytic Oxygen Evolution of Ultrasmall NiFe (Hydr)oxide Nanoparticles by Graphene-Support Effects. <i>ChemSusChem</i> , 2021, 14, 5508-5516.	6.8	7
50	Free-Standing Ultrathin Cobalt Nanosheets Synthesized by Means of In Situ Reduction and Interface-Directed Assembly and Their Magnetic Properties. <i>ChemPlusChem</i> , 2013, 78, 481-485.	2.8	6
51	A versatile salicylic acid precursor method for preparing titanate microspheres. <i>Science China Materials</i> , 2015, 58, 106-113.	6.3	6