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## Particulate photocatalysts for overall water splitting

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1000	Noble-metal-free CdS@MoS <sub>2</sub> core-shell nanoheterostructures for efficient and stabilized visible-light-driven H <sub>2</sub> generation. <b>2019</b> , 44, 16657-16666	18
999	Design of Heterostructured Hollow Photocatalysts for Solar-to-Chemical Energy Conversion. <b>2019</b> , 31, e1900281	191
998	Artificial photosynthesis systems for catalytic water oxidation. <b>2019</b> , 74, 3-59	24
997	Photocarving nitrogen vacancies in a polymeric carbon nitride for metal-free oxygen synthesis. <b>2019</b> , 256, 117794	44
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995	MnO <sub>x</sub> -decorated 3D porous C <sub>3</sub> N <sub>4</sub> with internal donor-acceptor motifs for efficient photocatalytic hydrogen production. <b>2019</b> , 256, 117805	50
994	Dual role of a g-C <sub>3</sub> N <sub>4</sub> /carbon intra-Schottky junction in charge carrier generation and separation for efficient solar H <sub>2</sub> production. <b>2019</b> , 9, 3493-3503	19
993	Controlled growth of ZnS/ZnO heterojunctions on porous biomass carbons via one-step carbothermal reduction enables visible-light-driven photocatalytic H <sub>2</sub> production. <b>2019</b> , 6, 2035-2042	20
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991	Red phosphorus decorated and doped TiO <sub>2</sub> nanofibers for efficient photocatalytic hydrogen evolution from pure water. <b>2019</b> , 255, 117764	102
990	Bioprocess-inspired fabrication of materials with new structures and functions. <b>2019</b> , 105, 100571	45
989	Atomically Dispersed Single Co Sites in Zeolitic Imidazole Frameworks Promoting High-Efficiency Visible-Light-Driven Hydrogen Production. <b>2019</b> , 25, 9670-9677	7
988	Facile Synthesis of Oriented Feather-like TiO <sub>2</sub> Bundle Catalysts for Efficient Photocatalytic Water Splitting. <b>2019</b> , 19, 3584-3591	11
987	Core-Shell-Structured LaTaON <sub>2</sub> Transformed from LaKNaTaO <sub>5</sub> Plates for Enhanced Photocatalytic H <sub>2</sub> Evolution. <b>2019</b> , 131, 10776-10780	4
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983	Surface Plasmon Enabling Nitrogen Fixation in Pure Water through a Dissociative Mechanism under Mild Conditions. <b>2019</b> , 141, 7807-7814	151
982	Highly Active Sb <sub>2</sub> S <sub>3</sub> -Attached MoWO <sub>3</sub> Composite Film for Enhanced Photoelectrocatalytic Water Splitting at Extremely Low Input Light Energy. <b>2019</b> , 7, 9172-9181	17
981	Insights into the Thermo-Photo Catalytic Production of Hydrogen from Water on a Low-Cost NiOx-Loaded TiO <sub>2</sub> Catalyst. <b>2019</b> , 9, 5047-5056	60
980	Two-dimensional amorphous nanomaterials: synthesis and applications. <b>2019</b> , 6, 032002	40
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977	Conjugated Polymers with Oligoethylene Glycol Side Chains for Improved Photocatalytic Hydrogen Evolution. <b>2019</b> , 13, 33-42	67
976	Three-dimensional porous g-C <sub>3</sub> N <sub>4</sub> for highly efficient photocatalytic overall water splitting. <b>2019</b> , 59, 644-650	347
975	Graphene-Based Materials as Efficient Photocatalysts for Water Splitting. <b>2019</b> , 24,	48
974	Rational design of ternary NiS/CQDs/ZnIn <sub>2</sub> S <sub>4</sub> nanocomposites as efficient noble-metal-free photocatalyst for hydrogen evolution under visible light. <b>2019</b> , 40, 335-342	65
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963	Bimetallic metal-organic frameworks-derived mesoporous Cd <sub>x</sub> Zn <sub>1-x</sub> S polyhedrons for enhanced photocatalytic hydrogen evolution. <b>2019</b> , 34, 1773-1784	14
962	Toward practical solar hydrogen production - an artificial photosynthetic leaf-to-farm challenge. <b>2019</b> , 48, 1908-1971	415
961	Crystal Facet Engineering of Photoelectrodes for Photoelectrochemical Water Splitting. <b>2019</b> , 119, 5192-5247	285
960	Role of SnS <sub>2</sub> in 2D/2D SnS <sub>2</sub> /TiO <sub>2</sub> Nanosheet Heterojunctions for Photocatalytic Hydrogen Evolution. <b>2019</b> , 2, 2144-2151	44
959	Molecular modelling and machine learning for high-throughput screening of metal-organic frameworks for hydrogen storage. <b>2019</b> , 45, 1069-1081	35
958	N-doped defective graphene decorated by strontium titanate as efficient photocatalyst for overall water splitting. <b>2019</b> , 252, 111-119	30
957	Highly efficient photocatalytic hydrogen evolution from water-soluble conjugated polyelectrolytes. <b>2019</b> , 60, 775-783	51
956	Homogeneous Doping of Substitutional Nitrogen/Carbon in TiO <sub>2</sub> Plates for Visible Light Photocatalytic Water Oxidation. <b>2019</b> , 29, 1901943	44
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934	One-pot synthesis of BaMg <sub>1/3</sub> Ta <sub>2/3</sub> O <sub>3-x</sub> Ny/Ta <sub>3</sub> N <sub>5</sub> heterostructures as H <sub>2</sub> -evolving photocatalysts for construction of visible-light-driven Z-scheme overall water splitting. <b>2019</b> , 241, 1-7	42
933	In-situ construction of coral-like porous P-doped g-C <sub>3</sub> N <sub>4</sub> tubes with hybrid 1D/2D architecture and high efficient photocatalytic hydrogen evolution. <b>2019</b> , 241, 159-166	158
932	Development of Mixed-Anion Photocatalysts with Wide Visible-Light Absorption Bands for Solar Water Splitting. <b>2019</b> , 12, 1872-1888	20
931	Engineering Charge Transfer Characteristics in Hierarchical Cu <sub>2</sub> S QDs @ ZnO Nanoneedles with p/n Heterojunctions: Towards Highly Efficient and Recyclable Photocatalysts. <b>2018</b> , 9,	18
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918	Crystalline Carbon Nitride Semiconductors for Photocatalytic Water Splitting. <b>2019</b> , 58, 6164-6175	312
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911	Promoting Photocatalytic H <sub>2</sub> Evolution on Organic-Inorganic Hybrid Perovskite Nanocrystals by Simultaneous Dual-Charge Transportation Modulation. <b>2019</b> , 4, 40-47	81
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909	Recent Developments in Graphitic Carbon Nitride Based Hydrogels as Photocatalysts. <b>2019</b> , 12, 1794-1806	70
908	Water-Dispersed Conjugated Polyelectrolyte for Visible-Light Hydrogen Production. <b>2019</b> , 3, 1800255	20
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877	Enhanced carrier separation and increased electron density in 2D heavily N-doped ZnIn <sub>2</sub> S <sub>4</sub> for photocatalytic hydrogen production. <b>2020</b> , 8, 207-217	59
876	Positively charged Pt-based cocatalysts: an orientation for achieving efficient photocatalytic water splitting. <b>2020</b> , 8, 17-26	34

875	Nonmetallic Abiotic-Biological Hybrid Photocatalyst for Visible Water Splitting and Carbon Dioxide Reduction. <b>2020</b> , 23, 100784	28
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859	In situ photo-derived MnOOH collaborating with Mn <sub>2</sub> Co <sub>2</sub> C@C dual co-catalysts boost photocatalytic overall water splitting. <b>2020</b> , 8, 17120-17127	12
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688	Characterizing photocatalysts for water splitting: from atoms to bulk and from slow to ultrafast processes. <b>2021</b> , 50, 1407-1437	27
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352	Covalent Networking of a Conjugated-Polymer Photocatalyst to Promote Exciton Diffusion in the Aqueous Phase for Efficient Hydrogen Production.. <b>2022</b> , e2200010	0
351	Achieving Record High External Quantum Efficiency >86.7% in Solar-Blind Photoelectrochemical Photodetection. 2201604	4
350	Tunable crystal structure of Cu <sub>2</sub> ZnSnS <sub>4</sub> nanocrystals for improving photocatalytic hydrogen evolution enabled by copper element regulation. <b>2022</b> , 43, 032701	1
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344	Novel 2D Zn-porphyrin metal organic frameworks revived CdS for photocatalysis of hydrogen production. <b>2022</b> , 47, 13340-13350	3
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338	Photocatalytic overall water splitting under visible light enabled by a particulate conjugated polymer loaded with iridium.. <b>2022</b> ,	4
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322	Advances in Z-scheme semiconductor photocatalysts for the photoelectrochemical applications: A review.	1
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3 <sup>15</sup>	Molecular Design of Two-Dimensional Covalent Heptazine Frameworks for Photocatalytic Overall Water Splitting under Visible Light.. 2022, 13, 3949-3956	1
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3 <sup>13</sup>	ZnIn 2 S 4 -based nanostructures in artificial photosynthesis: Insights into photocatalytic reduction toward sustainable energy production.	0
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3 <sup>11</sup>	Enhancing the Photocatalytic Hydrogen Evolution Performance of the CsPbI/MoS Heterostructure with Interfacial Defect Engineering.. 2022, 4007-4014	1
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3 <sup>07</sup>	Atomically Dispersed Janus Nickel Sites on Red Phosphorus for Photocatalytic Overall Water Splitting.. 2022,	8
3 <sup>06</sup>	An efficient photocatalytic system under visible light: in-situ growth cocatalyst Ni2P on the surface of CdS. 2022, 107822	0
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3 <sup>03</sup>	Formation of a p-n heterojunction photocatalyst by the interfacing of graphitic carbon nitride and delafossite CuGaO 2 .	0
3 <sup>02</sup>	Bi@H-TiO2/B-C3N4 heterostructure for enhanced photocatalytic hydrogen generation activity under visible light. 2022,	0
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