

Ultrathin 2D type-II p-n heterojunctions La<sub>2</sub>Ti<sub>2</sub>O<sub>7</sub>/In<sub>2</sub>S<sub>3</sub>  
and photocatalytic hydrogen evolution under visible light

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Citation Report

#	ARTICLE	IF	CITATIONS
2	Synergistic effects of multiple heterojunctions significantly enhance the photocatalytic H <sub>2</sub> evolution rate CdS/La <sub>2</sub> Ti <sub>2</sub> O <sub>7</sub> /NiS <sub>2</sub> ternary composites. <i>International Journal of Hydrogen Energy</i> , 2019, 44, 19603-19613.	3.8	27
3	Graphene oxide induced dual cocatalysts formation on manganese sulfide with enhanced photocatalytic hydrogen production from hydrogen sulfide. <i>Applied Surface Science</i> , 2019, 494, 700-707.	3.1	21
4	MOF-based In <sub>2</sub> S <sub>3</sub> -X <sub>2</sub> S <sub>3</sub> (X = Bi, Sb)@TFPT-COFs hybrid materials for enhanced photocatalytic performance under visible light. <i>Applied Surface Science</i> , 2019, 493, 41-54.	3.1	40
5	High performance hydrogen production of MoS <sub>2</sub> -modified perovskite LaNiO <sub>3</sub> under visible light. <i>Ionics</i> , 2019, 25, 4533-4546.	1.2	22
6	Double perovskite compounds A <sub>2</sub> CuWO <sub>6</sub> (A = Sr and Ba) with p-type semiconductivity for photocatalytic water oxidation under visible light illumination. <i>Inorganic Chemistry Frontiers</i> , 2019, 6, 2096-2103.	3.0	22
7	In situ exsolution of silver nanoparticles on AgTaO <sub>3</sub> -SrTiO <sub>3</sub> solid solutions as efficient plasmonic photocatalysts for water splitting. <i>Applied Catalysis B: Environmental</i> , 2019, 256, 117818.	10.8	44
8	An atomic insight into BiOBr/La <sub>2</sub> Ti <sub>2</sub> O <sub>7</sub> p-n heterojunctions: interfacial charge transfer pathway and photocatalysis mechanism. <i>Catalysis Science and Technology</i> , 2020, 10, 826-834.	2.1	28
9	Rare earth perovskite modified cobalt disulfide catalysts controlled by reaction solvent synthesis to form a p-n heterojunction. <i>Applied Surface Science</i> , 2020, 505, 143937.	3.1	22
10	ZnO-Scheme heterojunction ZnO-Au-ZnAl <sub>2</sub> O <sub>4</sub> : Bridge-type hot carrier transfer and reaction kinetics in the photodegradation of catechol. <i>Applied Surface Science</i> , 2020, 532, 147456.	3.1	30
11	Well-designed efficient charge separation in 2D/2D N doped La <sub>2</sub> Ti <sub>2</sub> O <sub>7</sub> /ZnIn <sub>2</sub> S <sub>4</sub> heterojunction through band structure/morphology regulation synergistic effect. <i>Nano Energy</i> , 2020, 78, 105401.	8.2	81
12	Photoelectrochemical Water Splitting by In <sub>2</sub> S <sub>3</sub> /In <sub>2</sub> O <sub>3</sub> Composite Nanopyramids. <i>ACS Applied Nano Materials</i> , 2020, 3, 11638-11649.	2.4	27
13	Spherical Bi <sub>2</sub> WO <sub>6</sub> /Bi <sub>2</sub> S <sub>3</sub> /MoS <sub>2</sub> n-p Heterojunction with Excellent Visible-Light Photocatalytic Reduction Cr(VI) Activity. <i>Nanomaterials</i> , 2020, 10, 1813.	1.9	25
14	A novel p-n Mn <sub>0.2</sub> Cd <sub>0.8</sub> S/NiWO <sub>4</sub> heterojunction for highly efficient photocatalytic H <sub>2</sub> production. <i>Dalton Transactions</i> , 2020, 49, 12242-12248.	1.6	27
15	Bi <sub>2</sub> O <sub>3</sub> -Sensitized TiO <sub>2</sub> Hollow Photocatalyst Drives the Efficient Removal of Tetracyclines under Visible Light. <i>Inorganic Chemistry</i> , 2020, 59, 18131-18140.	1.9	84
16	Thin-layered Photocatalysts. <i>Advanced Functional Materials</i> , 2020, 30, 1910005.	7.8	117
17	Photocatalytic properties of novel two-dimensional B <sub>4</sub> C <sub>3</sub> /g-C <sub>3</sub> N <sub>4</sub> van der Waals heterojunction with moderate bandgap and high carrier mobility: A theoretical study. <i>Applied Catalysis B: Environmental</i> , 2020, 278, 119310.	10.8	37
18	Preparation of magnetically recoverable and Z-scheme BaFe <sub>12</sub> O <sub>19</sub> /AgBr composite for degradation of 2-Mercaptobenzothiazole and Methyl orange under visible light. <i>Applied Surface Science</i> , 2020, 521, 146343.	3.1	19
19	Enhanced photoexcited carrier separation in Ta <sub>3</sub> N <sub>5</sub> /SrTaO <sub>2</sub> N (1D/0D) heterojunctions for highly efficient visible light-driven hydrogen evolution. <i>Applied Surface Science</i> , 2020, 514, 145915.	3.1	15

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21	An unexpected broad-spectral absorbed lanthanum oxychloride and lanthanum titanate heterostructure promoted photoelectrocatalytic hydrogen evolution. <i>Chemical Engineering Journal</i> , 2021, 404, 126567.	6.6	13
22	Synthesis of a novel Type-II In <sub>2</sub> S <sub>3</sub> /Bi <sub>2</sub> MoO <sub>6</sub> heterojunction photocatalyst: Excellent photocatalytic performance and degradation mechanism for Rhodamine B. <i>Separation and Purification Technology</i> , 2021, 255, 117758.	3.9	65
23	A novel noble-metal-free Mo <sub>2</sub> C-In <sub>2</sub> S <sub>3</sub> heterojunction photocatalyst with efficient charge separation for enhanced photocatalytic H <sub>2</sub> evolution under visible light. <i>Journal of Colloid and Interface Science</i> , 2021, 582, 488-495.	5.0	81
24	Two-dimensional Nanostructured Metal Oxide/Sulfide-based Photoanode for Photoelectrochemical Water Splitting. <i>Solar Rrl</i> , 2021, 5, 2000412.	3.1	24
25	Tuning Electronic Structure of 2D In <sub>2</sub> S <sub>3</sub> via P Doping and Size Controlling Toward Efficient Photoelectrochemical Water Oxidation. <i>Solar Rrl</i> , 2021, 5, .	3.1	16
26	Advances in designing heterojunction photocatalytic materials. <i>Chinese Journal of Catalysis</i> , 2021, 42, 710-730.	6.9	182
27	Construction of p-n type heterojunction for effective photo-generated electron separation and visible light hydrogen evolution. <i>International Journal of Hydrogen Energy</i> , 2021, 46, 1934-1944.	3.8	24
28	Functional facet isotype junction and semiconductor/r-GO minor Schottky barrier tailored In <sub>2</sub> S <sub>3</sub> @r-GO@(040/110)-BiVO <sub>4</sub> ternary hybrid. <i>Journal of Colloid and Interface Science</i> , 2021, 585, 519-537.	5.0	27
29	Advances in 2D/2D Z-scheme Heterojunctions for Photocatalytic Applications. <i>Solar Rrl</i> , 2021, 5, 2000397.	3.1	82
30	Two-dimensional Transition Metal Oxides and Chalcogenides for Advanced Photocatalysis: Progress, Challenges, and Opportunities. <i>Solar Rrl</i> , 2021, 5, 2000403.	3.1	28
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35	Construction of a novel 2D-2D heterojunction by coupling a covalent organic framework and In <sub>2</sub> S <sub>3</sub> for photocatalytic removal of organic pollutants with high efficiency. <i>New Journal of Chemistry</i> , 2021, 45, 15789-15800.	1.4	10
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39	Surface modification of $\text{BiOBr}/\text{TiO}_2$ by reduced $\text{AgBr}$ for solar-driven PAHs degradation: Mechanism insight and application assessment. <i>Journal of Hazardous Materials</i> , 2021, 412, 125221.	6.5	58
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43	The effect of vacuum and air annealing in the physical characteristics and photocatalytic efficiency of $\text{In}_2\text{S}_3/\text{Ag}$ thin films produced by spray pyrolysis. <i>Materials Chemistry and Physics</i> , 2021, 270, 124838.	2.0	9
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45	$\text{SrTiO}_3\text{-CaCr}_0.5\text{Nb}_0.5\text{O}_3$ solid solutions as p-type photocatalysts for Z-scheme water splitting under visible light illumination. <i>Journal of Materials Science and Technology</i> , 2021, 87, 46-53.	5.6	5
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47	Enhanced photocatalytic activity for 4-nitrophenol degradation using visible-light-driven $\text{In}_2\text{S}_3/\text{Fe}_2\text{O}_3$ composite. <i>Journal of Solid State Chemistry</i> , 2021, 303, 122461.	1.4	19
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49	Formation of hierarchical $\text{Bi}_2\text{MoO}_6/\text{In}_2\text{S}_3$ S-scheme heterojunction with rich oxygen vacancies for boosting photocatalytic $\text{CO}_2$ reduction. <i>Chemical Engineering Journal</i> , 2022, 429, 132456.	6.6	155
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52	Versatile Titanates: Classification, Property, Preparation, and Sustainable Energy Catalysis. <i>Advanced Functional Materials</i> , 2022, 32, 2108350.	7.8	14
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54	Self-assembled ultrathin closely bonded 2D/2D heterojunction for enhanced visible-light-induced photocatalytic oxidation and reaction mechanism insights. <i>Journal of Colloid and Interface Science</i> , 2022, 608, 2472-2481.	5.0	10
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58	Photocatalytic reduction of water to hydrogen by CuPbSbS <sub>3</sub> nanoflakes. Materials Today Energy, 2022, 25, 100956.	2.5	8
59	One-Pot Preparation of Binary Photocatalyst ZnO/g-C <sub>3</sub> N <sub>4</sub> Nanosheets with Enhanced Photocatalytic Activity in Dye Degradation. ChemistrySelect, 2022, 7, .	0.7	5
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66	Expediting Photocarrier Separation in Ta <sub>3</sub> N <sub>5</sub> @CaTaO <sub>2</sub> N Heterostructures with Seamless Interfaces for Photocatalytic Water Oxidation Under Visible Light. SSRN Electronic Journal, 0, , .	0.4	0
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73	Expediting photocarrier separation in Ta <sub>3</sub> N <sub>5</sub> @CaTaO <sub>2</sub> N heterostructures with seamless interfaces for photocatalytic water oxidation under visible light. Applied Catalysis B: Environmental, 2022, 317, 121712.	10.8	11
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76	One-pot in-situ hydrothermal synthesis of ternary In <sub>2</sub> S <sub>3</sub> /Nb <sub>2</sub> O <sub>5</sub> /Nb <sub>2</sub> C Schottky/S-scheme integrated heterojunction for efficient photocatalytic hydrogen production. <i>Journal of Colloid and Interface Science</i> , 2022, 628, 500-512.	5.0	147
77	Recent progress of indium-based photocatalysts: Classification, regulation and diversified applications. <i>Coordination Chemistry Reviews</i> , 2022, 473, 214819.	9.5	8
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82	Unveiling Sâ€“Scheme Charge Transfer Pathways in In <sub>2</sub> S <sub>3</sub> /Nb <sub>2</sub> O <sub>5</sub> Hybrid Nanofiber Photocatalysts for Lowâ€“Concentration CO <sub>2</sub> Hydrogenation. <i>Solar Rrl</i> , 2023, 7, .	3.1	12
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88	Semiconductor photocatalysts: A critical review highlighting the various strategies to boost the photocatalytic performances for diverse applications. <i>Advances in Colloid and Interface Science</i> , 2023, 311, 102830.	7.0	41
89	Fabrication and characterization of In <sub>2</sub> S <sub>4</sub> /COFs composite photocatalyst for efficient degradation of tetracycline. <i>Journal of Materials Science: Materials in Electronics</i> , 2023, 34, .	1.1	0
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