

Xiao-Xiang Xu

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109
papers

3,063
citations

32
h-index

51
g-index

111
ext. papers

3,709
ext. citations

9.6
avg, IF

5.93
L-index

#	Paper	IF	Citations
109	A red metallic oxide photocatalyst. <i>Nature Materials</i> , 2012 , 11, 595-8	27	370
108	g-C3N4 coated SrTiO3 as an efficient photocatalyst for H2 production in aqueous solution under visible light irradiation. <i>International Journal of Hydrogen Energy</i> , 2011 , 36, 13501-13507	6.7	202
107	Mesoporous Monocrystalline TiO2 and Its Solid-State Electrochemical Properties. <i>Chemistry of Materials</i> , 2009 , 21, 2540-2546	9.6	107
106	Hollow CaTiO3 cubes modified by La/Cr co-doping for efficient photocatalytic hydrogen production. <i>Applied Catalysis B: Environmental</i> , 2018 , 225, 139-147	21.8	83
105	Cu(II) Aliphatic Diamine Complexes for Both Heterogeneous and Homogeneous Water Oxidation Catalysis in Basic and Neutral Solutions. <i>ACS Catalysis</i> , 2016 , 6, 77-83	13.1	80
104	Photocatalytic H2 generation from spinels ZnFe2O4, ZnFeGaO4 and ZnGa2O4. <i>Catalysis Today</i> , 2013 , 199, 22-26	5.3	77
103	Ultrathin Lanthanum Tantalate Perovskite Nanosheets Modified by Nitrogen Doping for Efficient Photocatalytic Water Splitting. <i>ACS Nano</i> , 2017 , 11, 11441-11448	16.7	73
102	Photocatalytic Hydrogen Production over Chromium Doped Layered Perovskite Sr2TiO4. <i>Inorganic Chemistry</i> , 2015 , 54, 7445-53	5.1	70
101	On the existence of A-site deficiency in perovskites and its relation to the electrochemical performance. <i>Advanced Materials</i> , 2012 , 24, 528-32	24	65
100	Ultrathin 2D type-II p-n heterojunctions La2Ti2O7/In2S3 with efficient charge separations and photocatalytic hydrogen evolution under visible light illumination. <i>Applied Catalysis B: Environmental</i> , 2019 , 245, 733-742	21.8	64
99	Role of Oxygen Defects on the Photocatalytic Properties of Mg-Doped Mesoporous Ta3 N5. <i>ChemSusChem</i> , 2016 , 9, 1403-12	8.3	63
98	Efficient charge separation based on type-II g-C3N4/TiO2-B nanowire/tube heterostructure photocatalysts. <i>Dalton Transactions</i> , 2015 , 44, 13030-9	4.3	62
97	Activating Layered Perovskite Compound Sr2TiO4 via La/N Codoping for Visible Light Photocatalytic Water Splitting. <i>ACS Catalysis</i> , 2018 , 8, 3209-3221	13.1	58
96	Efficient photocatalytic hydrogen production over solid solutions Sr1-xBixTi1-xFexO3 (0 ≤ x ≤ 0.5). <i>Applied Catalysis B: Environmental</i> , 2017 , 200, 412-419	21.8	57
95	Bismuth and chromium co-doped strontium titanates and their photocatalytic properties under visible light irradiation. <i>Physical Chemistry Chemical Physics</i> , 2015 , 17, 26320-9	3.6	52
94	Donor-acceptor type triazine-based conjugated porous polymer for visible-light-driven photocatalytic hydrogen evolution. <i>Applied Catalysis B: Environmental</i> , 2019 , 257, 117935	21.8	49
93	Photocatalytic hydrogen production over solid solutions between BiFeO3 and SrTiO3. <i>Applied Surface Science</i> , 2017 , 391, 535-541	6.7	46

92	Photocatalytic hydrogen production over Aurivillius compound Bi ₃ TiNbO ₉ and its modifications by Cr/Nb co-doping. <i>Applied Catalysis B: Environmental</i> , 2017 , 217, 342-352	21.8	46
91	Boosting photocatalytic water oxidation reactions over strontium tantalum oxynitride by structural laminations. <i>Applied Catalysis B: Environmental</i> , 2018 , 228, 10-18	21.8	46
90	A high performance intermediate temperature fuel cell based on a thick oxide-carbonate electrolyte. <i>Journal of Power Sources</i> , 2009 , 194, 967-971	8.9	45
89	Zr-Doped Mesoporous TaN Microspheres for Efficient Photocatalytic Water Oxidation. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 35407-35418	9.5	45
88	Efficient photocatalytic oxygen production over Ca-modified LaTiO ₂ N. <i>Journal of Catalysis</i> , 2017 , 346, 10-20	7.3	41
87	Efficient Photocatalytic Oxygen Production over Nitrogen-Doped Sr ₄ Nb ₂ O ₉ under Visible-Light Irradiation. <i>ChemCatChem</i> , 2016 , 8, 615-623	5.2	41
86	Visible light photocatalysis by in situ growth of plasmonic Ag nanoparticles upon AgTaO ₃ . <i>International Journal of Hydrogen Energy</i> , 2015 , 40, 3672-3678	6.7	39
85	Efficient Photocatalytic Hydrogen Production over Rh-Doped Inverse Spinel Zn ₂ TiO ₄ . <i>ChemCatChem</i> , 2016 , 8, 2289-2295	5.2	38
84	Role of surface composition upon the photocatalytic hydrogen production of Cr-doped and La/Cr-codoped SrTiO ₃ . <i>Journal of Materials Science</i> , 2016 , 51, 6464-6473	4.3	37
83	Efficient photocatalytic hydrogen production over La/Rh co-doped Ruddlesden-Popper compound Sr ₂ TiO ₄ . <i>Applied Catalysis B: Environmental</i> , 2017 , 210, 149-159	21.8	36
82	Photocatalytic H ₂ production from spinels ZnGa ₂ CrO ₄ (000) solid solutions. <i>Journal of Solid State Chemistry</i> , 2015 , 230, 95-101	3.3	36
81	Activating BaTaO ₂ N by Ca modifications and cobalt oxide for visible light photocatalytic water oxidation reactions. <i>Applied Catalysis B: Environmental</i> , 2018 , 237, 373-381	21.8	36
80	Zr doped mesoporous LaTaON ₂ for efficient photocatalytic water splitting. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 5702-5711	13	35
79	A new approach to inducing Ti ³⁺ in anatase TiO ₂ for efficient photocatalytic hydrogen production. <i>Chinese Journal of Catalysis</i> , 2018 , 39, 510-516	11.3	34
78	One-pot photoreforming of cellulosic biomass waste to hydrogen by merging photocatalysis with acid hydrolysis. <i>Applied Catalysis A: General</i> , 2018 , 563, 73-79	5.1	34
77	Intermediate temperature stable proton conductors based upon SnP ₂ O ₇ , including additional H ₃ PO ₄ . <i>Journal of Materials Chemistry</i> , 2010 , 20, 7827		32
76	One-step synthetic approach for core-shelled black anatase titania with high visible light photocatalytic performance. <i>Chemical Engineering Journal</i> , 2016 , 299, 120-125	14.7	32
75	Structural dependence of photocatalytic hydrogen production over La/Cr co-doped perovskite compound ATiO ₃ (A = Ca, Sr and Ba). <i>International Journal of Hydrogen Energy</i> , 2017 , 42, 23539-23547	6.7	31

74	A stable and thin BaCe _{0.7} Nb _{0.1} Gd _{0.2} O ₃ membrane prepared by simple all-solid-state process for SOFC. <i>Journal of Power Sources</i> , 2009 , 187, 403-406	8.9	31
73	Cation ordering/disordering effects upon photocatalytic activity of CrNbO ₄ , CrTaO ₄ , Sr ₂ CrNbO ₆ and Sr ₂ CrTaO ₆ . <i>International Journal of Hydrogen Energy</i> , 2016 , 41, 1550-1558	6.7	28
72	The chemical stability and conductivity of BaCe _{0.9} YxNb _{0.1} O ₃ proton-conductive electrolyte for SOFC. <i>Materials Research Bulletin</i> , 2009 , 44, 1474-1480	5.1	28
71	Ruddlesden-Popper compound Sr ₂ TiO ₄ co-doped with La and Fe for efficient photocatalytic hydrogen production. <i>Journal of Catalysis</i> , 2018 , 359, 112-121	7.3	27
70	A Highly Active and Robust Copper-Based Electrocatalyst toward Hydrogen Evolution Reaction with Low Overpotential in Neutral Solution. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 30205-30211	9.5	27
69	Proton conductivity of potassium doped barium zirconates. <i>Journal of Solid State Chemistry</i> , 2010 , 183, 93-98	3.3	27
68	Structural dependence of the photocatalytic properties of double perovskite compounds A ₂ InTaO ₆ (A = Sr or Ba) doped with nickel. <i>Physical Chemistry Chemical Physics</i> , 2016 , 18, 21491-9	3.6	27
67	Defect management and efficient photocatalytic water oxidation reaction over Mg modified SrNbO ₂ N. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 10947-10957	13	27
66	Ruddlesden-Popper compounds in the double-perovskite family Sr ₂ FeTaO ₆ (SrO) _n (n = 0, 1 and 2) and their photocatalytic properties. <i>Applied Catalysis B: Environmental</i> , 2017 , 206, 35-43	21.8	26
65	In situ exsolution of silver nanoparticles on AgTaO ₃ -SrTiO ₃ solid solutions as efficient plasmonic photocatalysts for water splitting. <i>Applied Catalysis B: Environmental</i> , 2019 , 256, 117818	21.8	25
64	Quinary wurtzite Zn-Ga-Ge-N-O solid solutions and their photocatalytic properties under visible light irradiation. <i>Scientific Reports</i> , 2016 , 6, 19060	4.9	24
63	Homologous Compounds ZnInO (n = 4, 5, and 7) Containing Laminated Functional Groups as Efficient Photocatalysts for Hydrogen Production. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 28700-28708	9.5	23
62	Amorphous Semiconductor Nanowires Created by Site-Specific Heteroatom Substitution with Significantly Enhanced Photoelectrochemical Performance. <i>ACS Nano</i> , 2016 , 10, 7882-91	16.7	22
61	Enabling efficient visible light photocatalytic water splitting over SrTaO ₂ N by incorporating Sr in its B site. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 20760-20768	13	20
60	Preparation of 3D ordered mesoporous anatase TiO ₂ and their photocatalytic activity. <i>Rare Metals</i> , 2019 , 38, 453-458	5.5	19
59	In situ fabrication of two-dimensional g-CN/BaTaO nanosheet heterostructures with efficient charge separations and photocatalytic hydrogen evolution under visible light illumination. <i>Dalton Transactions</i> , 2018 , 47, 4360-4367	4.3	19
58	Actualizing efficient photocatalytic water oxidation over SrTaO ₂ N by Na modification. <i>Catalysis Science and Technology</i> , 2017 , 7, 4640-4647	5.5	19
57	Ruddlesden-Popper compounds (SrO)(LaFeO ₃) _n (n = 1 and 2) as p-type semiconductors for photocatalytic hydrogen production. <i>Electrochimica Acta</i> , 2017 , 252, 138-146	6.7	19

56	Proton conductivity of Al(H ₂ PO ₄) ₃ H ₃ PO ₄ composites at intermediate temperature. <i>Solid State Ionics</i> , 2009 , 180, 343-350	3.3	17
55	Au nanocrystals decorated TiO ₂ nanotubes for photocatalytic nitrogen fixation into ammonia. <i>Inorganic Chemistry Frontiers</i> , 2020 , 7, 620-624	6.8	17
54	An investigation of crystal structure, surface area and surface chemistry of strontium niobate and their influence on photocatalytic performance. <i>Dalton Transactions</i> , 2013 , 42, 7880-7	4.3	16
53	Double perovskite compounds A ₂ CuWO ₆ (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	6.8	15
52	Mg modified BaTaO ₂ N as an efficient visible-light-active photocatalyst for water oxidation. <i>Journal of Catalysis</i> , 2020 , 383, 135-143	7.3	15
51	SrTaO ₂ N-CaTaO ₂ N solid solutions as efficient visible light active photocatalysts for water oxidation and reduction. <i>Applied Catalysis B: Environmental</i> , 2020 , 263, 118315	21.8	13
50	Switching on efficient photocatalytic water oxidation reactions over CaNbO ₂ N by Mg modifications under visible light illumination. <i>Applied Catalysis B: Environmental</i> , 2019 , 245, 10-19	21.8	13
49	Roadmap on inorganic perovskites for energy applications. <i>JPhys Energy</i> , 2021 , 3, 031502	4.9	13
48	In-situ High-Temperature XRD and FTIR for Calcite, Dolomite and Magnesite: Anharmonic Contribution to the Thermodynamic Properties. <i>Journal of Earth Science (Wuhan, China)</i> , 2019 , 30, 964-976	7.2	12
47	Layered Perovskite Compound NaLaTiO ₄ Modified by Nitrogen Doping as a Visible Light Active Photocatalyst for Water Splitting. <i>ACS Catalysis</i> , 2020 , 10, 9889-9898	13.1	12
46	The effect of single atom substitution (O, S or Se) on photocatalytic hydrogen evolution for triazine-based conjugated porous polymers. <i>Journal of Materials Chemistry C</i> , 2020 , 8, 8887-8895	7.1	11
45	A fuel cell operating between room temperature and 250 °C based on a new phosphoric acid based composite electrolyte. <i>Journal of Power Sources</i> , 2010 , 195, 6983-6987	8.9	11
44	Ba-Modified LaTiO ₂ N as an Efficient Visible Light Active Photocatalyst for Water Oxidation. <i>ACS Sustainable Chemistry and Engineering</i> , 2020 , 8, 9641-9649	8.3	10
43	Visible light active titanoniobate nanosheets for efficient photocatalytic H ₂ production from water. <i>Journal of Catalysis</i> , 2019 , 377, 409-418	7.3	10
42	Syntheses and proton conductivity of mesoporous Nd ₂ O ₃ BiO ₂ and NdOClBiO ₂ composites. <i>Journal of Materials Science</i> , 2012 , 47, 2146-2154	4.3	10
41	Perovskite Oxynitride Solid Solutions of LaTaON-CaTaON with Greatly Enhanced Photogenerated Charge Separation for Solar-Driven Overall Water Splitting. <i>Advanced Science</i> , 2021 , 8, 2003343	13.6	10
40	Surface ligand mediated growth of CuPt nanorods. <i>CrystEngComm</i> , 2014 , 16, 1714	3.3	9
39	A stable NH ₄ PO ₃ -glass proton conductor for intermediate temperature fuel cells. <i>Solid State Ionics</i> , 2011 , 192, 108-112	3.3	9

38	Stability and conductivity study of NH ₄ PO ₃ BTFE composites at intermediate temperatures. <i>Journal of Alloys and Compounds</i> , 2009 , 480, 874-877	5.7	9
37	Fluorination over Cr doped layered perovskite Sr ₂ TiO ₄ for efficient photocatalytic hydrogen production under visible light illumination. <i>Journal of Energy Chemistry</i> , 2020 , 51, 30-38	12	9
36	Selective Cocatalyst Deposition on ZnTiO _N Hollow Nanospheres with Efficient Charge Separation for Solar-Driven Overall Water Splitting. <i>Small</i> , 2021 , 17, e2100084	11	8
35	Visible-near-infrared-light-driven selective oxidation of alcohols over nanostructured Cu doped SrTiO ₃ in water under mild condition. <i>Journal of Catalysis</i> , 2021 , 399, 142-149	7.3	8
34	Steering accessible oxygen vacancies for alcohol oxidation over defective Nb ₂ O ₅ under visible light illumination. <i>Applied Catalysis B: Environmental</i> , 2021 , 298, 120584	21.8	8
33	Triggering efficient photocatalytic water oxidation reactions over BaNbO ₂ N by incorporating Ca at B site. <i>Journal of the American Ceramic Society</i> , 2019 , 102, 6194-6201	3.8	7
32	MgTiO spinel modified by nitrogen doping as a Visible-Light-Active photocatalyst for antibacterial activity. <i>Chemical Engineering Journal</i> , 2021 , 410, 128410	14.7	7
31	Switching on wide visible light photocatalytic activity over Mg ₄ Ta ₂ O ₉ by nitrogen doping for water oxidation and reduction. <i>Journal of Catalysis</i> , 2019 , 377, 455-464	7.3	6
30	Enhanced intrinsic white-light emission upon near-UV excitation by crystal engineering of cationic lead bromide layered materials. <i>Journal of Materials Chemistry C</i> , 2019 , 7, 7090-7095	7.1	6
29	Zr modified SrNbO ₂ N as an active photocatalyst for water oxidation under visible light illumination. <i>Inorganic Chemistry Frontiers</i> , 2020 , 7, 2629-2636	6.8	6
28	Efficient and robust visible light photocatalytic H ₂ production based on CdSe quantum dots sensitized titania. <i>International Journal of Hydrogen Energy</i> , 2017 , 42, 19877-19884	6.7	6
27	LaTaON Mesoporous Single Crystals for Efficient Photocatalytic Water Oxidation and Z-Scheme Overall Water Splitting. <i>ACS Nano</i> , 2021 ,	16.7	6
26	LaTaON ₂ -SrZrO ₃ solid solutions with tunable band gap for photocatalytic water oxidation under visible light illumination. <i>Journal of Catalysis</i> , 2020 , 390, 57-66	7.3	6
25	Reduced 3d Transition Metal Oxides Work as Solid-State Sources of Solvated Electrons and Directly Inject Electrons into Water for H ₂ Production under Mild Thermal or IR Excitation. <i>Advanced Sustainable Systems</i> , 2018 , 2, 1700139	5.9	4
24	Synthesis of Dendritic Nano-Sized Nickel for use as Anode Material in an Alkaline Membrane Fuel Cell. <i>Fuel Cells</i> , 2009 , 10, n/a-n/a	2.9	4
23	Efficient, broadband self-trapped white-light emission from haloplumbate-based metal-organic frameworks. <i>Chemical Communications</i> , 2020 , 56, 10078-10081	5.8	4
22	Aurivillius compound Bi ₅ Ti ₃ CrO ₁₅ as a visible-light-active photocatalyst for hydrogen production from water. <i>Journal of Energy Chemistry</i> , 2021 , 62, 572-580	12	4
21	SrTaO ₂ N co-doped with La/Zr as promising photocatalysts for water reduction under visible light illumination. <i>Inorganic Chemistry Frontiers</i> , 2020 , 7, 2343-2351	6.8	3

20	Gold nanocrystal anchored In ₂ O ₃ hollow nanospheres for N ₂ photofixation to ammonia. <i>Inorganic Chemistry Frontiers</i> , 2020 , 7, 2778-2782	6.8	3
19	Photocatalytic Hydrogen Evolution Based on Nitrogen-Containing Donor-Acceptor (D/A) Organic Conjugated Small Molecules. <i>ACS Sustainable Chemistry and Engineering</i> , 2020 , 8, 14253-14261	8.3	3
18	Visible light photocatalytic water oxidation over complex perovskites Sr ₃ B ₂ Nb ₂ O ₉ (B = Mg, Ca and Sr) doped with nitrogen. <i>Inorganic Chemistry Frontiers</i> , 2019 , 6, 3569-3576	6.8	3
17	Layered lithium niobium (III) oxide LiNbO ₂ as a visible-light-driven photocatalyst for H ₂ evolution. <i>JPhys Energy</i> , 2019 , 1, 015001	4.9	3
16	Liberating photocarriers in mesoporous single-crystalline SrTaO ₂ N for efficient solar water splitting. <i>Applied Catalysis B: Environmental</i> , 2022 , 304, 120934	21.8	2
15	A novel electrochemically enhanced homogeneous PMS-heterogeneous CoFeO synergistic catalysis for the efficient removal of levofloxacin. <i>Journal of Hazardous Materials</i> , 2021 , 127651	12.8	2
14	Ge-Modified Ga _{1-x} Zn _x O wurtzite solid solutions with high Zn content for efficient photocatalytic H ₂ evolution from water under visible light illumination. <i>Inorganic Chemistry Frontiers</i> , 2020 , 7, 3443-3447	6.8	2
13	Visible-light-driven photocatalytic water oxidation over LaNbON ₂ /BaMg ₂ /3Nb ₁ /3O ₃ solid solutions. <i>Inorganic Chemistry Frontiers</i> , 2021 , 8, 2365-2372	6.8	2
12	Stable and efficient solar-driven photoelectrochemical water splitting into H and O based on a BaTaON photoanode decorated with CoO microflowers. <i>Chemical Communications</i> , 2021 , 57, 4412-4415	5.8	2
11	A bias-free CuBi ₂ O ₄ /CuWO ₄ tandem cell for solar-driven water splitting. <i>Inorganic Chemistry Frontiers</i> , 2021 , 8, 3863-3870	6.8	2
10	Mesoporous single-crystalline SrNbO ₂ N: Expediting charge transportation to advance solar water splitting. <i>Nano Energy</i> , 2022 , 95, 107059	17.1	2
9	A wide visible light active photocatalyst Mg ₅ Ta ₄ O _{15-x} N _y for water oxidation and reduction. <i>International Journal of Hydrogen Energy</i> , 2019 , 44, 28173-28183	6.7	1
8	LaTaON ₂ /BaTaO ₂ N solid solutions for photocatalytic water oxidation. <i>Inorganic Chemistry Frontiers</i> , 2021 , 8, 3723-3732	6.8	1
7	(NH ₄) ₃ PW ₁₂ O ₄₀ -H ₃ PO ₄ composites as efficient proton conductors at intermediate temperatures. <i>Journal of Materials Science and Technology</i> , 2020 , 37, 128-134	9.1	0
6	SrTiO ₃ -CaCr _{0.5} Nb _{0.5} 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	9.1	0
5	Expediting H ₂ Evolution over MAPbI ₃ with a Nonnoble Metal Cocatalyst Mo ₂ C under Visible Light. <i>Energy Material Advances</i> , 2022 , 2022, 1-10	1	0
4	Fuel Cells and the Hydrogen Economy. <i>World Scientific Series in Current Energy Issues</i> , 2017 , 215-247	0.2	
3	Nitrogen-doped LaZrTa ₃ O ₁₁ as a visible light-active photocatalyst for water-reduction and -oxidation reactions. <i>Inorganic Chemistry Frontiers</i> , 2020 , 7, 2669-2675	6.8	

2 Fuel Cells and the Hydrogen Economy. *Materials and Energy*, **2013**, 427-454

1 Fuel Cells and the Hydrogen Economy. *World Scientific Series in Current Energy Issues*, **2017**, 215-247 0.2