Fa-tang Li

List of Publications by Year
in descending order

85 papers	7,007 citations	81839 39 h-index	56687 83 g-index
85 all docs	85 docs citations	85 times ranked	7802 citing authors

#	Article	IF	Citations
1	In-situ construction of sequential heterostructured CoS/CdS/CuS for building â€œelectron-welcome zoneâ€•to enhance solar-to-hydrogen conversion. Applied Catalysis B: Environmental, 2022, 300, 120763.	10.8	38
2	Promoting photocatalytic CO2 reduction to CH4 via a combined strategy of defects and tunable hydroxyl radicals. Journal of Colloid and Interface Science, 2022, 606, 1477-1487.	5.0	22
3	Unraveling the importance between electronic intensity and oxygen vacancy on photothermocatalytic toluene oxidation over CeO2. Chemical Engineering Journal, 2022, 433, 134619.	6.6	31
4	Construction of Dual-Defective Al₂O₃/Bi1₂O₁₇Cl₂ Heterojunctions for Enhanced Photocatalytic Molecular Oxygen Activation via Defect Coupling and Charge Separation. Industrial & Engineering Chemistry Research, 2022, 61, 441-452.	1.8	7
5	Encapsulating Nâ€‘doped graphite carbon in MoO2 as a novel cocatalyst for boosting photocatalytic hydrogen evolution. Journal of Colloid and Interface Science, 2022, 623, 267-276.	5.0	11
6	Tuning electronic structure via CoS clusters for visual photocatalytic H2 production and mechanism insight. Chemical Engineering Journal, 2022, 446, 137399.	6.6	12
7	Construction of Î²-Bi2O3/Bi2O2CO3 heterojunction photocatalyst for deep understanding the importance of separation efficiency and valence band position. Journal of Hazardous Materials, 2021, 401, 123262.	6.5	47
8	One-step synthesis of defected Bi2Al4O9/Î²-Bi2O3 heterojunctions for photocatalytic reduction of CO2 to CO. Green Energy and Environment, 2021, 6, 244-252.	4.7	35
9	Rational design of stratified material with spatially separated catalytic sites as an efficient overall water-splitting photocatalyst. Chinese Journal of Catalysis, 2021, 42, 1040-1050.	6.9	20
10	The simultaneous adsorption, activation and in situ reduction of carbon dioxide over Au-loading BiOCl with rich oxygen vacancies. Nanoscale, 2021, 13, 2585-2592.	2.8	41
11	Strainâ€Engineered Nanoâ€Ferroelectrics for Highâ€Efficiency Piezocatalytic Overall Water Splitting. Angewandte Chemie - International Edition, 2021, 60, 16019-16026.	7.2	96
12	Strainâ€Engineered Nanoâ€Ferroelectrics for Highâ€Efficiency Piezocatalytic Overall Water Splitting. Angewandte Chemie, 2021, 133, 16155-16162.	1.6	16
13	Construction of adjustable dominant {314} facet of Bi5O7I and facet-oxygen vacancy coupling dependent adsorption and photocatalytic activity. Applied Catalysis B: Environmental, 2021, 289, 120041.	10.8	23
14	Introduction of crystalline hexagonal-C3N4 into g-C3N4 with enhanced charge separation efficiency. Applied Surface Science, 2021, 559, 149876.	3.1	17
15	Recent advances in molecular oxygen activation via photocatalysis and its application in oxidation reactions. Chemical Engineering Journal, 2021, 421, 129915.	6.6	71
16	Reverse construction of dominant/secondary facets in Bi24O31Br10 photocatalysts for boosting electronic transfer. Chemical Communications, 2021, 57, 9676-9679.	2.2	1
17	A one-step synthesis of hierarchical porous CoFe-layered double hydroxide nanosheets with optimized composition for enhanced oxygen evolution electrocatalysis. Inorganic Chemistry Frontiers, 2020, 7, 737-745.	3.0	35
18	Simultaneous construction of dual-site phosphorus modified g-C3N4 and its synergistic mechanism for enhanced visible-light photocatalytic hydrogen evolution. Applied Surface Science, 2020, 517, 146192.	3.1	29

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19	In situ synthesis of Cl-doped Bi₂O₂CO₃ and its enhancement of photocatalytic activity by inducing generation of oxygen vacancies. Inorganic Chemistry Frontiers, 2020, 7, 2969-2978.	3.0	23
20	Low-Temperature Methane Oxidation Triggered by Peroxide Radicals over Noble-Metal-Free MgO Catalyst. ACS Applied Materials & Interfaces, 2020, 12, 21761-21771.	4.0	18
21	Recent advances in surface and interface design of photocatalysts for the degradation of volatile organic compounds. Advances in Colloid and Interface Science, 2020, 284, 102275.	7.0	30
22	Nanoâ€Ferroelectric for High Efficiency Overall Water Splitting under Ultrasonic Vibration. Angewandte Chemie - International Edition, 2019, 58, 15076-15081.	7.2	185
23	Nanoâ€Ferroelectric for High Efficiency Overall Water Splitting under Ultrasonic Vibration. Angewandte Chemie, 2019, 131, 15220-15225.	1.6	15
24	Simultaneous Phosphorylation and Bi Modification of BiOBr for Promoting Photocatalytic CO₂ Reduction. ACS Sustainable Chemistry and Engineering, 2019, 7, 14953-14961.	3.2	81
25	Plasmonic-enhanced ferroelectric photovoltaic effect in 0â€“3 type BaTiO3-Au ceramics. Journal of Alloys and Compounds, 2019, 785, 584-589.	2.8	9
26	Extractive/catalytic oxidative mechanisms over [Hnmp]ClÂ·xFeCl₃ ionic liquids towards the desulfurization of model oils. New Journal of Chemistry, 2019, 43, 7725-7732.	1.4	19
27	Surface P atom grafting of g-C₃N₄ for improved local spatial charge separation and enhanced photocatalytic H₂ production. Journal of Materials Chemistry A, 2019, 7, 7628-7635.	5.2	50
28	Metalloid Ni2P and its behavior for boosting the photocatalytic hydrogen evolution of CaIn2S4. International Journal of Hydrogen Energy, 2018, 43, 219-228.	3.8	82
29	Comparison of importance between separation efficiency and valence band position: The case of heterostructured Bi3O4Br/Î±-Bi2O3 photocatalysts. Applied Catalysis B: Environmental, 2018, 224, 841-853.	10.8	99
30	Fabrication of two-dimensional Ni2P/ZnIn2S4 heterostructures for enhanced photocatalytic hydrogen evolution. Chemical Engineering Journal, 2018, 353, 15-24.	6.6	194
31	Ultrathin porous nanosheet-assembled hollow cobalt nickel oxide microspheres with optimized compositions for efficient oxygen evolution reaction. Inorganic Chemistry Frontiers, 2018, 5, 1886-1893.	3.0	21
32	Enhanced Schottky effect of a 2Dâ€“2D CoP/g-C₃N₄ interface for boosting photocatalytic H₂ evolution. Nanoscale, 2018, 10, 12315-12321.	2.8	174
33	Synthesis of {111} Facet-Exposed MgO with Surface Oxygen Vacancies for Reactive Oxygen Species Generation in the Dark. ACS Applied Materials & Interfaces, 2017, 9, 12687-12693.	4.0	115
34	One-step synthesis, electronic structure, and photocatalytic activity of earth-abundant visible-light-driven FeAl₂O₄. Physical Chemistry Chemical Physics, 2017, 19, 9392-9401.	1.3	22
35	Ti3C2 MXene co-catalyst on metal sulfide photo-absorbers for enhanced visible-light photocatalytic hydrogen production. Nature Communications, 2017, 8, 13907.	5.8	1,496
36	Z-scheme electronic transfer of quantum-sized Î±-Fe2O3 modified g-C3N4 hybrids for enhanced photocatalytic hydrogen production. International Journal of Hydrogen Energy, 2017, 42, 28327-28336.	3.8	69

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37	Deep insight into the photocatalytic activity and electronic structure of amorphous earth-abundant MgAl₂O₄. Inorganic Chemistry Frontiers, 2017, 4, 1832-1840.	3.0	26
38	Construction of g-C 3 N 4 /Al 2 O 3 hybrids via in-situ acidification and exfoliation with enhanced photocatalytic activity. Applied Surface Science, 2017, 394, 340-350.	3.1	39
39	One-step construction of {001} facet-exposed BiOCl hybridized with Al₂O₃ for enhanced molecular oxygen activation. Catalysis Science and Technology, 2016, 6, 7985-7995.	2.1	45
40	A Chelation Strategy for In-situ Constructing Surface Oxygen Vacancy on {001} Facets Exposed BiOBr Nanosheets. Scientific Reports, 2016, 6, 24918.	1.6	97
41	Room temperature synthesis of Bi₄O₅I₂ and Bi₅O₇I ultrathin nanosheets with a high visible light photocatalytic performance. Dalton Transactions, 2016, 45, 7720-7727.	1.6	95
42	Synchronous surface hydroxylation and porous modification of g-C3N4 for enhanced photocatalytic H2 evolution efficiency. International Journal of Hydrogen Energy, 2016, 41, 3888-3895.	3.8	38
43	Introduction of CoCl₂Â·6H₂O into Co₃O₄ for enhancement of hydroxyl radicals and effective charge separation. Dalton Transactions, 2016, 45, 2444-2453.	1.6	14
44	Structure Modification Function of gâ€€₃N₄ for Al₂O₃ in the In Situ Hydrothermal Process for Enhanced Photocatalytic Activity. Chemistry - A European Journal, 2015, 21, 10149-10159.	1.7	74
45	Construction of amorphous TiO2/BiOBr heterojunctions via facets coupling for enhanced photocatalytic activity. Journal of Hazardous Materials, 2015, 292, 126-136.	6.5	166
46	An inexpensive N-methyl-2-pyrrolidone-based ionic liquid as efficient extractant and catalyst for desulfurization of dibenzothiophene. Chemical Engineering Journal, 2015, 274, 192-199.	6.6	91
47	Solution combustion synthesis of metal oxide nanomaterials for energy storage and conversion. Nanoscale, 2015, 7, 17590-17610.	2.8	312
48	The synergy between Ti species and g-C₃N₄ by doping and hybridization for the enhancement of photocatalytic H₂ evolution. Dalton Transactions, 2015, 44, 17859-17866.	1.6	20
49	Synthesis and characterization of BiOI/montmorillonite composites with high visible light photocatalytic activity. Russian Journal of Physical Chemistry A, 2015, 89, 2313-2319.	0.1	6
50	Facile synthesis of flower-like BiOI hierarchical spheres at room temperature with high visible-light photocatalytic activity. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2015, 193, 112-120.	1.7	26
51	Ionic liquid self-combustion synthesis of BiOBr/Bi₂₄O₃₁Br₁₀heterojunctions with exceptional visible-light photocatalytic performances. Nanoscale, 2015, 7, 1116-1126.	2.8	173
52	Enhanced visible-light photocatalytic activity of active Al2O3/g-C3N4 heterojunctions synthesized via surface hydroxyl modification. Journal of Hazardous Materials, 2015, 283, 371-381.	6.5	241
53	Precipitation Synthesis of Mesoporous Photoactive Al₂O₃ for Constructing g-C₃N₄-Based Heterojunctions with Enhanced Photocatalytic Activity. Industrial & Engineering Chemistry Research, 2014, 53, 19540-19549.	1.8	44
54	Ionic-liquid-assisted synthesis of high-visible-light-activated Nâ€“Bâ€“F-tri-doped mesoporous TiO2 via a microwave route. Applied Catalysis B: Environmental, 2014, 144, 442-453.	10.8	113

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55	In situ one-step combustion synthesis of Bi2O3/Bi2WO6 heterojunctions with notable visible light photocatalytic activities. Materials Letters, 2014, 124, 1-3.	1.3	33
56	One-step combustion synthesis of Î²-Bi2O3-NiO/Ni composites and their visible light photocatalytic performance. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2014, 186, 41-47.	1.7	11
57	In-situ one-step synthesis of novel BiOCl/Bi24O31Cl10 heterojunctions via self-combustion of ionic liquid with enhanced visible-light photocatalytic activities. Applied Catalysis B: Environmental, 2014, 150-151, 574-584.	10.8	152
58	Facile Ionic Liquid Combustion Synthesis and Visible-light Photocatalytic Ability of Mesoporous FeAl2O4 with High Specific Surface Area. Chemistry Letters, 2014, 43, 1743-1745.	0.7	8
59	Novel BiOClâ€“C3N4 heterojunction photocatalysts: In situ preparation via an ionic-liquid-assisted solvent-thermal route and their visible-light photocatalytic activities. Chemical Engineering Journal, 2013, 234, 361-371.	6.6	290
60	TiO2/SBA-15 composites prepared using H2TiO3 by hydrothermal method and its photocatalytic activity. Materials Letters, 2013, 99, 38-41.	1.3	28
61	In Situ Microwave-Assisted Synthesis of Porous N-TiO₂/g-C₃N₄ Heterojunctions with Enhanced Visible-Light Photocatalytic Properties. Industrial & Engineering Chemistry Research, 2013, 52, 17140-17150.	1.8	338
62	One-Step Oxidative Desulfurization of Dibenzothiophene Using Cyclohexanone Peroxide in N-Alkyl-imidazoliumâ€“Based Ionic Liquid Extraction Systems. Petroleum Science and Technology, 2012, 30, 385-392.	0.7	9
63	Photocatalytic oxidative desulfurization of dibenzothiophene under simulated sunlight irradiation with mixed-phase Fe2O3 prepared by solution combustion. Catalysis Science and Technology, 2012, 2, 1455.	2.1	77
64	A realâ€time Mooneyâ€viscosity prediction model of the mixed rubber based on the Independent Component Regressionâ€Gaussian Process algorithm. Journal of Chemometrics, 2012, 26, 557-564.	0.7	19
65	Synthesis and photocatalytic performances of the TiO2 pillared montmorillonite. Journal of Hazardous Materials, 2012, 235-236, 186-193.	6.5	100
66	N-doped P25 TiO2â€“amorphous Al2O3 composites: One-step solution combustion preparation and enhanced visible-light photocatalytic activity. Journal of Hazardous Materials, 2012, 239-240, 118-127.	6.5	123
67	Preparation of TiO₂ in Ionic Liquid via Microwave Radiation and in Situ Photocatalytic Oxidative Desulfurization of Diesel Oil. Energy & Fuels, 2012, 26, 6777-6782.	2.5	70
68	Deep extractive and oxidative desulfurization of dibenzothiophene with C5H9NOÂ·SnCl2 coordinated ionic liquid. Journal of Hazardous Materials, 2012, 205-206, 164-170.	6.5	110
69	Facile preparation of porous LaFeO3 nanomaterial by self-combustion of ionic liquids. Materials Letters, 2011, 65, 406-408.	1.3	51
70	Solution combustion synthesis and visible light-induced photocatalytic activity of mixed amorphous and crystalline MgAl2O4 nanopowders. Chemical Engineering Journal, 2011, 173, 750-759.	6.6	128
71	Oxidation of Thiophene over Modified Alumina Catalyst under Mild Conditions. Energy & Fuels, 2010, 24, 3443-3445.	2.5	12
72	Preparation of Ca-doped LaFeO3 nanopowders in a reverse microemulsion and their visible light photocatalytic activity. Materials Letters, 2010, 64, 223-225.	1.3	122

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73	Deep Extractive Desulfurization of Gasoline with xEt₃NHClÂ·FeCl₃ Ionic Liquids. Energy & Fuels, 2010, 24, 4285-4289.	2.5	88
74	The Photooxidative Desulfurization of Thiophene with Tetrabutylammonium Bromide as a Phase Transfer Catalyst. Petroleum Science and Technology, 2010, 28, 1140-1146.	0.7	4
75	Optimization of Oxidative Desulfurization of Dibenzothiophene Using a Coordinated Ionic Liquid as Catalytic Solvent. Petroleum Science and Technology, 2009, 27, 1907-1918.	0.7	15
76	Photosensitized Oxidative Desulfurization of Thiophene by Riboflavin. , 2009, , .		0
77	Optimization of oxidative desulfurization of dibenzothiophene using acidic ionic liquid as catalytic solvent. Journal of Fuel Chemistry and Technology, 2009, 37, 194-198.	0.9	73
78	Desulfurization of dibenzothiophene by chemical oxidation and solvent extraction with Me3NCH2C6H5ClÂ·2ZnCl2 ionic liquid. Green Chemistry, 2009, 11, 883.	4.6	127
79	Study on photosensitized oxidative desulfurization of thiophene by riboflavin. Journal of Fuel Chemistry and Technology, 2008, 36, 161-164.	0.9	8
80	Photochemical Oxidation of Thiophene by O₂ in an Oil/Acetonitrile Twoâ€Phase Extraction System. Annals of the New York Academy of Sciences, 2008, 1140, 383-388.	1.8	5
81	Oxidative Desulfurization of Thiophene Catalyzed by (C₄H₉)₄NBrÂ·2C₆H₁₁NO Coordinated Ionic Liquid. Energy & Fuels, 2008, 22, 3065-3069.	2.5	94
82	Kinetics and Mechanism of the Photo-oxidation of Thiophene by O2 Adsorbed on Molecular Sieves. Chemical Research in Chinese Universities, 2008, 24, 96-100.	1.3	17
83	Oxidation Desulfurization of Thiophene Using Phase Transfer Catalyst/H₂O₂ Systems. Petroleum Science and Technology, 2008, 26, 1099-1107.	0.7	17
84	Photochemical oxidation of thiophene by O2 in an organic two-phase liquid-liquid extraction system. Petroleum Chemistry, 2007, 47, 448-451.	0.4	3
85	Insight into the relationship of redox ability and separation efficiency via the case of Î±-Bi2O3/Bi5NO3O7. Inorganic Chemistry Frontiers, 0, , .	3.0	1