Song Bai

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

86
papers
6,952
h-index
83
g-index

91
ext. papers
8,077
ext. citations
10.5
avg, IF
L-index

#	Paper	IF	Citations
86	PtCu thickness-modulated interfacial charge transfer and surface reactivity in stacked graphene/Pd@PtCu heterostructures for highly efficient visible-light reduction of CO2 to CH4. <i>Applied Catalysis B: Environmental</i> , 2022 , 305, 121069	21.8	8
85	Emerging Stacked Photocatalyst Design Enables Spatially Separated Ni(OH) Redox Cocatalysts for Overall CO Reduction and H O Oxidation <i>Small</i> , 2021 , e2104681	11	4
84	Quantifying the photocatalytic role and activity at the edge and surface of Pd co-catalysts using N2 fixation as a case. <i>Journal of Materials Chemistry A</i> , 2021 , 9, 26036-26044	13	1
83	Cocatalyst Engineering in Piezocatalysis: A Promising Strategy for Boosting Hydrogen Evolution. <i>ACS Applied Materials & District Aces</i> , 2021 , 13, 15305-15314	9.5	19
82	Interfacial facet engineering on the Schottky barrier between plasmonic Au and TiO2 in boosting the photocatalytic CO2 reduction under ultraviolet and visible light irradiation. <i>Chemical Engineering Journal</i> , 2021 , 404, 127145	14.7	52
81	Stacking design in photocatalysis: synergizing cocatalyst roles and anti-corrosion functions of metallic MoS2 and graphene for remarkable hydrogen evolution over CdS. <i>Journal of Materials Chemistry A</i> , 2021 , 9, 1552-1562	13	15
80	Engineering an Interfacial Facet of S-Scheme Heterojunction for Improved Photocatalytic Hydrogen Evolution by Modulating the Internal Electric Field. <i>ACS Applied Materials & Discourse (Materials & Discourse)</i> 13, 39491-39500	9.5	28
79	Significantly Enhanced Photocatalytic CO Reduction by Surface Amorphization of Cocatalysts. <i>Small</i> , 2021 , 17, e2102105	11	9
78	Aspect ratio dependent photocatalytic enhancement of CsPbBr3 in CO2 reduction with two-dimensional metal organic framework as a cocatalyst. <i>Applied Catalysis B: Environmental</i> , 2021 , 297, 120411	21.8	36
77	Synergism of surface strain and interfacial polarization on Pd@Au coreBhell cocatalysts for highly efficient photocatalytic CO2 reduction over TiO2. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 7350-7359	13	26
76	Bridge engineering in photocatalysis and photoelectrocatalysis. <i>Nanoscale</i> , 2020 , 12, 5764-5791	7.7	51
75	Metallic cobalt and molybdenum oxides encapsulated in B, N-doped carbon nanocomposite catalyzed hydrogen evolution from ammonia borane hydrolysis. <i>Vacuum</i> , 2020 , 174, 109213	3.7	8
74	What is the better choice for Pd cocatalysts for photocatalytic reduction of CO2 to renewable fuels: high-crystallinity or amorphous?. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 21208-21218	13	11
73	Hybrid cocatalysts in semiconductor-based photocatalysis and photoelectrocatalysis. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 14863-14894	13	66
72	Interface engineering on Janus PdAu heterojunction co-catalysts for selective photocatalytic reduction of CO2 to CH4. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 5266-5276	13	41
71	Integration of Plasmonic Metal and Cocatalyst: An Efficient Strategy for Boosting the Visible and Broad-Spectrum Photocatalytic H2 Evolution. <i>Advanced Materials Interfaces</i> , 2019 , 6, 1900775	4.6	17
70	Vacancy engineering of AuCu cocatalysts for improving the photocatalytic conversion of CO2 to CH4. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 27007-27015	13	20

69	Facet engineering on the interface of BiOCl-PbS heterostructures for enhanced broad-spectrum photocatalytic H2 production. <i>Chemical Engineering Journal</i> , 2019 , 362, 1-11	14.7	25
68	Crystal phase engineering on photocatalytic materials for energy and environmental applications. <i>Nano Research</i> , 2019 , 12, 2031-2054	10	66
67	Shape-controlled synthesis of well-dispersed platinum nanocubes supported on graphitic carbon nitride as advanced visible-light-driven catalyst for efficient photoreduction of hexavalent chromium. <i>Journal of Colloid and Interface Science</i> , 2019 , 535, 41-49	9.3	33
66	Crystalline phase engineering on cocatalysts: A promising approach to enhancement on photocatalytic conversion of carbon dioxide to fuels. <i>Applied Catalysis B: Environmental</i> , 2018 , 230, 145-	-153 ⁸	21
65	Surface and Interface Engineering in Ag2S@MoS2 CoreBhell Nanowire Heterojunctions for Enhanced Visible Photocatalytic Hydrogen Production. <i>ChemCatChem</i> , 2018 , 10, 2107-2114	5.2	39
64	Graphene B ridgel I n transferring hot electrons from plasmonic Ag nanocubes to TiO2 nanosheets for enhanced visible light photocatalytic hydrogen evolution. <i>Applied Catalysis B: Environmental</i> , 2018 , 220, 182-190	21.8	70
63	Lattice Engineering on Metal Cocatalysts for Enhanced Photocatalytic Reduction of CO into CH. <i>ChemSusChem</i> , 2018 , 11, 3524-3533	8.3	36
62	Order engineering on the lattice of intermetallic PdCu co-catalysts for boosting the photocatalytic conversion of CO2 into CH4. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 17444-17456	13	27
61	Plasmonic molybdenum oxide nanosheets supported silver nanocubes for enhanced near-infrared antibacterial activity: Synergism of photothermal effect, silver release and photocatalytic reactions. <i>Applied Catalysis B: Environmental</i> , 2018 , 224, 671-680	21.8	76
60	Defect engineering in photocatalytic materials. <i>Nano Energy</i> , 2018 , 53, 296-336	17.1	417
6o 59	Defect engineering in photocatalytic materials. <i>Nano Energy</i> , 2018 , 53, 296-336 Sequential coating upconversion NaYF:Yb,Tm nanocrystals with SiO and ZnO layers for NIR-driven photocatalytic and antibacterial applications. <i>Materials Science and Engineering C</i> , 2017 , 70, 1141-1148	17.1	4 ¹ 7
	Sequential coating upconversion NaYF:Yb,Tm nanocrystals with SiO and ZnO layers for NIR-driven	<i>'</i>	32
59	Sequential coating upconversion NaYF:Yb,Tm nanocrystals with SiO and ZnO layers for NIR-driven photocatalytic and antibacterial applications. <i>Materials Science and Engineering C</i> , 2017 , 70, 1141-1148 Grain boundary engineered metal nanowire cocatalysts for enhanced photocatalytic reduction of	8.3	32
59 58	Sequential coating upconversion NaYF:Yb,Tm nanocrystals with SiO and ZnO layers for NIR-driven photocatalytic and antibacterial applications. <i>Materials Science and Engineering C</i> , 2017 , 70, 1141-1148 Grain boundary engineered metal nanowire cocatalysts for enhanced photocatalytic reduction of carbon dioxide. <i>Applied Catalysis B: Environmental</i> , 2017 , 206, 282-292 High-index facet engineering of PtCu cocatalysts for superior photocatalytic reduction of CO2 to	8.3	32 55
59 58 57	Sequential coating upconversion NaYF:Yb,Tm nanocrystals with SiO and ZnO layers for NIR-driven photocatalytic and antibacterial applications. <i>Materials Science and Engineering C</i> , 2017 , 70, 1141-1148 Grain boundary engineered metal nanowire cocatalysts for enhanced photocatalytic reduction of carbon dioxide. <i>Applied Catalysis B: Environmental</i> , 2017 , 206, 282-292 High-index facet engineering of PtCu cocatalysts for superior photocatalytic reduction of CO2 to CH4. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 6686-6694 Heterogeneous Semiconductor Shells Sequentially Coated on Upconversion Nanoplates for	8.3 21.8	3 ² 55 70
59 58 57 56	Sequential coating upconversion NaYF:Yb,Tm nanocrystals with SiO and ZnO layers for NIR-driven photocatalytic and antibacterial applications. <i>Materials Science and Engineering C</i> , 2017 , 70, 1141-1148 Grain boundary engineered metal nanowire cocatalysts for enhanced photocatalytic reduction of carbon dioxide. <i>Applied Catalysis B: Environmental</i> , 2017 , 206, 282-292 High-index facet engineering of PtCu cocatalysts for superior photocatalytic reduction of CO2 to CH4. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 6686-6694 Heterogeneous Semiconductor Shells Sequentially Coated on Upconversion Nanoplates for NIR-Light Enhanced Photocatalysis. <i>Inorganic Chemistry</i> , 2017 , 56, 2328-2336 Hydriding Pd cocatalysts: An approach to giant enhancement on photocatalytic CO2 reduction into	8.3 21.8 13 5.1	32 55 70 20
59 58 57 56 55	Sequential coating upconversion NaYF:Yb,Tm nanocrystals with SiO and ZnO layers for NIR-driven photocatalytic and antibacterial applications. <i>Materials Science and Engineering C</i> , 2017 , 70, 1141-1148 Grain boundary engineered metal nanowire cocatalysts for enhanced photocatalytic reduction of carbon dioxide. <i>Applied Catalysis B: Environmental</i> , 2017 , 206, 282-292 High-index facet engineering of PtCu cocatalysts for superior photocatalytic reduction of CO2 to CH4. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 6686-6694 Heterogeneous Semiconductor Shells Sequentially Coated on Upconversion Nanoplates for NIR-Light Enhanced Photocatalysis. <i>Inorganic Chemistry</i> , 2017 , 56, 2328-2336 Hydriding Pd cocatalysts: An approach to giant enhancement on photocatalytic CO2 reduction into CH4. <i>Nano Research</i> , 2017 , 10, 3396-3406 Engineering on the edge of Pd nanosheet cocatalysts for enhanced photocatalytic reduction of	8.3 21.8 13 5.1	32 55 70 20 72

51	Facet Engineered Interface Design of Plasmonic Metal and Cocatalyst on BiOCl Nanoplates for Enhanced Visible Photocatalytic Oxygen Evolution. <i>Small</i> , 2017 , 13, 1701607	11	34
50	Facet-Engineered Surface and Interface Design of Photocatalytic Materials. <i>Advanced Science</i> , 2017 , 4, 1600216	13.6	223
49	Long-term production of H2 over Pt/CdS nanoplates under sunlight illumination. <i>Chemical Engineering Journal</i> , 2016 , 283, 351-357	14.7	50
48	Embedding Metal in the Interface of a p-n Heterojunction with a Stack Design for Superior Z-Scheme Photocatalytic Hydrogen Evolution. <i>ACS Applied Materials & Design for Superior ACS Applied Materia</i>	2 ^{9.5}	170
47	Ultrathin nanosheets of palladium in boosting its cocatalyst role and plasmonic effect towards enhanced photocatalytic hydrogen evolution. <i>RSC Advances</i> , 2016 , 6, 56800-56806	3.7	18
46	Facet engineered interface design of NaYF:Yb,Tm upconversion nanocrystals on BiOCl nanoplates for enhanced near-infrared photocatalysis. <i>Nanoscale</i> , 2016 , 8, 19014-19024	7.7	42
45	Direct Generation of Fine Bi2WO6 Nanocrystals on g-C3N4 Nanosheets for Enhanced Photocatalytic Activity. <i>ChemNanoMat</i> , 2016 , 2, 732-738	3.5	22
44	Surface and interface design in cocatalysts for photocatalytic water splitting and CO2 reduction. <i>RSC Advances</i> , 2016 , 6, 57446-57463	3.7	147
43	A novel etching and reconstruction route to ultrathin porous TiO2 hollow spheres for enhanced photocatalytic hydrogen evolution. <i>International Journal of Hydrogen Energy</i> , 2016 , 41, 1627-1634	6.7	12
42	Depositing CdS nanoclusters on carbon-modified NaYF4:Yb,Tm upconversion nanocrystals for NIR-light enhanced photocatalysis. <i>Nanoscale</i> , 2016 , 8, 553-62	7.7	78
41	Integration of Multiple Plasmonic and Co-Catalyst Nanostructures on TiO2 Nanosheets for Visible-Near-Infrared Photocatalytic Hydrogen Evolution. <i>Small</i> , 2016 , 12, 1640-8	11	111
40	Incorporation of Pd into Pt Co-Catalysts toward Enhanced Photocatalytic Water Splitting. <i>Particle and Particle Systems Characterization</i> , 2016 , 33, 506-511	3.1	22
39	Coating a N-doped TiO2 shell on dually sensitized upconversion nanocrystals to provide NIR-enhanced photocatalysts for efficient utilization of upconverted emissions. <i>Inorganic Chemistry Frontiers</i> , 2016 , 3, 1190-1197	6.8	9
38	Synthesis of vis/NIR-driven hybrid photocatalysts by electrostatic assembly of NaYF4:Yb, Tm nanocrystals on g-C3N4 nanosheets. <i>Materials Letters</i> , 2015 , 146, 87-90	3.3	25
37	Toward Enhanced Photocatalytic Oxygen Evolution: Synergetic Utilization of Plasmonic Effect and Schottky Junction via Interfacing Facet Selection. <i>Advanced Materials</i> , 2015 , 27, 3444-52	24	295
36	Steering charge kinetics in photocatalysis: intersection of materials syntheses, characterization techniques and theoretical simulations. <i>Chemical Society Reviews</i> , 2015 , 44, 2893-939	58.5	732
35	Some recent developments in surface and interface design for photocatalytic and electrocatalytic hybrid structures. <i>Chemical Communications</i> , 2015 , 51, 10261-71	5.8	80
34	Towards full-spectrum photocatalysis: Achieving a Z-scheme between Ag2S and TiO2 by engineering energy band alignment with interfacial Ag. <i>Nano Research</i> , 2015 , 8, 3621-3629	10	53

(2014-2015)

33	Recent advances in surface and interface engineering for electrocatalysis. <i>Chinese Journal of Catalysis</i> , 2015 , 36, 1476-1493	11.3	35
32	Surface and Interface Engineering in Photocatalysis. <i>ChemNanoMat</i> , 2015 , 1, 223-239	3.5	101
31	Etching approach to hybrid structures of PtPd nanocages and graphene for efficient oxygen reduction reaction catalysts. <i>Nano Research</i> , 2015 , 8, 2789-2799	10	34
30	Facile ambedding of Au nanocrystals into silica spheres with controllable quantity for improved catalytic reduction of p-nitrophenol. <i>Inorganic Chemistry Frontiers</i> , 2015, 2, 938-944	6.8	4
29	Chemically exfoliated metallic MoS2 nanosheets: A promising supporting co-catalyst for enhancing the photocatalytic performance of TiO2 nanocrystals. <i>Nano Research</i> , 2015 , 8, 175-183	10	298
28	Boosting Photocatalytic Water Splitting: Interfacial Charge Polarization in Atomically Controlled CoreBhell Cocatalysts. <i>Angewandte Chemie</i> , 2015 , 127, 15023-15027	3.6	8
27	Boosting Photocatalytic Water Splitting: Interfacial Charge Polarization in Atomically Controlled Core-Shell Cocatalysts. <i>Angewandte Chemie - International Edition</i> , 2015 , 54, 14810-4	16.4	119
26	Recent Advances in Two-Dimensional Nanostructures for Catalysis Applications. <i>Science of Advanced Materials</i> , 2015 , 7, 2168-2181	2.3	32
25	Designing p-type semiconductor-metal hybrid structures for improved photocatalysis. <i>Angewandte Chemie - International Edition</i> , 2014 , 53, 5107-11	16.4	148
24	A facile and general route for the synthesis of semiconductor quantum dots on reduced graphene oxide sheets. <i>RSC Advances</i> , 2014 , 4, 13601	3.7	8
23	Two-dimensional g-C(3)N(4): an ideal platform for examining facet selectivity of metal co-catalysts in photocatalysis. <i>Chemical Communications</i> , 2014 , 50, 6094-7	5.8	190
22	Semiconductors: A Unique SemiconductorMetal@raphene Stack Design to Harness Charge Flow for Photocatalysis (Adv. Mater. 32/2014). <i>Advanced Materials</i> , 2014 , 26, 5578-5578	24	4
21	Surface polarization matters: enhancing the hydrogen-evolution reaction by shrinking Pt shells in Pt-Pd-graphene stack structures. <i>Angewandte Chemie - International Edition</i> , 2014 , 53, 12120-4	16.4	380
20	A unique semiconductor-metal-graphene stack design to harness charge flow for photocatalysis. <i>Advanced Materials</i> , 2014 , 26, 5689-95	24	116
19	Tunable Oxygen Activation for Catalytic Organic Oxidation: Schottky Junction versus Plasmonic Effects. <i>Angewandte Chemie</i> , 2014 , 126, 3269-3273	3.6	32
18	Designing p-Type SemiconductorMetal Hybrid Structures for Improved Photocatalysis. Angewandte Chemie, 2014 , 126, 5207-5211	3.6	55
17	Surface Polarization Matters: Enhancing the Hydrogen-Evolution Reaction by Shrinking Pt Shells in PtPdCraphene Stack Structures. <i>Angewandte Chemie</i> , 2014 , 126, 12316-12320	3.6	45
16	Tunable oxygen activation for catalytic organic oxidation: Schottky junction versus plasmonic effects. <i>Angewandte Chemie - International Edition</i> , 2014 , 53, 3205-9	16.4	121

15	REktitelbild: Surface Polarization Matters: Enhancing the Hydrogen-Evolution Reaction by Shrinking Pt Shells in PtPdCraphene Stack Structures (Angew. Chem. 45/2014). <i>Angewandte Chemie</i> , 2014 , 126, 12462-12462	3.6	
14	Assembly of Ag3PO4 nanocrystals on graphene-based nanosheets with enhanced photocatalytic performance. <i>Journal of Colloid and Interface Science</i> , 2013 , 405, 1-9	9.3	57
13	Optical Properties and a Simple and General Route for the Rapid Syntheses of Reduced Graphene Oxide Metal Sulfide Nanocomposites. <i>European Journal of Inorganic Chemistry</i> , 2013 , 2013, 256-262	2.3	17
12	The influence of wrinkling in reduced graphene oxide on their adsorption and catalytic properties. <i>Carbon</i> , 2013 , 60, 157-168	10.4	69
11	A unique platinum-graphene hybrid structure for high activity and durability in oxygen reduction reaction. <i>Scientific Reports</i> , 2013 , 3, 2580	4.9	52
10	Hierarchical ZnO microspheres built by sheet-like network: Large-scale synthesis and structurally enhanced catalytic performances. <i>Materials Chemistry and Physics</i> , 2012 , 132, 1065-1070	4.4	11
9	In situ growth of Ni(x)Co(100-x) nanoparticles on reduced graphene oxide nanosheets and their magnetic and catalytic properties. <i>ACS Applied Materials & amp; Interfaces</i> , 2012 , 4, 2378-86	9.5	136
8	In situ growth of FeNi alloy nanoflowers on reduced graphene oxide nanosheets and their magnetic properties. <i>CrystEngComm</i> , 2012 , 14, 1432-1438	3.3	30
7	Nanocomposites of hematite (Fe2O3) nanospindles with crumpled reduced graphene oxide nanosheets as high-performance anode material for lithium-ion batteries. <i>RSC Advances</i> , 2012 , 2, 10977	3.7	72
6	Graphenelhorganic nanocomposites. <i>RSC Advances</i> , 2012 , 2, 64-98	3.7	507
5	One-pot solvothermal preparation of magnetic reduced graphene oxide-ferrite hybrids for organic dye removal. <i>Carbon</i> , 2012 , 50, 2337-2346	10.4	295
4	Reversible phase transfer of graphene oxide and its use in the synthesis of graphene-based hybrid materials. <i>Carbon</i> , 2011 , 49, 4563-4570	10.4	39
3	One-pot solvothermal syntheses and magnetic properties of graphene-based magnetic nanocomposites. <i>Journal of Alloys and Compounds</i> , 2010 , 506, 136-140	5.7	111
2	Preparation and characterization of graphene/CdS nanocomposites. <i>Applied Surface Science</i> , 2010 , 257, 747-751	6.7	109
1	Stacking Engineering of Semiconductor Heterojunctions on Hollow Carbon Spheres for Boosting Photocatalytic CO2 Reduction. <i>ACS Catalysis</i> ,2569-2580	13.1	12