Shengyao Wang

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Unique S-scheme heterojunctions in self-assembled TiO2/CsPbBr3 hybrids for CO2 photoreduction. Nature Communications, 2020, 11, 4613.	5.8	776
2	Lightâ€Switchable Oxygen Vacancies in Ultrafine Bi ₅ O ₇ Br Nanotubes for Boosting Solarâ€Driven Nitrogen Fixation in Pure Water. Advanced Materials, 2017, 29, 1701774.	11.1	533
3	Identification of Halogen-Associated Active Sites on Bismuth-Based Perovskite Quantum Dots for Efficient and Selective CO ₂ -to-CO Photoreduction. ACS Nano, 2020, 14, 13103-13114.	7.3	282
4	Direct and Selective Photocatalytic Oxidation of CH ₄ to Oxygenates with O ₂ on Cocatalysts/ZnO at Room Temperature in Water. Journal of the American Chemical Society, 2019, 141, 20507-20515.	6.6	253
5	A plate-on-plate sandwiched Z-scheme heterojunction photocatalyst: BiOBr-Bi 2 MoO 6 with enhanced photocatalytic performance. Applied Surface Science, 2017, 391, 194-201.	3.1	238
6	Oxygen vacancies induced special CO2 adsorption modes on Bi2MoO6 for highly selective conversion to CH4. Applied Catalysis B: Environmental, 2019, 259, 118088.	10.8	221
7	Nitrogen Fixation Reaction Derived from Nanostructured Catalytic Materials. Advanced Functional Materials, 2018, 28, 1803309.	7.8	212
8	Sustained CO2-photoreduction activity and high selectivity over Mn, C-codoped ZnO core-triple shell hollow spheres. Nature Communications, 2021, 12, 4936.	5.8	159
9	A selective Au-ZnO/TiO2 hybrid photocatalyst for oxidative coupling of methane to ethane with dioxygen. Nature Catalysis, 2021, 4, 1032-1042.	16.1	156
10	Intermolecular cascaded π-conjugation channels for electron delivery powering CO2 photoreduction. Nature Communications, 2020, 11, 1149.	5.8	147
11	In Situ Carbon Homogeneous Doping on Ultrathin Bismuth Molybdate: A Dualâ€Purpose Strategy for Efficient Molecular Oxygen Activation. Advanced Functional Materials, 2017, 27, 1703923.	7.8	136
12	Facile Top-Down Strategy for Direct Metal Atomization and Coordination Achieving a High Turnover Number in CO ₂ Photoreduction. Journal of the American Chemical Society, 2020, 142, 19259-19267.	6.6	128
13	Selective Photo-oxidation of Methane to Methanol with Oxygen over Dual-Cocatalyst-Modified Titanium Dioxide. ACS Catalysis, 2020, 10, 14318-14326.	5.5	114
14	Insight into the effect of bromine on facet-dependent surface oxygen vacancies construction and stabilization of Bi2MoO6 for efficient photocatalytic NO removal. Applied Catalysis B: Environmental, 2020, 265, 118585.	10.8	96
15	Frustrated Lewis Pair Sites Boosting CO ₂ Photoreduction on Cs ₂ CuBr ₄ Perovskite Quantum Dots. ACS Catalysis, 2022, 12, 2915-2926.	5.5	94
16	Low-temperature strategy toward Ni-NC@Ni core-shell nanostructure with Single-Ni sites for efficient CO2 electroreduction. Nano Energy, 2020, 77, 105010.	8.2	70
17	A mesoporous non-precious metal boride system: synthesis of mesoporous cobalt boride by strictly controlled chemical reduction. Chemical Science, 2020, 11, 791-796.	3.7	58
18	Highly Intensified Molecular Oxygen Activation on Bi@Bi ₂ MoO ₆ via a Metallic Bi-Coordinated Facet-Dependent Effect. ACS Applied Materials & Interfaces, 2020, 12, 1867-1876.	4.0	54

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19	A highly stable all-in-one photocatalyst for aryl etherification: the Ni ^{II} embedded covalent organic framework. Green Chemistry, 2021, 23, 5797-5805.	4.6	47
20	An artificial photosynthesis system comprising a covalent triazine framework as an electron relay facilitator for photochemical carbon dioxide reduction. Journal of Materials Chemistry C, 2020, 8, 192-200.	2.7	43
21	Deep insight into ROS mediated direct and hydroxylated dichlorination process for efficient photocatalytic sodium pentachlorophenate mineralization. Applied Catalysis B: Environmental, 2021, 296, 120352.	10.8	42
22	Stabilizing CuGaS ₂ by crystalline CdS through an interfacial Z-scheme charge transfer for enhanced photocatalytic CO ₂ reduction under visible light. Nanoscale, 2020, 12, 8693-8700.	2.8	39
23	Simple fabrication of Fe ₃ O ₄ /C/g-C ₃ N ₄ two-dimensional composite by hydrothermal carbonization approach with enhanced photocatalytic performance under visible light. Catalysis Science and Technology, 2018, 8, 3484-3492.	2.1	32
24	Insights into the Surface/Interface Modifications of Bi ₂ MoO ₆ : Feasible Strategies and Photocatalytic Applications. Solar Rrl, 2021, 5, 2000442.	3.1	29
25	2D-C ₃ N ₄ encapsulated perovskite nanocrystals for efficient photo-assisted thermocatalytic CO ₂ reduction. Chemical Science, 2022, 13, 1335-1341.	3.7	29
26	Comprehensive investigation on robust photocatalytic hydrogen production over C3N5. Chinese Journal of Catalysis, 2022, 43, 410-420.	6.9	25
27	Efficient photocatalytic CO ₂ reduction mediated by transitional metal borides: metal site-dependent activity and selectivity. Journal of Materials Chemistry A, 2020, 8, 21833-21841.	5.2	23
28	Bacteria-Assisted Synthesis of Nanosheet-Assembled TiO ₂ Hierarchical Architectures for Constructing TiO ₂ -Based Composites for Photocatalytic and Electrocatalytic Applications. ACS Applied Materials & Interfaces, 2019, 11, 37004-37012.	4.0	19
29	Chloridion-induced dual tunable fabrication of oxygen-deficient Bi2WO6 atomic layers for deep oxidation of NO. Chinese Journal of Catalysis, 2021, 42, 1013-1023.	6.9	17
30	Two consecutive post-synthetic modifications of benzothiadiazole-based conjugated polymers for enhanced photocatalytic H ₂ evolution: the significance of the sulfinyl group. Journal of Materials Chemistry A, 2021, 9, 10208-10216.	5.2	15
31	Interfacing Photosynthetic Membrane Protein with Mesoporous WO ₃ Photoelectrode for Solar Water Oxidation. Small, 2018, 14, e1800104.	5.2	14
32	Integrating single Co sites into crystalline covalent triazine frameworks for photoreduction of CO ₂ . Chemical Communications, 2022, 58, 8121-8124.	2.2	13
33	Construction of oxygen vacancy on Bi12O17Cl2 nanosheets by heat-treatment in H2O vapor for photocatalytic NO oxidation. Journal of Materials Science and Technology, 2022, 123, 234-242.	5.6	12
34	Direct catalytic nitrogen oxide removal using thermal, electrical or solar energy. Chinese Chemical Letters, 2022, 33, 1117-1130.	4.8	8
35	Superoxide anion and singlet oxygen dominated faster photocatalytic elimination of nitric oxide over defective bismuth molybdates heterojunctions. Journal of Colloid and Interface Science, 2022, 618, 248-258.	5.0	4
36	Photocatalysis: Light‣witchable Oxygen Vacancies in Ultrafine Bi ₅ O ₇ Br Nanotubes for Boosting Solarâ€Driven Nitrogen Fixation in Pure Water (Adv. Mater. 31/2017). Advanced Materials, 2017, 29, .	11.1	2

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37	Ultrafast synthesis of near-zero-cost S-doped Ni(OH) ₂ on C ₃ N ₅ under ambient conditions with enhanced photocatalytic activity. RSC Advances, 2021, 11, 36166-36173.	1.7	2