

Shengyao Wang

List of Publications by Year in descending order

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Version: 2024-02-01

37
papers

4,146
citations

236833

25
h-index

315616

38
g-index

38
all docs

38
docs citations

38
times ranked

3651
citing authors

#	ARTICLE	IF	CITATIONS
1	Direct catalytic nitrogen oxide removal using thermal, electrical or solar energy. Chinese Chemical Letters, 2022, 33, 1117-1130.	4.8	8
2	Comprehensive investigation on robust photocatalytic hydrogen production over C ₃ N ₅ . Chinese Journal of Catalysis, 2022, 43, 410-420.	6.9	25
3	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
4	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
5	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
6	Construction of oxygen vacancy on Bi ₂ O ₃ nanosheets by heat-treatment in H ₂ O vapor for photocatalytic NO oxidation. Journal of Materials Science and Technology, 2022, 123, 234-242.	5.6	12
7	Integrating single Co sites into crystalline covalent triazine frameworks for photoreduction of CO ₂ . Chemical Communications, 2022, 58, 8121-8124.	2.2	13
8	Insights into the Surface/Interface Modifications of Bi ₂ MoO ₆ : Feasible Strategies and Photocatalytic Applications. Solar Rrl, 2021, 5, 2000442.	3.1	29
9	Chloridion-induced dual tunable fabrication of oxygen-deficient Bi ₂ WO ₆ atomic layers for deep oxidation of NO. Chinese Journal of Catalysis, 2021, 42, 1013-1023.	6.9	17
10	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
11	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
12	Sustained CO ₂ -photoreduction activity and high selectivity over Mn, C-codoped ZnO core-triple shell hollow spheres. Nature Communications, 2021, 12, 4936.	5.8	159
13	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
14	A selective Au-ZnO/TiO ₂ hybrid photocatalyst for oxidative coupling of methane to ethane with dioxygen. Nature Catalysis, 2021, 4, 1032-1042.	16.1	156
15	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
16	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
17	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
18	Insight into the effect of bromine on facet-dependent surface oxygen vacancies construction and stabilization of Bi ₂ MoO ₆ for efficient photocatalytic NO removal. Applied Catalysis B: Environmental, 2020, 265, 118585.	10.8	96

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19	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
20	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
21	Low-temperature strategy toward Ni-NC@Ni core-shell nanostructure with Single-Ni sites for efficient CO ₂ electroreduction. Nano Energy, 2020, 77, 105010.	8.2	70
22	Selective Photo-oxidation of Methane to Methanol with Oxygen over Dual-Cocatalyst-Modified Titanium Dioxide. ACS Catalysis, 2020, 10, 14318-14326.	5.5	114
23	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
24	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
25	Unique S-scheme heterojunctions in self-assembled TiO ₂ /CsPbBr ₃ hybrids for CO ₂ photoreduction. Nature Communications, 2020, 11, 4613.	5.8	776
26	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
27	Intermolecular cascaded π -conjugation channels for electron delivery powering CO ₂ photoreduction. Nature Communications, 2020, 11, 1149.	5.8	147
28	Oxygen vacancies induced special CO ₂ adsorption modes on Bi ₂ MoO ₆ for highly selective conversion to CH ₄ . Applied Catalysis B: Environmental, 2019, 259, 118088.	10.8	221
29	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
30	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
31	Interfacing Photosynthetic Membrane Protein with Mesoporous WO ₃ Photoelectrode for Solar Water Oxidation. Small, 2018, 14, e1800104.	5.2	14
32	Nitrogen Fixation Reaction Derived from Nanostructured Catalytic Materials. Advanced Functional Materials, 2018, 28, 1803309.	7.8	212
33	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
34	Light-Switchable Oxygen Vacancies in Ultrafine Bi ₅ O ₇ Br Nanotubes for Boosting Solar-Driven Nitrogen Fixation in Pure Water. Advanced Materials, 2017, 29, 1701774.	11.1	533
35	In Situ Carbon Homogeneous Doping on Ultrathin Bismuth Molybdate: A Dual-Purpose Strategy for Efficient Molecular Oxygen Activation. Advanced Functional Materials, 2017, 27, 1703923.	7.8	136
36	Photocatalysis: Light-Switchable Oxygen Vacancies in Ultrafine Bi ₅ O ₇ Br Nanotubes for Boosting Solar-Driven Nitrogen Fixation in Pure Water (Adv. Mater. 31/2017). Advanced Materials, 2017, 29, .	11.1	2

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37	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