

Jianping Sheng

List of Publications by Year in descending order

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45
papers

4,034
citations

147566

31
h-index

233125

45
g-index

45
all docs

45
docs citations

45
times ranked

4550
citing authors

#	ARTICLE	IF	CITATIONS
1	The mechanisms of interfacial charge transfer and photocatalysis reaction over Cs ₃ Bi ₂ Cl ₉ QD/(BiO) ₂ CO ₃ heterojunction. <i>Chemical Engineering Journal</i> , 2022, 430, 132974.	6.6	14
2	Porous Mn-doped Co ₃ O ₄ nanosheets: Gas sensing performance and interfacial mechanism investigation with In situ DRIFTS. <i>Sensors and Actuators B: Chemical</i> , 2022, 353, 131155.	4.0	27
3	Frustrated Lewis Pair Sites Boosting CO ₂ Photoreduction on Cs ₂ CuBr ₄ Perovskite Quantum Dots. <i>ACS Catalysis</i> , 2022, 12, 2915-2926.	5.5	94
4	Rapid Self-Decomposition of g-C ₃ N ₄ During Gas-Solid Photocatalytic CO ₂ Reduction and Its Effects on Performance Assessment. <i>ACS Catalysis</i> , 2022, 12, 4560-4570.	5.5	86
5	Chemical Discrimination of Benzene Series and Molecular Recognition of the Sensing Process over Ti-Doped Co ₃ O ₄ . <i>ACS Sensors</i> , 2022, 7, 1757-1765.	4.0	17
6	Dual-quantum-dots heterostructure with confined active interface for promoted photocatalytic NO abatement. <i>Journal of Hazardous Materials</i> , 2022, 438, 129463.	6.5	10
7	Perovskite Nanocrystals-Based Heterostructures: Synthesis Strategies, Interfacial Effects, and Photocatalytic Applications. <i>Solar Rrl</i> , 2021, 5, 2000419.	3.1	20
8	Surface Lattice Oxygen Activation on Sr ₂ Sb ₂ O ₇ Enhances the Photocatalytic Mineralization of Toluene: from Reactant Activation, Intermediate Conversion to Product Desorption. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 5153-5164.	4.0	46
9	Optimizing the Electronic Structure of BiOBr Nanosheets via Combined Ba Doping and Oxygen Vacancies for Promoted Photocatalysis. <i>Journal of Physical Chemistry C</i> , 2021, 125, 8597-8605.	1.5	31
10	Zn-doping mediated formation of oxygen vacancies in SnO ₂ with unique electronic structure for efficient and stable photocatalytic toluene degradation. <i>Chinese Journal of Catalysis</i> , 2021, 42, 1195-1204.	6.9	37
11	Ultrathin Two-Dimensional Bi-Based photocatalysts: Synthetic strategies, surface defects, and reaction mechanisms. <i>Chemical Engineering Journal</i> , 2021, 417, 129305.	6.6	52
12	Identification of deactivation-resistant origin of In(OH) ₃ for efficient and durable photodegradation of benzene, toluene and their mixtures. <i>Journal of Hazardous Materials</i> , 2021, 416, 126208.	6.5	21
13	In situ loading of MoO ₃ clusters on ultrathin Bi ₂ MoO ₆ nanosheets for synergistically enhanced photocatalytic NO abatement. <i>Applied Catalysis B: Environmental</i> , 2021, 292, 120159.	10.8	51
14	Crystal-structure dependent reaction pathways in photocatalytic formaldehyde mineralization on BiPO ₄ . <i>Journal of Hazardous Materials</i> , 2021, 420, 126633.	6.5	13
15	Doping and facet effects synergistically mediated interfacial reaction mechanism and selectivity in photocatalytic NO abatement. <i>Journal of Colloid and Interface Science</i> , 2021, 604, 624-634.	5.0	12
16	Fabrication of dopamine enveloped WO ₃ quantum dots as single-NIR laser activated photonic nanodrug for synergistic photothermal/photodynamic therapy against cancer. <i>Chemical Engineering Journal</i> , 2020, 383, 123071.	6.6	45
17	Nitrogen defect structure and NO ⁺ intermediate promoted photocatalytic NO removal on H ₂ treated g-C ₃ N ₄ . <i>Chemical Engineering Journal</i> , 2020, 379, 122282.	6.6	260
18	Unraveling the mechanism of binary channel reactions in photocatalytic formaldehyde decomposition for promoted mineralization. <i>Applied Catalysis B: Environmental</i> , 2020, 260, 118130.	10.8	99

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19	Pd-TiO ₂ Schottky heterojunction catalyst boost the electrocatalytic hydrodechlorination reaction. <i>Chemical Engineering Journal</i> , 2020, 381, 122673.	6.6	75
20	The pivotal roles of spatially separated charge localization centers on the molecules activation and photocatalysis mechanism. <i>Applied Catalysis B: Environmental</i> , 2020, 262, 118251.	10.8	89
21	OH/Na co-functionalized carbon nitride: directional charge transfer and enhanced photocatalytic oxidation ability. <i>Catalysis Science and Technology</i> , 2020, 10, 529-535.	2.1	13
22	Unveiling the unconventional roles of methyl number on the ring-opening barrier in photocatalytic decomposition of benzene, toluene and o-xylene. <i>Applied Catalysis B: Environmental</i> , 2020, 278, 119318.	10.8	57
23	Identification of Halogen-Associated Active Sites on Bismuth-Based Perovskite Quantum Dots for Efficient and Selective CO ₂ -to-CO Photoreduction. <i>ACS Nano</i> , 2020, 14, 13103-13114.	7.3	282
24	Rare-Earth Single-Atom La-N Charge-Transfer Bridge on Carbon Nitride for Highly Efficient and Selective Photocatalytic CO ₂ Reduction. <i>ACS Nano</i> , 2020, 14, 15841-15852.	7.3	283
25	La-doping induced localized excess electrons on (BiO) ₂ CO ₃ for efficient photocatalytic NO removal and toxic intermediates suppression. <i>Journal of Hazardous Materials</i> , 2020, 400, 123174.	6.5	43
26	Nature-inspired CaCO ₃ loading TiO ₂ composites for efficient and durable photocatalytic mineralization of gaseous toluene. <i>Science Bulletin</i> , 2020, 65, 1626-1634.	4.3	59
27	Synergistic Photocatalytic Decomposition of a Volatile Organic Compound Mixture: High Efficiency, Reaction Mechanism, and Long-Term Stability. <i>ACS Catalysis</i> , 2020, 10, 7230-7239.	5.5	98
28	Interfacial activation of reactants and intermediates on CaSO ₄ insulator-based heterostructure for efficient photocatalytic NO removal. <i>Chemical Engineering Journal</i> , 2020, 390, 124609.	6.6	39
29	Theoretical design and experimental investigation on highly selective Pd particles decorated C ₃ N ₄ for safe photocatalytic NO purification. <i>Journal of Hazardous Materials</i> , 2020, 392, 122357.	6.5	81
30	SrTiO ₃ /BiOI heterostructure: Interfacial charge separation, enhanced photocatalytic activity, and reaction mechanism. <i>Chinese Journal of Catalysis</i> , 2020, 41, 710-718.	6.9	32
31	Synergistic effects of crystal structure and oxygen vacancy on Bi ₂ O ₃ polymorphs: intermediates activation, photocatalytic reaction efficiency, and conversion pathway. <i>Science Bulletin</i> , 2020, 65, 467-476.	4.3	108
32	Bi quantum dots implanted 2D C-doped BiOCl nanosheets: Enhanced visible light photocatalysis efficiency and reaction pathway. <i>Chinese Journal of Catalysis</i> , 2020, 41, 1430-1438.	6.9	77
33	Photostable core-shell CdS/ZIF-8 composite for enhanced photocatalytic reduction of CO ₂ . <i>Applied Surface Science</i> , 2019, 498, 143899.	3.1	72
34	Coordination Nanosheets of Phthalocyanine as Multifunctional Platform for Imaging-Guided Synergistic Therapy of Cancer. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 6840-6849.	4.0	40
35	Promoted reactants activation and charge separation leading to efficient photocatalytic activity on phosphate/potassium co-functionalized carbon nitride. <i>Chinese Chemical Letters</i> , 2019, 30, 875-880.	4.8	34
36	Light-Induced Generation and Regeneration of Oxygen Vacancies in BiSbO ₄ for Sustainable Visible Light Photocatalysis. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 47984-47991.	4.0	61

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37	Two dimensional semiconductors for ultrasound-mediated cancer therapy: the case of black phosphorus nanosheets. <i>Chemical Communications</i> , 2018, 54, 2874-2877.	2.2	114
38	MOF-Templated Fabrication of Hollow Co ₄ N@N-Doped Carbon Porous Nanocages with Superior Catalytic Activity. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 7191-7200.	4.0	130
39	Biomimetic Mineralization Guided One-Pot Preparation of Gold Clusters Anchored Two-Dimensional MnO ₂ Nanosheets for Fluorometric/Magnetic Bimodal Sensing. <i>Analytical Chemistry</i> , 2018, 90, 2926-2932.	3.2	74
40	Black Phosphorus Nanosheets as a Neuroprotective Nanomedicine for Neurodegenerative Disorder Therapy. <i>Advanced Materials</i> , 2018, 30, 1703458.	11.1	266
41	Dual Roles of Protein as a Template and a Sulfur Provider: A General Approach to Metal Sulfides for Efficient Photothermal Therapy of Cancer. <i>Small</i> , 2018, 14, 1702529.	5.2	120
42	Synthesis of Three-Dimensional Nitrogen and Sulfur Dual-Doped Graphene Aerogels as an Efficient Metal-Free Electrocatalyst for the Oxygen Reduction Reaction. <i>ChemElectroChem</i> , 2017, 4, 1885-1890.	1.7	21
43	Rapid separation and large-scale synthesis of Fe ²⁺ -FeOOH nanospindles for direct coal liquefaction. <i>Fuel Processing Technology</i> , 2017, 165, 80-86.	3.7	11
44	Black Phosphorus Nanosheet-Based Drug Delivery System for Synergistic Photodynamic/Photothermal/Chemotherapy of Cancer. <i>Advanced Materials</i> , 2017, 29, 1603864.	11.1	793
45	Fabrication of Surface Protein-Imprinted Biofuel Cell for Sensitive Self-Powered Glycoprotein Detection. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 35004-35011.	4.0	27