Jianping Sheng

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/3254952/publications.pdf

Version: 2024-02-01

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	Black Phosphorus Nanosheetâ€Based Drug Delivery System for Synergistic Photodynamic/Photothermal/Chemotherapy of Cancer. Advanced Materials, 2017, 29, 1603864.	11.1	793
2	Rare-Earth Single-Atom Laâ€“N Charge-Transfer Bridge on Carbon Nitride for Highly Efficient and Selective Photocatalytic CO₂ Reduction. ACS Nano, 2020, 14, 15841-15852.	7.3	283
3	Identification of Halogen-Associated Active Sites on Bismuth-Based Perovskite Quantum Dots for Efficient and Selective CO₂-to-CO Photoreduction. ACS Nano, 2020, 14, 13103-13114.	7.3	282
4	Black Phosphorus Nanosheets as a Neuroprotective Nanomedicine for Neurodegenerative Disorder Therapy. Advanced Materials, 2018, 30, 1703458.	11.1	266
5	Nitrogen defect structure and NO+ intermediate promoted photocatalytic NO removal on H2 treated g-C3N4. Chemical Engineering Journal, 2020, 379, 122282.	6.6	260
6	MOF-Templated Fabrication of Hollow Co₄N@N-Doped Carbon Porous Nanocages with Superior Catalytic Activity. ACS Applied Materials & Interfaces, 2018, 10, 7191-7200.	4.0	130
7	Dual Roles of Protein as a Template and a Sulfur Provider: A General Approach to Metal Sulfides for Efficient Photothermal Therapy of Cancer. Small, 2018, 14, 1702529.	5.2	120
8	Two dimensional semiconductors for ultrasound-mediated cancer therapy: the case of black phosphorus nanosheets. Chemical Communications, 2018, 54, 2874-2877.	2.2	114
9	Synergistic effects of crystal structure and oxygen vacancy on Bi2O3 polymorphs: intermediates activation, photocatalytic reaction efficiency, and conversion pathway. Science Bulletin, 2020, 65, 467-476.	4.3	108
10	Unraveling the mechanism of binary channel reactions in photocatalytic formaldehyde decomposition for promoted mineralization. Applied Catalysis B: Environmental, 2020, 260, 118130.	10.8	99
11	Synergistic Photocatalytic Decomposition of a Volatile Organic Compound Mixture: High Efficiency, Reaction Mechanism, and Long-Term Stability. ACS Catalysis, 2020, 10, 7230-7239.	5.5	98
12	Frustrated Lewis Pair Sites Boosting CO₂ Photoreduction on Cs₂CuBr₄ Perovskite Quantum Dots. ACS Catalysis, 2022, 12, 2915-2926.	5.5	94
13	The pivotal roles of spatially separated charge localization centers on the molecules activation and photocatalysis mechanism. Applied Catalysis B: Environmental, 2020, 262, 118251.	10.8	89
14	Rapid Self-Decomposition of g-C₃N₄ During Gasâ€“Solid Photocatalytic CO₂ Reduction and Its Effects on Performance Assessment. ACS Catalysis, 2022, 12, 4560-4570.	5.5	86
15	Theoretical design and experimental investigation on highly selective Pd particles decorated C3N4 for safe photocatalytic NO purification. Journal of Hazardous Materials, 2020, 392, 122357.	6.5	81
16	Bi quantum dots implanted 2D C-doped BiOCl nanosheets: Enhanced visible light photocatalysis efficiency and reaction pathway. Chinese Journal of Catalysis, 2020, 41, 1430-1438.	6.9	77
17	Pd-TiO2 Schottky heterojunction catalyst boost the electrocatalytic hydrodechlorination reaction. Chemical Engineering Journal, 2020, 381, 122673.	6.6	75
18	Biomimetic Mineralization Guided One-Pot Preparation of Gold Clusters Anchored Two-Dimensional MnO₂ Nanosheets for Fluorometric/Magnetic Bimodal Sensing. Analytical Chemistry, 2018, 90, 2926-2932.	3.2	74

#	Article	IF	Citations
19	Photostable core-shell CdS/ZIF-8 composite for enhanced photocatalytic reduction of CO2. Applied Surface Science, 2019, 498, 143899.	3.1	72
20	Light-Induced Generation and Regeneration of Oxygen Vacancies in BiSbO₄for Sustainable Visible Light Photocatalysis. ACS Applied Materials & Interfaces, 2019, 11, 47984-47991.	4.0	61
21	Nature-inspired CaCO3 loading TiO2 composites for efficient and durable photocatalytic mineralization of gaseous toluene. Science Bulletin, 2020, 65, 1626-1634.	4.3	59
22	Unveiling the unconventional roles of methyl number on the ring-opening barrier in photocatalytic decomposition of benzene, toluene and o-xylene. Applied Catalysis B: Environmental, 2020, 278, 119318.	10.8	57
23	Ultrathin Two-Dimensional Bi-Based photocatalysts: Synthetic strategies, surface defects, and reaction mechanisms. Chemical Engineering Journal, 2021, 417, 129305.	6.6	52
24	In situ loading of MoO3 clusters on ultrathin Bi2MoO6 nanosheets for synergistically enhanced photocatalytic NO abatement. Applied Catalysis B: Environmental, 2021, 292, 120159.	10.8	51
25	Surface Lattice Oxygen Activation on Sr₂Sb₂O₇ Enhances the Photocatalytic Mineralization of Toluene: from Reactant Activation, Intermediate Conversion to Product Desorption. ACS Applied Materials & Interfaces, 2021, 13, 5153-5164.	4.0	46
26	Fabrication of dopamine enveloped WO3â˜x quantum dots as single-NIR laser activated photonic nanodrug for synergistic photothermal/photodynamic therapy against cancer. Chemical Engineering Journal, 2020, 383, 123071.	6.6	45
27	La-doping induced localized excess electrons on (BiO)2CO3 for efficient photocatalytic NO removal and toxic intermediates suppression. Journal of Hazardous Materials, 2020, 400, 123174.	6.5	43
28	Coordination Nanosheets of Phthalocyanine as Multifunctional Platform for Imaging-Guided Synergistic Therapy of Cancer. ACS Applied Materials & Interfaces, 2019, 11, 6840-6849.	4.0	40
29	Interfacial activation of reactants and intermediates on CaSO4 insulator-based heterostructure for efficient photocatalytic NO removal. Chemical Engineering Journal, 2020, 390, 124609.	6.6	39
30	Zn-doping mediated formation of oxygen vacancies in SnO2 with unique electronic structure for efficient and stable photocatalytic toluene degradation. Chinese Journal of Catalysis, 2021, 42, 1195-1204.	6.9	37
31	Promoted reactants activation and charge separation leading to efficient photocatalytic activity on phosphate/potassium co-functionalized carbon nitride. Chinese Chemical Letters, 2019, 30, 875-880.	4.8	34
32	SrTiO3/BiOI heterostructure: Interfacial charge separation, enhanced photocatalytic activity, and reaction mechanism. Chinese Journal of Catalysis, 2020, 41, 710-718.	6.9	32
33	Optimizing the Electronic Structure of BiOBr Nanosheets via Combined Ba Doping and Oxygen Vacancies for Promoted Photocatalysis. Journal of Physical Chemistry C, 2021, 125, 8597-8605.	1.5	31
34	Fabrication of Surface Protein-Imprinted Biofuel Cell for Sensitive Self-Powered Glycoprotein Detection. ACS Applied Materials & Interfaces, 2016, 8, 35004-35011.	4.0	27
35	Porous Mn-doped Co3O4 nanosheets: Gas sensing performance and interfacial mechanism investigation with In situ DRIFTS. Sensors and Actuators B: Chemical, 2022, 353, 131155.	4.0	27
36	Synthesis of Threeâ€Dimensional Nitrogen and Sulfur Dualâ€Doped Graphene Aerogels as an Efficient Metalâ€Free Electrocatalyst for the Oxygen Reduction Reaction. ChemElectroChem, 2017, 4, 1885-1890.	1.7	21

#	Article	IF	Citations
37	Identification of deactivation-resistant origin of In(OH)3 for efficient and durable photodegradation of benzene, toluene and their mixtures. Journal of Hazardous Materials, 2021, 416, 126208.	6.5	21
38	Perovskite Nanocrystalsâ€Based Heterostructures: Synthesis Strategies, Interfacial Effects, and Photocatalytic Applications. Solar Rrl, 2021, 5, 2000419.	3.1	20
39	Chemical Discrimination of Benzene Series and Molecular Recognition of the Sensing Process over Ti-Doped Co₃O₄. ACS Sensors, 2022, 7, 1757-1765.	4.0	17
40	The mechanisms of interfacial charge transfer and photocatalysis reaction over Cs3Bi2Cl9 QD/(BiO)2CO3 heterojunction. Chemical Engineering Journal, 2022, 430, 132974.	6.6	14
41	OH/Na co-functionalized carbon nitride: directional charge transfer and enhanced photocatalytic oxidation ability. Catalysis Science and Technology, 2020, 10, 529-535.	2.1	13
42	Crystal-structure dependent reaction pathways in photocatalytic formaldehyde mineralization on BiPO4. Journal of Hazardous Materials, 2021, 420, 126633.	6.5	13
43	Doping and facet effects synergistically mediated interfacial reaction mechanism and selectivity in photocatalytic NO abatement. Journal of Colloid and Interface Science, 2021, 604, 624-634.	5.0	12
44	Rapid separation and large-scale synthesis of Î²-FeOOH nanospindles for direct coal liquefaction. Fuel Processing Technology, 2017, 165, 80-86.	3.7	11
45	Dual-quantum-dots heterostructure with confined active interface for promoted photocatalytic NO abatement. Journal of Hazardous Materials, 2022, 438, 129463.	6.5	10