Chao Chen

List of Publications by Year
in descending order

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24 papers	2,624 citations	516215 16 h-index	642321 23 g-index
24 all docs	24 docs citations	24 times ranked	3086 citing authors

#	Article	IF	Citations
1	Synergy of Dopants and Defects in Graphitic Carbon Nitride with Exceptionally Modulated Band Structures for Efficient Photocatalytic Oxygen Evolution. Advanced Materials, 2019, 31, e1903545.	11.1	604
2	Isolated single atom cobalt in Bi3O4Br atomic layers to trigger efficient CO2 photoreduction. Nature Communications, 2019, 10, 2840.	5.8	327
3	Defectâ€Tailoring Mediated Electronâ€“Hole Separation in Singleâ€Unitâ€Cell Bi₃O₄Br Nanosheets for Boosting Photocatalytic Hydrogen Evolution and Nitrogen Fixation. Advanced Materials, 2019, 31, e1807576.	11.1	311
4	Bismuth vacancy mediated single unit cell Bi2WO6 nanosheets for boosting photocatalytic oxygen evolution. Applied Catalysis B: Environmental, 2018, 238, 119-125.	10.8	173
5	Bismuth Vacancy-Tuned Bismuth Oxybromide Ultrathin Nanosheets toward Photocatalytic CO₂ Reduction. ACS Applied Materials & Interfaces, 2019, 11, 30786-30792.	4.0	140
6	Monodisperse Dual Plasmonic Au@Cu_{2â€“x}E (E= S, Se) Core@Shell Supraparticles: Aqueous Fabrication, Multimodal Imaging, and Tumor Therapy at in Vivo Level. ACS Nano, 2017, 11, 8273-8281.	7.3	139
7	Cobalt nitride as a novel cocatalyst to boost photocatalytic CO2 reduction. Nano Energy, 2021, 79, 105429.	8.2	117
8	Surface Local Polarization Induced by Bismuthâ€Oxygen Vacancy Pairs Tuning Nonâ€Covalent Interaction for CO₂ Photoreduction. Advanced Energy Materials, 2021, 11, 2102389.	10.2	109
9	Direct Experimental Observation of Facetâ€Dependent SERS of Cu₂O Polyhedra. Small, 2018, 14, 1703274.	5.2	108
10	Defect engineering in atomically-thin bismuth oxychloride towards photocatalytic oxygen evolution. Journal of Materials Chemistry A, 2017, 5, 14144-14151.	5.2	107
11	Target-Triggered Catalytic Hairpin Assembly-Induced Coreâ€“Satellite Nanostructures for High-Sensitive â€œOff-to-Onâ€•SERS Detection of Intracellular MicroRNA. Analytical Chemistry, 2018, 90, 10591-10599.	3.2	85
12	Strain-Engineering of Bi₁₂O₁₇Br₂ Nanotubes for Boosting Photocatalytic CO₂ Reduction. , 2020, 2, 1025-1032.		82
13	Thermalâ€Disrupting Interface Mitigates Intercellular Cohesion Loss for Accurate Topical Antibacterial Therapy. Advanced Materials, 2020, 32, e1907030.	11.1	75
14	Rattle-type Au@Cu 2â^'x S hollow mesoporous nanocrystals with enhanced photothermal efficiency for intracellular oncogenic microRNA detection and chemo-photothermal therapy. Biomaterials, 2018, 158, 23-33.	5.7	68
15	Oxygen vacancy mediated bismuth stannate ultra-small nanoparticle towards photocatalytic CO2-to-CO conversion. Applied Catalysis B: Environmental, 2020, 276, 119156.	10.8	59
16	Highly Sensitive W₁₈O₄₉ Mesocrystal Raman Scattering Substrate with Large-Area Signal Uniformity. Analytical Chemistry, 2021, 93, 3138-3145.	3.2	25
17	Quasi-Metal for Highly Sensitive and Stable Surface-Enhanced Raman Scattering. IScience, 2019, 19, 836-849.	1.9	19
18	Deformable Thermo-Responsive Smart Windows Based on a Shape Memory Polymer for Adaptive Solar Modulations. ACS Applied Materials & Interfaces, 2021, 13, 61196-61204.	4.0	16

#	Article	IF	Citations
19	Decomposition and Energy-Enhancement Mechanism of the Energetic Binder Glycidyl Azide Polymer at Explosive Detonation Temperatures. Journal of Physical Chemistry A, 2020, 124, 5542-5554.	1.1	14
20	Valence Electron Density-Dependent Pseudopermittivity for Nonlocal Effects in Optical Properties of Metallic Nanoparticles. ACS Photonics, 2018, 5, 2295-2304.	3.2	12
21	Orientated dominating charge separation via crystal facet homojunction inserted into BiOBr for solar-driven CO2 conversion. Journal of CO2 Utilization, 2022, 59, 101957.	3.3	11
22	Quasi-metallic Tungsten Oxide Nanodendrites with High Stability for Surface-Enhanced Raman Scattering. Cell Reports Physical Science, 2020, 1, 100031.	2.8	8
23	Amorphous Co(OH)₂ nanocages achieving efficient photo-induced charge transfer for significant SERS activity. Journal of Materials Chemistry C, 2022, 10, 1632-1637.	2.7	8
24	Accurate machine learning models based on small dataset of energetic materials through spatial matrix featurization methods. Journal of Energy Chemistry, 2021, 63, 364-375.	7.1	7