

Bo Weng

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/1598861/publications.pdf>

Version: 2024-02-01

48
papers

3,669
citations

172457

29
h-index

233421

45
g-index

48
all docs

48
docs citations

48
times ranked

4825
citing authors

#	ARTICLE	IF	CITATIONS
1	Photocorrosion Inhibition of Semiconductor-Based Photocatalysts: Basic Principle, Current Development, and Future Perspective. <i>ACS Catalysis</i> , 2019, 9, 4642-4687.	11.2	432
2	Improving the photocatalytic activity and anti-photocorrosion of semiconductor ZnO by coupling with versatile carbon. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 16891.	2.8	374
3	Stabilizing ultrasmall Au clusters for enhanced photoredox catalysis. <i>Nature Communications</i> , 2018, 9, 1543.	12.8	223
4	One-dimensional nanostructure based materials for versatile photocatalytic applications. <i>RSC Advances</i> , 2014, 4, 12685.	3.6	205
5	Toward the enhanced photoactivity and photostability of ZnO nanospheres via intimate surface coating with reduced graphene oxide. <i>Journal of Materials Chemistry A</i> , 2014, 2, 9380.	10.3	204
6	Observing the Role of Graphene in Boosting the Two-Electron Reduction of Oxygen in Graphene@WO ₃ Nanorod Photocatalysts. <i>Langmuir</i> , 2014, 30, 5574-5584.	3.5	192
7	Two-Dimensional MoS ₂ Nanosheet-Coated Bi ₂ S ₃ Discoids: Synthesis, Formation Mechanism, and Photocatalytic Application. <i>Langmuir</i> , 2015, 31, 4314-4322.	3.5	178
8	A simple yet efficient visible-light-driven CdS nanowires-carbon nanotube 1D@1D nanocomposite photocatalyst. <i>Journal of Catalysis</i> , 2014, 309, 146-155.	6.2	161
9	N ₂ Electroreduction to NH ₃ by Selenium Vacancy-Rich ReSe ₂ Catalysis at an Abrupt Interface. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 13320-13327.	13.8	127
10	Vertically aligned ZnO@Au@CdS core-shell nanorod arrays as an all-solid-state vectorial Z-scheme system for photocatalytic application. <i>Journal of Materials Chemistry A</i> , 2016, 4, 18804-18814.	10.3	122
11	Multichannel Charge Transfer and Mechanistic Insight in Metal Decorated 2D@2D Bi ₂ WO ₆ @TiO ₂ Cascade with Enhanced Photocatalytic Performance. <i>Small</i> , 2017, 13, 1702253.	10.0	117
12	Efficient infrared light promoted degradation of volatile organic compounds over photo-thermal responsive Pt-rGO-TiO ₂ composites. <i>Applied Catalysis B: Environmental</i> , 2018, 233, 260-271.	20.2	106
13	Synthesis of In ₂ S ₃ @CNT nanocomposites for selective reduction under visible light. <i>Journal of Materials Chemistry A</i> , 2014, 2, 1710-1720.	10.3	99
14	Efficient promotion of charge transfer and separation in hydrogenated TiO ₂ /WO ₃ with rich surface-oxygen-vacancies for photodecomposition of gaseous toluene. <i>Journal of Hazardous Materials</i> , 2018, 342, 661-669.	12.4	99
15	Decorating geometry- and size-controlled sub-20 nm Pd nanocubes onto 2D TiO ₂ nanosheets for simultaneous H ₂ evolution and 1,1-diethoxyethane production. <i>Journal of Materials Chemistry A</i> , 2016, 4, 18366-18377.	10.3	90
16	Constructing one-dimensional silver nanowire-doped reduced graphene oxide integrated with CdS nanowire network hybrid structures toward artificial photosynthesis. <i>Nanoscale</i> , 2015, 7, 861-866.	5.6	81
17	Synergistic Redox Reaction for Value-Added Organic Transformation via Dual-Functional Photocatalytic Systems. <i>ACS Catalysis</i> , 2021, 11, 4613-4632.	11.2	69
18	Piezopotential-driven simulated electrocatalytic nanosystem of ultrasmall MoC quantum dots encapsulated in ultrathin N-doped graphene vesicles for superhigh H ₂ production from pure water. <i>Nano Energy</i> , 2020, 75, 104990.	16.0	64

#	ARTICLE	IF	CITATIONS
19	Oxygen vacancies mediated charge separation and collection in Pt/WO ₃ nanosheets for enhanced photocatalytic performance. <i>Applied Surface Science</i> , 2020, 507, 145133.	6.1	54
20	Facet Engineering of Pd Nanocrystals for Enhancing Photocatalytic Hydrogenation: Modulation of the Schottky Barrier Height and Enrichment of Surface Reactants. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 13044-13054.	8.0	53
21	What if the Electrical Conductivity of Graphene Is Significantly Deteriorated for the Graphene-Semiconductor Composite-Based Photocatalysis?. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 27948-27958.	8.0	50
22	Revealing the Double-Edged Sword Role of Graphene on Boosted Charge Transfer versus Active Site Control in TiO ₂ /Nanotube Arrays@RGO/MoS ₂ Heterostructure. <i>Small</i> , 2018, 14, e1704531.	10.0	49
23	Metal Halide Perovskite Based Heterojunction Photocatalysts. <i>Angewandte Chemie - International Edition</i> , 2022, 61, .	13.8	48
24	Recent Progress in Pd-Based Nanocatalysts for Selective Hydrogenation. <i>ACS Omega</i> , 2022, 7, 17-31.	3.5	46
25	Titanium Nitride-Supported Platinum with Metal-Support Interaction for Boosting Photocatalytic H ₂ Evolution of Indium Sulfide. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 7238-7247.	8.0	40
26	Ultrathin 2D/2D Ti ₃ C ₂ T _x /semiconductor dual-functional photocatalysts for simultaneous imine production and H ₂ evolution. <i>Journal of Materials Chemistry A</i> , 2021, 9, 19984-19993.	10.3	40
27	Tuning the interfacial electronic structure via Au clusters for boosting photocatalytic H ₂ evolution. <i>Journal of Materials Chemistry A</i> , 2021, 9, 1759-1769.	10.3	33
28	Planar heterojunction boosts solar-driven photocatalytic performance and stability of halide perovskite solar photocatalyst cell. <i>Applied Catalysis B: Environmental</i> , 2022, 301, 120760.	20.2	33
29	Site-Sensitive Selective CO ₂ Photoreduction to CO over Gold Nanoparticles. <i>Angewandte Chemie - International Edition</i> , 2022, 61, e202204563.	13.8	33
30	Edge engineering of platinum nanoparticles via porphyrin-based ultrathin 2D metal-organic frameworks for enhanced photocatalytic hydrogen generation. <i>Chemical Engineering Journal</i> , 2022, 442, 136144.	12.7	31
31	Solar Photocatalytic Oxidation of Methane to Methanol with Water over RuO _x /ZnO/CeO ₂ Nanorods. <i>ACS Sustainable Chemistry and Engineering</i> , 2022, 10, 16-22.	6.7	30
32	In situ synthesis of hierarchical In ₂ S ₃ -graphene nanocomposite photocatalyst for selective oxidation. <i>RSC Advances</i> , 2014, 4, 64484-64493.	3.6	28
33	Visualizing light-induced dynamic structural transformations of Au clusters-based photocatalyst via in situ TEM. <i>Nano Research</i> , 2021, 14, 2805-2809.	10.4	24
34	Photothermal Suzuki Coupling Over a Metal Halide Perovskite/Pd Nanocube Composite Catalyst. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 17185-17194.	8.0	23
35	N ₂ Electroreduction to NH ₃ by Selenium Vacancy-Rich ReSe ₂ Catalysis at an Abrupt Interface. <i>Angewandte Chemie</i> , 2020, 132, 13422-13429.	2.0	18
36	Zero-degree photochemical synthesis of highly dispersed Pt/TiO ₂ for enhanced photocatalytic hydrogen generation. <i>Journal of Alloys and Compounds</i> , 2020, 849, 156634.	5.5	16

#	ARTICLE	IF	CITATIONS
37	Rapid solute transfer photocatalytic membrane: The combination of host-guest interaction and photocatalyst load. <i>Chemical Engineering Journal</i> , 2022, 446, 137316.	12.7	12
38	Improving the Photostability of Ultrasmall Au Clusters via a Combined Strategy of Surface Engineering and Interfacial Modification. <i>Langmuir</i> , 2019, 35, 5728-5736.	3.5	11
39	Metal Halide Perovskite Based Heterojunction Photocatalysts. <i>Angewandte Chemie</i> , 2022, 134, .	2.0	11
40	Solar-to-Chemical Fuel Conversion via Metal Halide Perovskite Solar-Driven Electrocatalysis. <i>Journal of Physical Chemistry Letters</i> , 2022, 13, 25-41.	4.6	10
41	Photocatalytic Anaerobic Dehydrogenation of Alcohols over Metal Halide Perovskites: A New Acid-Free Scheme for H ₂ Production. <i>Journal of Physical Chemistry Letters</i> , 2022, 13, 6559-6565.	4.6	10
42	Photocatalytic Anaerobic Oxidation of Aromatic Alcohols Coupled With H ₂ Production Over CsPbBr ₃ /GO-Pt Catalysts. <i>Frontiers in Chemistry</i> , 2022, 10, 833784.	3.6	8
43	A redox-active support for the synthesis of Au@SnO ₂ core-shell nanostructure and SnO ₂ quantum dots with efficient photoactivities. <i>RSC Advances</i> , 2020, 10, 33955-33961.	3.6	5
44	Site-Sensitive Selective CO ₂ Photoreduction to CO over Gold Nanoparticles. <i>Angewandte Chemie</i> , 2022, 134, .	2.0	5
45	Photocatalysis: Revealing the Double-Edged Sword Role of Graphene on Boosted Charge Transfer versus Active Site Control in TiO ₂ Nanotube Arrays@RGO/MoS ₂ Heterostructure (<i>Small</i> 21/2018). <i>Small</i> , 2018, 14, 1870096.	10.0	3
46	Optimized colloidal growth of hexagonal close-packed Ag microparticles and their stability under catalytic conditions. <i>New Journal of Chemistry</i> , 0, , .	2.8	1
47	Steric effects of a homogeneous CuCl ₂ /solvent system for photocatalytic selective oxidation of benzyl alcohol. <i>New Journal of Chemistry</i> , 0, , .	2.8	1
48	The Applications of Graphene-based Nanocomposites in the Field of Photocatalytic Selective Organic Transformations. <i>World Scientific Series in Nanoscience and Nanotechnology</i> , 2016, , 81-115.	0.1	0