

Lingxia Zheng

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43
papers

3,262
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47
g-index

47
ext. papers

3,990
ext. citations

10
avg, IF

5.71
L-index

#	Paper	IF	Citations
43	An Ultrahigh Responsivity (9.7 mA W ⁻¹) Self-Powered Solar-Blind Photodetector Based on Individual ZnO@Ga ₂ O ₃ Heterostructures. <i>Advanced Functional Materials</i> , 2017 , 27, 1700264	15.6	441
42	Hierarchical MoS ₂ Nanosheet@TiO ₂ Nanotube Array Composites with Enhanced Photocatalytic and Photocurrent Performances. <i>Small</i> , 2016 , 12, 1527-36	11	387
41	A Novel Sustainable Flour Derived Hierarchical Nitrogen-Doped Porous Carbon/Polyaniline Electrode for Advanced Asymmetric Supercapacitors. <i>Advanced Energy Materials</i> , 2016 , 6, 1601111	21.8	241
40	Ultrasensitive Self-Powered Solar-Blind Deep-Ultraviolet Photodetector Based on All-Solid-State Polyaniline/MgZnO Bilayer. <i>Small</i> , 2016 , 12, 5809-5816	11	186
39	Novel Composites of Fe ₂ O ₃ Tetraikadecahedron and Graphene Oxide as an Effective Photoelectrode with Enhanced Photocurrent Performances. <i>Advanced Functional Materials</i> , 2016 , 26, 3331-3339	15.6	165
38	Electrochemical doping of anatase TiO ₂ in organic electrolytes for high-performance supercapacitors and photocatalysts. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 229-236	13	146
37	Novel UV-Visible Photodetector in Photovoltaic Mode with Fast Response and Ultrahigh Photosensitivity Employing Se/TiO Nanotubes Heterojunction. <i>Small</i> , 2017 , 13, 1602448	11	145
36	Binary response Se/ZnO p-n heterojunction UV photodetector with high on/off ratio and fast speed. <i>Laser and Photonics Reviews</i> , 2017 , 11, 1600257	8.3	142
35	Photo/Electrochemical Applications of Metal Sulfide/TiO ₂ Heterostructures. <i>Advanced Energy Materials</i> , 2020 , 10, 1902355	21.8	133
34	Large scale, highly efficient and self-powered UV photodetectors enabled by all-solid-state n-TiO ₂ nanowell/p-NiO mesoporous nanosheet heterojunctions. <i>Journal of Materials Chemistry C</i> , 2016 , 4, 10032-10039 ¹¹⁰	7.1	110
33	Novel p-n Heterojunctions Self-Powered Broadband Photodetectors with Ultrafast Speed and High Responsivity. <i>Advanced Functional Materials</i> , 2017 , 27, 1703166	15.6	101
32	Scalable-Production, Self-Powered TiO Nanowell-Organic Hybrid UV Photodetectors with Tunable Performances. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 33924-33932	9.5	97
31	Broadband Photoresponse Enhancement of a High-Performance t-Se Microtube Photodetector by Plasmonic Metallic Nanoparticles. <i>Advanced Functional Materials</i> , 2016 , 26, 6641-6648	15.6	94
30	A surface oxide thin layer of copper nanowires enhanced the UV selective response of a ZnO film photodetector. <i>Journal of Materials Chemistry C</i> , 2016 , 4, 8416-8421	7.1	91
29	Shell-thickness dependent electron transfer and relaxation in type-II core-shell CdS/TiO ₂ structures with optimized photoelectrochemical performance. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 22627-22635	13	78
28	Self-ordered Nanotubular TiO ₂ Multilayers for High-Performance Photocatalysts and Supercapacitors. <i>Electrochimica Acta</i> , 2016 , 203, 257-264	6.7	70
27	Uniform carbon-coated CdS core-shell nanostructures: synthesis, ultrafast charge carrier dynamics, and photoelectrochemical water splitting. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 1078-1086	13	66

26	Novel Structure for High Performance UV Photodetector Based on BiOCl/ZnO Hybrid Film. <i>Small</i> , 2017 , 13, 1700156	11	63
25	Efficiency enhancement of TiO ₂ self-powered UV photodetectors using a transparent Ag nanowire electrode. <i>Journal of Materials Chemistry C</i> , 2018 , 6, 3334-3340	7.1	56
24	Porous TiO ₂ Photonic Band Gap Materials by Anodization. <i>Journal of Physical Chemistry C</i> , 2012 , 116, 5509-5515	3.8	56
23	Wavelength-Tunable Electroluminescent Light Sources from Individual Ga-Doped ZnO Microwires. <i>Small</i> , 2017 , 13, 1604034	11	50
22	Self-Powered Flexible TiO ₂ Fibrous Photodetectors: Heterojunction with P3HT and Boosted Responsivity and Selectivity by Au Nanoparticles. <i>Advanced Functional Materials</i> , 2020 , 30, 2001604	15.6	38
21	Carbon nanomaterials with sp ² or/and sp hybridization in energy conversion and storage applications: A review. <i>Energy Storage Materials</i> , 2020 , 26, 349-370	19.4	35
20	One-pot synthesis of CoFeO/rGO hybrid hydrogels with 3D networks for high capacity electrochemical energy storage devices.. <i>RSC Advances</i> , 2018 , 8, 8607-8614	3.7	34
19	Inert basal plane activation of two-dimensional ZnIn ₂ S ₄ via Ni atom doping for enhanced co-catalyst free photocatalytic hydrogen evolution. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 13376-13384	13	33
18	Construction of self-supported hierarchical NiCo-S nanosheet arrays for supercapacitors with ultrahigh specific capacitance. <i>Nanoscale</i> , 2020 , 12, 13811-13821	7.7	31
17	Rational design of a sandwiched structure Ni(OH) ₂ nanohybrid sustained by amino-functionalized graphene quantum dots for outstanding capacitance. <i>Applied Surface Science</i> , 2019 , 480, 727-737	6.7	28
16	High-performance supercapacitors based on amorphous C-modified anodic TiO ₂ nanotubes. <i>Applied Surface Science</i> , 2016 , 362, 399-405	6.7	28
15	Protruding Pt single-sites on hexagonal ZnInS to accelerate photocatalytic hydrogen evolution.. <i>Nature Communications</i> , 2022 , 13, 1287	17.4	24
14	Black Phosphorus Quantum Dot-Sensitized TiO ₂ Nanotube Arrays with Enriched Oxygen Vacancies for Efficient Photoelectrochemical Water Splitting. <i>ACS Sustainable Chemistry and Engineering</i> , 2020 , 8, 15906-15914	8.3	22
13	Ultrafine CoP _x Nanoparticles Anchored on Nitrogen Doped Reduced Graphene Oxides for Superior Hydrogenation in Alkaline Media. <i>Advanced Materials Interfaces</i> , 2018 , 5, 1800515	4.6	18
12	Amphiphilic Carbon Quantum Dots as a Bridge to a Pseudohomogeneous Catalyst for Selective Oxidative Cracking of Alkenes to Aldehydes: A Nonmetallic Oxidation System. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 31360-31371	9.5	12
11	Construction of Ultrathin Nitrogen-Doped Porous Carbon Nanospheres Coated With Polyaniline Nanorods for Asymmetric Supercapacitors. <i>Frontiers in Chemistry</i> , 2019 , 7, 455	5	9
10	Machine Learning Guided Dopant Selection for Metal Oxide based Photoelectrochemical Water Splitting: The Case Study of Fe O and CuO.. <i>Advanced Materials</i> , 2021 , e2106776	24	6
9	Pseudohomogeneous metallic catalyst based on tungstate-decorated amphiphilic carbon quantum dots for selective oxidative scission of alkenes to aldehyde. <i>Scientific Reports</i> , 2021 , 11, 4411	4.9	6

8	Morphology- and Size-Controlled Fabrication of CdS from Flower-Like to Spherical Structures and their Application for High-Performance Photoactivity. <i>European Journal of Inorganic Chemistry</i> , 2019 , 2019, 2086-2092	2.3	4
7	Ultrathin 2D flower-like CoP@C with the active (211) facet for efficient electrocatalytic water splitting. <i>CrystEngComm</i> , 2021 , 23, 1777-1784	3.3	4
6	Manganese doping to boost the capacitance performance of hierarchical Co ₉ S ₈ @Co(OH) ₂ nanosheet arrays. <i>Green Energy and Environment</i> , 2021 ,	5.7	4
5	Dramatic Responsivity Enhancement Through Concentrated H ₂ SO ₄ Treatment on PEDOT:PSS/TiO ₂ Heterojunction Fibrous Photodetectors. <i>Small</i> , 2021 , 17, e2101674	11	4
4	Copper doped Co _x @Co(OH) ₂ hierarchical mesoporous nanosheet arrays as binder-free electrodes for superior supercapacitors. <i>Journal of Alloys and Compounds</i> , 2022 , 165115	5.7	2
3	Facile construction TiO ₂ /ZnIn ₂ S ₄ /Zn _{0.4} Ca _{0.6} In ₂ S ₄ ternary hetero-structure photo-anode with enhanced photo-electrochemical water-splitting performance. <i>Surfaces and Interfaces</i> , 2021 , 26, 101323 ^{4.1}		○
2	Unique core-shell Co ₂ (OH) ₂ CO ₃ @MOF nanoarrays with remarkably improved cycling life for high performance pseudocapacitors. <i>Electrochimica Acta</i> , 2022 , 412, 140142	6.7	○
1	TiO@PDA inorganic-organic core-shell skeleton supported Pd nanodots for enhanced electrocatalytic hydrodechlorination.. <i>Journal of Hazardous Materials</i> , 2022 , 435, 128998	12.8	○