Xin Yu

List of Publications by Year
in descending order

57 papers	3,433 citations	147801 31 h-index	149698 56 g-index
57 all docs	57 docs citations	57 times ranked	4751 citing authors

#	Article	IF	Citations
1	Self-Powered Electrical Stimulation for Enhancing Neural Differentiation of Mesenchymal Stem Cells on Grapheneâ€“Poly(3,4-ethylenedioxythiophene) Hybrid Microfibers. ACS Nano, 2016, 10, 5086-5095.	14.6	249
2	Engineering the Absorption and Field Enhancement Properties of Auâ€“TiO₂ Nanohybrids via Whispering Gallery Mode Resonances for Photocatalytic Water Splitting. ACS Nano, 2016, 10, 4496-4503.	14.6	230
3	An Allâ€Organic Semiconductor C₃N₄/PDINH Heterostructure with Advanced Antibacterial Photocatalytic Therapy Activity. Advanced Materials, 2019, 31, e1901965.	21.0	215
4	Defectâ€Rich Adhesive Molybdenum Disulfide/rGO Vertical Heterostructures with Enhanced Nanozyme Activity for Smart Bacterial Killing Application. Advanced Materials, 2020, 32, e2005423.	21.0	207
5	Degradation of polyvinyl chloride microplastics via an electro-Fenton-like system with a TiO2/graphite cathode. Journal of Hazardous Materials, 2020, 399, 123023.	12.4	194
6	Piezoelectricâ€Effectâ€Enhanced Fullâ€Spectrum Photoelectrocatalysis in pâ€“n Heterojunction. Advanced Functional Materials, 2019, 29, 1807279.	14.9	147
7	NiOâ€“TiO2 pâ€“n heterostructured nanocables bridged by zero-bandgap rGO for highly efficient photocatalytic water splitting. Nano Energy, 2015, 16, 207-217.	16.0	136
8	Heterostructured nanorod array with piezophototronic and plasmonic effect for photodynamic bacteria killing and wound healing. Nano Energy, 2018, 46, 29-38.	16.0	132
9	Construction of a 3D rGOâ€“collagen hybrid scaffold for enhancement of the neural differentiation of mesenchymal stem cells. Nanoscale, 2016, 8, 1897-1904.	5.6	127
10	Hierarchical TiO2 nanowire/graphite fiber photoelectrocatalysis setup powered by a wind-driven nanogenerator: A highly efficient photoelectrocatalytic device entirely based on renewable energy. Nano Energy, 2015, 11, 19-27.	16.0	107
11	Effects of Graphene Quantum Dots on the Selfâ€Renewal and Differentiation of Mesenchymal Stem Cells. Advanced Healthcare Materials, 2016, 5, 702-710.	7.6	103
12	Microenvironment-Driven Bioelimination of Magnetoplasmonic Nanoassemblies and Their Multimodal Imaging-Guided Tumor Photothermal Therapy. ACS Nano, 2016, 10, 7094-7105.	14.6	97
13	A Titanium Nitride Nanozyme for pHâ€Responsive and Irradiationâ€Enhanced Cascadeâ€Catalytic Tumor Therapy. Angewandte Chemie - International Edition, 2021, 60, 25328-25338.	13.8	88
14	Microwave-assisted hydrothermal synthesis of Sn3O4 nanosheet/rGO planar heterostructure for efficient photocatalytic hydrogen generation. Applied Catalysis B: Environmental, 2018, 227, 470-476.	20.2	86
15	Structural effect of Fe3O4 nanoparticles on peroxidase-like activity for cancer therapy. Colloids and Surfaces B: Biointerfaces, 2017, 154, 239-245.	5.0	79
16	Piezopotential augmented photo- and photoelectro-catalysis with a built-in electric field. Chinese Journal of Catalysis, 2020, 41, 534-549.	14.0	75
17	Band structure engineering of bioinspired Fe doped SrMoO4 for enhanced photocatalytic nitrogen reduction performance. Nano Energy, 2019, 66, 104187.	16.0	71
18	Hierarchical hybrid nanostructures of Sn₃O₄ on N doped TiO₂ nanotubes with enhanced photocatalytic performance. Journal of Materials Chemistry A, 2015, 3, 19129-19136.	10.3	70

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19	Rutile Nanorod/Anatase Nanowire Junction Array as Both Sensor and Power Supplier for Highâ€Performance, Selfâ€Powered, Wireless UV Photodetector. Small, 2016, 12, 2759-2767.	10.0	66
20	Full Solarâ€Spectrumâ€Driven Antibacterial Therapy over Hierarchical Sn₃O₄/PDINH with Enhanced Photocatalytic Activity. Small, 2021, 17, e2102744.	10.0	64
21	One-step synthesis of ultrathin nanobelts-assembled urchin-like anatase TiO₂nanostructures for highly efficient photocatalysis. CrystEngComm, 2017, 19, 129-136.	2.6	54
22	A Microorganism Bred TiO₂/Au/TiO₂ Heterostructure for Whispering Gallery Mode Resonance Assisted Plasmonic Photocatalysis. ACS Nano, 2020, 14, 13876-13885.	14.6	54
23	Heterojunction of Vertically Arrayed MoS₂ Nanosheet/N-Doped Reduced Graphene Oxide Enabling a Nanozyme for Sensitive Biomolecule Monitoring. Analytical Chemistry, 2021, 93, 11123-11132.	6.5	52
24	Killing two birds with one stone: To eliminate the toxicity and enhance the photocatalytic property of CdS nanobelts by assembling ultrafine TiO2 nanowires on them. Solar Energy Materials and Solar Cells, 2018, 183, 41-47.	6.2	50
25	Cellâ€Tractionâ€Triggered Onâ€Demand Electrical Stimulation for Neuronâ€Like Differentiation. Advanced Materials, 2021, 33, e2106317.	21.0	49
26	A Nanostructured Molybdenum Disulfide Film for Promoting Neural Stem Cell Neuronal Differentiation: toward a Nerve Tissueâ€Engineered 3D Scaffold. Advanced Biology, 2017, 1, e1600042.	3.0	45
27	Ultrafine Si nanowires/Sn3O4 nanosheets 3D hierarchical heterostructured array as a photoanode with high-efficient photoelectrocatalytic performance. Applied Catalysis B: Environmental, 2019, 256, 117798.	20.2	45
28	Surface Reconstruction on Uniform Cu Nanodisks Boosted Electrochemical Nitrate Reduction to Ammonia. , 2022, 4, 650-656.		42
29	Construction of titanium dioxide nanorod/graphite microfiber hybrid electrodes for a high performance electrochemical glucose biosensor. Nanoscale, 2016, 8, 9382-9389.	5.6	39
30	Nanostructured molybdenum disulfide biointerface for adhesion and osteogenic differentiation of mesenchymal stem cells. Applied Materials Today, 2018, 10, 164-172.	4.3	37
31	Top or Bottom, Assembling Modules Determine the Photocatalytic Property of the Sheetlike Nanostructured Hybrid Photocatalyst Composed with Sn₃O₄ and rGO (GQD). ACS Sustainable Chemistry and Engineering, 2018, 6, 11775-11782.	6.7	37
32	Electrochemical detection of adenine and guanine using a three-dimensional WS2 nanosheet/graphite microfiber hybrid electrode. Electrochemistry Communications, 2019, 99, 75-80.	4.7	34
33	TiO₂/TiN core/shell nanobelts for efficient solar hydrogen generation. Chemical Communications, 2018, 54, 6056-6059.	4.1	30
34	Microflowers Comprised of Cu/Cu_xO/NC Nanosheets as Electrocatalysts and Horseradish Peroxidase Mimics. ACS Applied Nano Materials, 2020, 3, 617-623.	5.0	30
35	TiO2 electrocatalysis via three-electron oxygen reduction for highly efficient generation of hydroxyl radicals. Electrochemistry Communications, 2020, 113, 106687.	4.7	28
36	Visible light active and noble metal free Nb4N5/TiO2 nanobelt surface heterostructure for plasmonic enhanced solar water splitting. Chemical Engineering Journal, 2020, 402, 126226.	12.7	27

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37	Efficiently degradation of polyacrylamide pollution using a full spectrum Sn3O4 nanosheet/Ni foam heterostructure photoelectrocatalyst. Catalysis Today, 2019, 335, 520-526.	4.4	26
38	High-performance wearable supercapacitors fabricated with surface activated continuous filament graphite fibers. Journal of Power Sources, 2017, 358, 13-21.	7.8	22
39	Electrochemical detection of DNA hybridization based on three-dimensional ZnO nanowires/graphite hybrid microfiber structure. Bioelectrochemistry, 2019, 128, 126-132.	4.6	22
40	Crystalline Ni-Doped Sn₃O₄ Nanosheets for Photocatalytic H₂ Production. ACS Applied Nano Materials, 2020, 3, 9268-9275.	5.0	22
41	Synergy between nanozymes and natural enzymes on the hybrid MoS2 nanosheets/graphite microfiber for enhanced voltammetric determination of hydrogen peroxide. Mikrochimica Acta, 2020, 187, 321.	5.0	22
42	Sn/Sn3O4â^'x heterostructure rich in oxygen vacancies with enhanced visible light photocatalytic oxidation performance. International Journal of Minerals, Metallurgy and Materials, 2021, 28, 150-159.	4.9	22
43	Ligand-free upconversion nanoparticles for cell labeling and their effects on stem cell differentiation. Nanotechnology, 2020, 31, 145101.	2.6	15
44	Stem Cell Membraneâ€Encapsulated Zeolitic Imidazolate Frameworkâ€8: A Targeted Nanoâ€Platform for Osteogenic Differentiation. Small, 2022, 18, .	10.0	12
45	NaGdF4:Yb/Er nanoparticles of different sizes for tracking mesenchymal stem cells and their effects on cell differentiation. Materials Science and Engineering C, 2020, 111, 110827.	7.3	11
46	Static pressure-induced neural differentiation of mesenchymal stem cells. Nanoscale, 2017, 9, 10031-10037.	5.6	9
47	Scaly Graphene Oxide/Graphite Fiber Hybrid Electrodes for DNA Biosensors. Advanced Materials Interfaces, 2015, 2, 1500072.	3.7	8
48	A Titanium Nitride Nanozyme for pHâ€Responsive and Irradiationâ€Enhanced Cascadeâ€Catalytic Tumor Therapy. Angewandte Chemie, 2021, 133, 25532-25542.	2.0	8
49	Nanostructured titanium foam with metal ions incorporation for promoting osteogenic differentiation of mesenchymal stem cells. Journal of Alloys and Compounds, 2017, 729, 816-822.	5.5	6
50	An In Situ Polymerizationâ€Encapsulation Approach to Prepare TiO₂â€“Graphite Carbonâ€“Au Photocatalysts for Efficient Photocatalysis. Particle and Particle Systems Characterization, 2018, 35, 1700297.	2.3	6
51	Creating a bipolar electrode system for electrochemical advanced oxidative processes with efficient electricity consumption. Journal of Environmental Chemical Engineering, 2021, 9, 105694.	6.7	6
52	Plasmonâ€Enhanced Photocatalytic Activity of Organic Heterostructure for Indoorâ€Light Antibacterial Therapy. Advanced Therapeutics, 2022, 5, .	3.2	6
53	Serendipity for Topological Insulator as Multifunctional Electrocatalyst. ACS Applied Energy Materials, 2020, 3, 8929-8936.	5.1	5
54	Enhanced Antibacterial Photocatalytic Activity of Porous Few-Layer C₃N₄. Journal of Nanoscience and Nanotechnology, 2020, 20, 5944-5950.	0.9	4

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55	Effects of scandium chloride on osteogenic and adipogenic differentiation of mesenchymal stem cells. Journal of Rare Earths, 2022, 40, 161-168.	4.8	2
56	Photoelectrochemical Clothianidin Detection Based on a WO₃/CdS Heterostructure Coated with a Molecularly Imprinted Thin Film. Analysis & Sensing, 2022, 2, .	2.0	2
57	Ferromagnetic coupling in a two-dimensional Cairo pentagonal Ni2(TCNQ)2 lattice. Journal of Materiomics, 2022, 8, 627-632.	5.7	1