Yu-Xi Huang

List of Publications by Year
in descending order

47 papers	3,865 citations	136950 32 h-index	223800 46 g-index
47 all docs	47 docs citations	47 times ranked	6549 citing authors

#	Article	IF	Citations
1	Interpreting contact angles of surfactant solutions on microporous hydrophobic membranes. , 2022, 2, 100015.		7
2	Comparing biotransformation of extracellular polymeric substances (EPS) under aerobic and anoxic conditions: Reactivities, components, and bacterial responses. Chemosphere, 2022, 296, 133996.	8.2	10
3	Hierarchical Janus membrane with superior fouling and wetting resistance for efficient water recovery from challenging wastewater via membrane distillation. Journal of Membrane Science, 2021, 618, 118676.	8.2	50
4	Liquid-like surface modification for effective anti-scaling membrane distillation with uncompromised flux. Journal of Membrane Science, 2021, 637, 119673.	8.2	16
5	A â€œGraft toâ€•Electrospun Zwitterionic Bilayer Membrane for the Separation of Hydraulic Fracturing-Produced Water via Membrane Distillation. Membranes, 2020, 10, 402.	3.0	18
6	Selective electrochemical CO2 reduction on Cu-Pd heterostructure. Applied Catalysis B: Environmental, 2020, 270, 118864.	20.2	66
7	Enhanced adsorption and slow release of phosphate by dolomiteâ€“alginate composite beads as potential fertilizer. Water Environment Research, 2019, 91, 797-804.	2.7	25
8	Biogenic Synthesis of Pd-Based Nanoparticles with Enhanced Catalytic Activity. ACS Applied Nano Materials, 2018, 1, 1467-1475.	5.0	25
9	An integrated electrochemical and biochemical system for sequential reduction of CO2 to methane. Fuel, 2018, 220, 8-13.	6.4	28
10	Coaxially electrospun super-amphiphobic silica-based membrane for anti-surfactant-wetting membrane distillation. Journal of Membrane Science, 2017, 531, 122-128.	8.2	100
11	Electrochemical activities of Geobacter biofilms growing on electrodes with various potentials. Electrochimica Acta, 2017, 225, 452-457.	5.2	32
12	Novel Janus Membrane for Membrane Distillation with Simultaneous Fouling and Wetting Resistance. Environmental Science & Technology, 2017, 51, 13304-13310.	10.0	227
13	Methane production improvement and associated methanogenic assemblages in bioelectrochemically assisted anaerobic digestion. Biochemical Engineering Journal, 2017, 117, 105-112.	3.6	82
14	Layer-controlled growth of MoS2 on self-assembled flower-like Bi2S3 for enhanced photocatalysis under visible light irradiation. NPG Asia Materials, 2016, 8, e263-e263.	7.9	72
15	Photocatalytic degradation of atrazine by boron-doped TiO2 with a tunable rutile/anatase ratio. Applied Catalysis B: Environmental, 2016, 195, 69-76.	20.2	142
16	Controlled synthesis of Auâ€“Fe heterodimer nanoparticles and their conversion into Auâ€“Fe₃O₄heterostructured nanoparticles. Nanoscale, 2016, 8, 17947-17952.	5.6	44
17	Self-induced synthesis of phase-junction TiO2 with a tailored rutile to anatase ratio below phase transition temperature. Scientific Reports, 2016, 6, 20491.	3.3	97
18	Preparation of microvillus-like nitrogen-doped carbon nanotubes as the cathode of a microbial fuel cell. Journal of Materials Chemistry A, 2016, 4, 1632-1636.	10.3	54

#	Article	IF	Citations
19	Hydrogen production from the dissolution of nano zero valent iron and its effect on anaerobic digestion. Water Research, 2016, 88, 475-480.	11.3	83
20	Synthesis of BiOCl_xBr_{1â^'x} Nanoplate Solid Solutions as a Robust Photocatalyst with Tunable Band Structure. Chemistry - A European Journal, 2015, 21, 11872-11877.	3.3	65
21	Electrocatalytic hydrodehalogenation of atrazine in aqueous solution by Cu@Pd/Ti catalyst. Chemosphere, 2015, 125, 57-63.	8.2	22
22	A robust cocatalyst Pd₄S uniformly anchored onto Bi₂S₃ nanorods for enhanced visible light photocatalysis. Journal of Materials Chemistry A, 2015, 3, 4301-4306.	10.3	45
23	Layered cobalt nickel silicate hollow spheres as a highly-stable supercapacitor material. Applied Energy, 2015, 153, 63-69.	10.1	78
24	A highly-ordered and uniform sunflower-like dendritic silver nanocomplex array as reproducible SERS substrate. RSC Advances, 2015, 5, 3860-3867.	3.6	8
25	An oxygen reduction catalyst derived from a robust Pd-reducing bacterium. Nano Energy, 2015, 12, 33-42.	16.0	53
26	Tuning the catalytic selectivity in electrochemical CO2 reduction on copper oxide-derived nanomaterials. Frontiers of Environmental Science and Engineering, 2015, 9, 861-866.	6.0	27
27	Characterization of a new electrochemically active bacterium, Lysinibacillus sphaericus D-8, isolated with a WO3 nanocluster probe. Process Biochemistry, 2014, 49, 290-294.	3.7	24
28	Light-driven microbial dissimilatory electron transfer to hematite. Physical Chemistry Chemical Physics, 2014, 16, 23003-23011.	2.8	41
29	Reduced Graphene Oxide Supported Palladium Nanoparticles via Photoassisted Citrate Reduction for Enhanced Electrocatalytic Activities. ACS Applied Materials & Interfaces, 2014, 6, 15795-15801.	8.0	67
30	Preparation of a macroporous flexible three dimensional graphene sponge using an ice-template as the anode material for microbial fuel cells. RSC Advances, 2014, 4, 21619-21624.	3.6	87
31	Efficient electrochemical CO2 reduction on a unique chrysanthemum-like Cu nanoflower electrode and direct observation of carbon deposite. Electrochimica Acta, 2014, 139, 137-144.	5.2	118
32	Conductive Carbon Nanotube Hydrogel as a Bioanode for Enhanced Microbial Electrocatalysis. ACS Applied Materials & Interfaces, 2014, 6, 8158-8164.	8.0	118
33	Synthesis of Layered MnO2 Nanosheets for Enhanced Oxygen Reduction Reaction Catalytic Activity. Electrochimica Acta, 2014, 132, 239-243.	5.2	49
34	Experimental and Theoretical Demonstrations for the Mechanism behind Enhanced Microbial Electron Transfer by CNT Network. Scientific Reports, 2014, 4, 3732.	3.3	42
35	Three-dimensional bimetallic Pdâ€“Cu nanodendrites with superior electrochemical performance for oxygen reduction reaction. Electrochimica Acta, 2013, 89, 24-28.	5.2	52
36	Phenothiazine Derivative-Accelerated Microbial Extracellular Electron Transfer in Bioelectrochemical System. Scientific Reports, 2013, 3, 1616.	3.3	30

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37	Monodisperse M_xFe_{3â€“x}O₄(M = Fe, Cu, Co, Mn) Nanoparticles and Their Electrocatalysis for Oxygen Reduction Reaction. Nano Letters, 2013, 13, 2947-2951.	9.1	421
38	Photoautotrophic cathodic oxygen reduction catalyzed by a green alga, Chlamydomonas reinhardtii. Biotechnology and Bioengineering, 2013, 110, 173-179.	3.3	28
39	Anodic Fenton process assisted by a microbial fuel cell for enhanced degradation of organic pollutants. Water Research, 2012, 46, 4371-4378.	11.3	56
40	Facile synthesis of concave decahedra enclosed by high-index facets and truncated decahedra with a large size. Dalton Transactions, 2012, 41, 4948.	3.3	6
41	Graphene oxide nanoribbons greatly enhance extracellular electron transfer in bio-electrochemical systems. Chemical Communications, 2011, 47, 5795.	4.1	116
42	Carbon nanotube/chitosan nanocomposite as a biocompatible biocathode material to enhance the electricity generation of a microbial fuel cell. Energy and Environmental Science, 2011, 4, 1422.	30.8	116
43	Development of a Novel Bioelectrochemical Membrane Reactor for Wastewater Treatment. Environmental Science & Technology, 2011, 45, 9256-9261.	10.0	163
44	Highly Durable N-Doped Graphene/CdS Nanocomposites with Enhanced Photocatalytic Hydrogen Evolution from Water under Visible Light Irradiation. Journal of Physical Chemistry C, 2011, 115, 11466-11473.	3.1	544
45	Integration of a microbial fuel cell with activated sludge process for energyâ€saving wastewater treatment: Taking a sequencing batch reactor as an example. Biotechnology and Bioengineering, 2011, 108, 1260-1267.	3.3	72
46	A new cathodic electrode deposit with palladium nanoparticles for cost-effective hydrogen production in a microbial electrolysis cell. International Journal of Hydrogen Energy, 2011, 36, 2773-2776.	7.1	101
47	Nano-structured manganese oxide as a cathodic catalyst for enhanced oxygen reduction in a microbial fuel cell fed with a synthetic wastewater. Water Research, 2010, 44, 5298-5305.	11.3	138