Hongbing Yu

List of Publications by Year
in descending order

82 papers	4,125 citations	101543 36 h-index	114465 63 g-index
82 all docs	82 docs citations	82 times ranked	4217 citing authors

#	Article	IF	Citations
1	Coral-like WO3/BiVO4 photoanode constructed via morphology and facet engineering for antibiotic wastewater detoxification and hydrogen recovery. Chemical Engineering Journal, 2022, 428, 131817.	12.7	31
2	Tungsten oxide quantum dots deposited onto ultrathin CdIn2S4 nanosheets for efficient S-scheme photocatalytic CO2 reduction via cascade charge transfer. Chemical Engineering Journal, 2022, 428, 131218.	12.7	58
3	Construction of cleaner production management system in China: mode innovation of cleaner production. Environmental Science and Pollution Research, 2022, 29, 17626-17644.	5.3	2
4	Synergy of developed micropores and electronic structure defects in carbon-doped boron nitride for CO2 capture. Science of the Total Environment, 2022, 811, 151384.	8.0	12
5	New insights of anaerobic performance, antibiotic resistance gene removal, microbial community structure: applying graphite-based materials in wet anaerobic digestion. Environmental Technology (United Kingdom), 2022, , 1-14.	2.2	0
6	Internal electric field engineering step-schemeâ€“based heterojunction using lead-free Cs3Bi2Br9 perovskiteâ€“modified In4SnS8 for selective photocatalytic CO2 reduction to CO. Applied Catalysis B: Environmental, 2022, 313, 121426.	20.2	53
7	Radical and non-radical cooperative degradation in metal-free electro-Fenton based on nitrogen self-doped biochar. Journal of Hazardous Materials, 2022, 435, 129063.	12.4	32
8	Improved Norfloxacin degradation by urea precipitation Ti/SnO2â€“Sb anode under photo-electro catalysis and kinetics investigation by BP-neural-network-physical modeling. Journal of Cleaner Production, 2021, 280, 124412.	9.3	12
9	Sn nanoparticles deposited onto a gas diffusion layer via impregnation-electroreduction for enhanced CO2 electroreduction to formate. Electrochimica Acta, 2021, 369, 137662.	5.2	15
10	The exploration of Ti/SnO2-Sb anode/air diffusion cathode/UV dual photoelectric catalytic coupling system for the biological harmless treatment of real antibiotic industrial wastewater. Chemical Engineering Journal, 2021, 412, 128581.	12.7	17
11	A novel strategy to achieve simultaneous efficient formate production and p-nitrophenol removal in a co-electrolysis system of CO2 and p-nitrophenol. Journal of CO2 Utilization, 2021, 47, 101497.	6.8	16
12	Degradation of desphenyl chloridazon in a novel synergetic electrocatalytic system with Niâ€“Sbâ€“SnO2/Ti anode and PEDOT/PSS-CNTs modified air diffusion cathode. Journal of Cleaner Production, 2021, 300, 126961.	9.3	15
13	Study of SARS-CoV-2 transmission in urban environment by questionnaire and modeling for sustainable risk control. Journal of Hazardous Materials, 2021, 420, 126621.	12.4	3
14	Application of co-pyrolysis biochar for the adsorption and immobilization of heavy metals in contaminated environmental substrates. Journal of Hazardous Materials, 2021, 420, 126655.	12.4	124
15	Electrochemical removal of NOx by La0.8Sr0.2Mn1â^'xNixO3 electrodes in solid electrolyte cells: Role of Ni substitution. Journal of Hazardous Materials, 2021, 420, 126640.	12.4	8
16	Recent progress in furfural production from hemicellulose and its derivatives: Conversion mechanism, catalytic system, solvent selection. Molecular Catalysis, 2021, 515, 111899.	2.0	23
17	Effects of graphite, graphene, and graphene oxide on the anaerobic co-digestion of sewage sludge and food waste: Attention to methane production and the fate of antibiotic resistance genes. Bioresource Technology, 2021, 339, 125585.	9.6	36
18	Promoted photocatalytic degradation and detoxication performance for norfloxacin on Z-scheme phosphate-doped BiVO4/graphene quantum dots/P-doped g-C3N4. Separation and Purification Technology, 2021, 274, 118692.	7.9	38

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19	Experimental and Kinetic Study on the Production of Furfural and HMF from Glucose. Catalysts, 2021, 11, 11.	3.5	29
20	The innovative application of organosolv lignin for nanomaterial modification to boost its heavy metal detoxification performance in the aquatic environment. Chemical Engineering Journal, 2020, 382, 122789.	12.7	29
21	Degradation of Norfloxacin in saline water by synergistic effect of anode and cathode in a novel photo-electrochemical system. Journal of Cleaner Production, 2020, 242, 118548.	9.3	39
22	La0.75Sr0.25Cr0.5Mn0.5O3-Î´-Ce0.8Sm0.2O1.9 as composite electrodes in symmetric solid electrolyte cells for electrochemical removal of nitric oxide. Applied Catalysis B: Environmental, 2020, 264, 118533.	20.2	13
23	Electro-UV/H2O2 system with RGO-modified air diffusion cathode for simulative antibiotic-manufacture effluent treatment. Chemical Engineering Journal, 2020, 390, 124650.	12.7	17
24	Synthesis of 1D Bi12O17ClxBr2â^'x nanotube solid solutions with rich oxygen vacancies for highly efficient removal of organic pollutants under visible light. Applied Catalysis B: Environmental, 2020, 269, 118774.	20.2	39
25	Direct synthesis of bismuth nanosheets on a gas diffusion layer as a high-performance cathode for a coupled electrochemical system capable of electroreduction of CO2 to formate with simultaneous degradation of organic pollutants. Electrochimica Acta, 2019, 319, 138-147.	5.2	35
26	Electrochemical reduction of NO by solid electrolyte cells with La0.8Sr0.2MnO3-Ce0.8Sm0.2O1.9 composite cathodes. Chemical Engineering Journal, 2019, 378, 122188.	12.7	8
27	Effect of sintering temperature on NO decomposition by solid electrolyte cells with LSM-SDC composite cathodes. Journal of Alloys and Compounds, 2019, 777, 915-925.	5.5	8
28	In-situ electrochemical DeNOx under mild conditions depending on perovskite-modified gas diffusion electrode. Chemical Engineering Journal, 2019, 358, 666-678.	12.7	5
29	Norfloxacin degradation by a green carbon black-Ti/SnO2-Sb electrochemical system in saline water. Catalysis Today, 2019, 327, 308-314.	4.4	30
30	Global characteristics and trends of research on ceramic membranes from 1998 to 2016: Based on bibliometric analysis combined with information visualization analysis. Ceramics International, 2018, 44, 6926-6934.	4.8	39
31	Graphene-doped carbon black gas diffusion electrode for nonmetallic electrochemical advanced oxidation process under mild conditions. Environmental Technology (United Kingdom), 2018, 39, 2959-2966.	2.2	5
32	Direct and potential risk assessment of exposure to volatile organic compounds for primary receptor associated with solvent consumption. Environmental Pollution, 2018, 233, 501-509.	7.5	18
33	PEDOT: PSS-MWCNTs modified carbon black-based gas diffusion electrodes for improved performance of in-situ electrocatalytic flue gas desulfurization. Journal of Cleaner Production, 2018, 200, 1087-1099.	9.3	14
34	Enhanced electroreduction of CO2 and simultaneous degradation of organic pollutants using a Sn-based carbon nanotubes/carbon black hybrid gas diffusion cathode. Journal of CO2 Utilization, 2018, 26, 425-433.	6.8	22
35	Evaluation of cleaner production technology integration for the Chinese herbal medicine industry using carbon flow analysis. Journal of Cleaner Production, 2017, 163, 49-57.	9.3	23
36	Investigation and improvement of a novel double-working-electrode electrochemical system for organic matter treatment from high-salinity wastewater. Environmental Technology (United) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 57 Td	2.2	7

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37	Performance and Mechanism of In Situ Electro-Catalytic Flue Gas Desulfurization via Carbon Black-Based Gas Diffusion Electrodes Doped with MWCNTs. Electrocatalysis, 2017, 8, 103-114.	3.0	5
38	In-situ electrochemical NO x removal process for the lean-burn engine exhaust based on carbon black gas diffusion electrode. Journal of Cleaner Production, 2017, 151, 465-474.	9.3	11
39	Electrodeposition of tin on Nafion-bonded carbon black as an active catalyst layer for efficient electroreduction of CO2 to formic acid. Scientific Reports, 2017, 7, 13711.	3.3	29
40	Exposure profile of volatile organic compounds receptor associated with paints consumption. Science of the Total Environment, 2017, 603-604, 57-65.	8.0	11
41	Oxidative desulphurization of model fuel by in situ produced hydrogen peroxide on palladium/active carbon. Canadian Journal of Chemical Engineering, 2017, 95, 136-141.	1.7	4
42	Highly selective conversion of glucose into furfural over modified zeolites. Chemical Engineering Journal, 2017, 307, 868-876.	12.7	102
43	In-situ electrochemical flue gas desulfurization via carbon black-based gas diffusion electrodes: Performance, kinetics and mechanism. Chemical Engineering Journal, 2017, 307, 553-561.	12.7	51
44	Efficient catalytic system for the direct transformation of lignocellulosic biomass to furfural and 5-hydroxymethylfurfural. Bioresource Technology, 2017, 224, 656-661.	9.6	116
45	Fabrication of Electrochemically Reduced Graphene Oxide Modified Gas Diffusion Electrode for In-situ Electrochemical Advanced Oxidation Process under Mild Conditions. Electrochimica Acta, 2016, 222, 1501-1509.	5.2	43
46	Enhanced performance of gas diffusion electrode for electrochemical reduction of carbon dioxide to formate by adding polytetrafluoroethylene into catalyst layer. Journal of Power Sources, 2015, 279, 1-5.	7.8	88
47	Sol-gel preparation of mesoporous cerium-doped FeTi nanocatalysts and its SCR activity of NOx with NH3 at low temperature. Journal of Sol-Gel Science and Technology, 2015, 73, 443-451.	2.4	11
48	Energy-saving removal of methyl orange in high salinity wastewater by electrochemical oxidation via a novel Ti/SnO2-Sb anodeâ€"Air diffusion cathode system. Catalysis Today, 2015, 258, 156-161.	4.4	33
49	NH3-SCR performance improvement of mesoporous Sn modified Cr-MnOx catalysts at low temperatures. Catalysis Today, 2015, 258, 103-111.	4.4	51
50	Enhanced electrochemical reduction of carbon dioxide to formic acid using a two-layer gas diffusion electrode in a microbial electrolysis cell. RSC Advances, 2015, 5, 10346-10351.	3.6	44
51	Low-temperature selective catalytic reduction of NO with NH3 over ordered mesoporous MnxCo3â^'xO4 catalyst. Catalysis Communications, 2015, 62, 107-111.	3.3	57
52	Highly efficient removal of NO with ordered mesoporous manganese oxide at low temperature. RSC Advances, 2015, 5, 29353-29361.	3.6	62
53	Facile preparation of MnO₂ doped Fe₂O₃ hollow nanofibers for low temperature SCR of NO with NH₃. Journal of Materials Chemistry A, 2014, 2, 20486-20493.	10.3	118
54	Enhanced infrared radiation properties of CoFe2O4 by single Ce3+-doping with energy-efficient preparation. Ceramics International, 2014, 40, 5905-5911.	4.8	73

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55	Enhanced infrared radiation properties of CoFe2O4 by doping with Y3+ via solâ€“gel auto-combustion. Ceramics International, 2014, 40, 12883-12889.	4.8	32
56	Production of furfural from xylose, xylan and corncob in gamma-valerolactone using FeCl3Â·6H2O as catalyst. Bioresource Technology, 2014, 151, 355-360.	9.6	159
57	Fabrication of a novel tin gas diffusion electrode for electrochemical reduction of carbon dioxide to formic acid. RSC Advances, 2014, 4, 59970-59976.	3.6	65
58	Development of rolling tin gas diffusion electrode for carbon dioxide electrochemical reduction to produce formate in aqueous electrolyte. Journal of Power Sources, 2014, 271, 278-284.	7.8	115
59	CANON process for nitrogen removal from effluents of municipal sewage treatment plants. Transactions of Tianjin University, 2013, 19, 255-259.	6.4	3
60	Conversion of xylan, d-xylose and lignocellulosic biomass into furfural using AlCl3 as catalyst in ionic liquid. Bioresource Technology, 2013, 130, 110-116.	9.6	158
61	Enhanced anode performance of microbial fuel cells by adding nanosemiconductor goethite. Journal of Power Sources, 2013, 223, 94-99.	7.8	73
62	Acidic and alkaline pretreatments of activated carbon and their effects on the performance of air-cathodes in microbial fuel cells. Bioresource Technology, 2013, 144, 632-636.	9.6	91
63	Time behavior and capacitance analysis of nano-Fe3O4 added microbial fuel cells. Bioresource Technology, 2013, 144, 689-692.	9.6	56
64	Lack of anodic capacitance causes power overshoot in microbial fuel cells. Bioresource Technology, 2013, 138, 353-358.	9.6	83
65	Solid acids as catalysts for the conversion of d-xylose, xylan and lignocellulosics into furfural in ionic liquid. Bioresource Technology, 2013, 136, 515-521.	9.6	69
66	Enhanced performance of activated carbonâ€“polytetrafluoroethylene air-cathode by avoidance of sintering on catalyst layer in microbial fuelÂcells. Journal of Power Sources, 2013, 232, 132-138.	7.8	87
67	Carbon Dioxide Captured from Flue Gas by Modified Ca-based Sorbents in Fixed-bed Reactor at High Temperature. Chinese Journal of Chemical Engineering, 2013, 21, 199-204.	3.5	18
68	Carbonâ€supported perovskite oxides as oxygen reduction reaction catalyst in single chambered microbial fuel cells. Journal of Chemical Technology and Biotechnology, 2013, 88, 774-778.	3.2	53
69	Removal of PCP-Na from aqueous systems using monodispersed pompon-like magnetic nanoparticles as adsorbents. Water Science and Technology, 2013, 68, 2704-2711.	2.5	0
70	Conversion of Xylan and Xylose into Furfural in Biorenewable Deep Eutectic Solvent with Trivalent Metal Chloride Added. BioResources, 2013, 8, .	1.0	43
71	A novel structure of scalable air-cathode without Nafion and Pt by rolling activated carbon and PTFE as catalyst layer in microbial fuel cells. Water Research, 2012, 46, 5777-5787.	11.3	383
72	Microwave hydrothermal synthesis of Ag2CrO4 photocatalyst for fast degradation of PCP-Na under visible light irradiation. Catalysis Communications, 2012, 26, 63-67.	3.3	59

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73	Simulated-sunlight-activated photocatalysis of Methylene Blue using cerium-doped SiO2/TiO2 nanostructured fibers. Journal of Environmental Sciences, 2012, 24, 1867-1875.	6.1	70
74	Enhanced performance and capacitance behavior of anode by rolling Fe3O4 into activated carbon in microbial fuel cells. Bioresource Technology, 2012, 121, 450-453.	9.6	146
75	Catalysis Kinetics and Porous Analysis of Rolling Activated Carbon-PTFE Air-Cathode in Microbial Fuel Cells. Environmental Science & Technology, 2012, 46, 13009-13015.	10.0	204
76	Facile fabrication of cerium niobate nano-crystalline fibers by electrospinning technology. Journal of Sol-Gel Science and Technology, 2011, 58, 394-399.	2.4	8
77	Fast degradation of methylene blue with electrospun hierarchical Î±-Fe2O3 nanostructured fibers. Journal of Sol-Gel Science and Technology, 2011, 58, 716-723.	2.4	32
78	Catalytic hydrolysis of lignocellulosic biomass into 5-hydroxymethylfurfural in ionic liquid. Bioresource Technology, 2011, 102, 4179-4183.	9.6	158
79	The effects of temperature and catalysts on the pyrolysis of industrial wastes (herb residue). Bioresource Technology, 2010, 101, 3236-3241.	9.6	143
80	A Mini Review: Electrospun Hierarchical Nanofibers. Journal of Dispersion Science and Technology, 2010, 31, 760-769.	2.4	10
81	Co-Electrospun BaTiO3 Hollow Fibers Combined with Sol-Gel Method. Journal of Dispersion Science and Technology, 2008, 29, 1345-1348.	2.4	11
82	LiCoO2Hollow Nanofibers by Coâ€Electrospinning Solâ€Gel Precursor. Journal of Dispersion Science and Technology, 2008, 29, 702-705.	2.4	17