

# Hongbing Yu

## List of Publications by Year in descending order

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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	A novel structure of scalable air-cathode without Nafion and Pt by rolling activated carbon and PTFE as catalyst layer in microbial fuel cells. <i>Water Research</i> , 2012, 46, 5777-5787.	11.3	383
2	Catalysis Kinetics and Porous Analysis of Rolling Activated Carbon-PTFE Air-Cathode in Microbial Fuel Cells. <i>Environmental Science &amp; Technology</i> , 2012, 46, 13009-13015.	10.0	204
3	Production of furfural from xylose, xylan and corncob in gamma-valerolactone using FeCl <sub>3</sub> ·6H <sub>2</sub> O as catalyst. <i>Bioresource Technology</i> , 2014, 151, 355-360.	9.6	159
4	Catalytic hydrolysis of lignocellulosic biomass into 5-hydroxymethylfurfural in ionic liquid. <i>Bioresource Technology</i> , 2011, 102, 4179-4183.	9.6	158
5	Conversion of xylan, d-xylose and lignocellulosic biomass into furfural using AlCl <sub>3</sub> as catalyst in ionic liquid. <i>Bioresource Technology</i> , 2013, 130, 110-116.	9.6	158
6	Enhanced performance and capacitance behavior of anode by rolling Fe <sub>3</sub> O <sub>4</sub> into activated carbon in microbial fuel cells. <i>Bioresource Technology</i> , 2012, 121, 450-453.	9.6	146
7	The effects of temperature and catalysts on the pyrolysis of industrial wastes (herb residue). <i>Bioresource Technology</i> , 2010, 101, 3236-3241.	9.6	143
8	Application of co-pyrolysis biochar for the adsorption and immobilization of heavy metals in contaminated environmental substrates. <i>Journal of Hazardous Materials</i> , 2021, 420, 126655.	12.4	124
9	Facile preparation of MnO <sub>2</sub> doped Fe <sub>2</sub> O <sub>3</sub> hollow nanofibers for low temperature SCR of NO with NH <sub>3</sub> . <i>Journal of Materials Chemistry A</i> , 2014, 2, 20486-20493.	10.3	118
10	Efficient catalytic system for the direct transformation of lignocellulosic biomass to furfural and 5-hydroxymethylfurfural. <i>Bioresource Technology</i> , 2017, 224, 656-661.	9.6	116
11	Development of rolling tin gas diffusion electrode for carbon dioxide electrochemical reduction to produce formate in aqueous electrolyte. <i>Journal of Power Sources</i> , 2014, 271, 278-284.	7.8	115
12	Highly selective conversion of glucose into furfural over modified zeolites. <i>Chemical Engineering Journal</i> , 2017, 307, 868-876.	12.7	102
13	Acidic and alkaline pretreatments of activated carbon and their effects on the performance of air-cathodes in microbial fuel cells. <i>Bioresource Technology</i> , 2013, 144, 632-636.	9.6	91
14	Enhanced performance of gas diffusion electrode for electrochemical reduction of carbon dioxide to formate by adding polytetrafluoroethylene into catalyst layer. <i>Journal of Power Sources</i> , 2015, 279, 1-5.	7.8	88
15	Enhanced performance of activated carbon/polytetrafluoroethylene air-cathode by avoidance of sintering on catalyst layer in microbial fuel cells. <i>Journal of Power Sources</i> , 2013, 232, 132-138.	7.8	87
16	Lack of anodic capacitance causes power overshoot in microbial fuel cells. <i>Bioresource Technology</i> , 2013, 138, 353-358.	9.6	83
17	Enhanced anode performance of microbial fuel cells by adding nanosemiconductor goethite. <i>Journal of Power Sources</i> , 2013, 223, 94-99.	7.8	73
18	Enhanced infrared radiation properties of CoFe <sub>2</sub> O <sub>4</sub> by single Ce <sup>3+</sup> -doping with energy-efficient preparation. <i>Ceramics International</i> , 2014, 40, 5905-5911.	4.8	73

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19	Simulated-sunlight-activated photocatalysis of Methylene Blue using cerium-doped SiO <sub>2</sub> /TiO <sub>2</sub> nanostructured fibers. <i>Journal of Environmental Sciences</i> , 2012, 24, 1867-1875.	6.1	70
20	Solid acids as catalysts for the conversion of d-xylose, xylan and lignocellulosics into furfural in ionic liquid. <i>Bioresource Technology</i> , 2013, 136, 515-521.	9.6	69
21	Fabrication of a novel tin gas diffusion electrode for electrochemical reduction of carbon dioxide to formic acid. <i>RSC Advances</i> , 2014, 4, 59970-59976.	3.6	65
22	Highly efficient removal of NO with ordered mesoporous manganese oxide at low temperature. <i>RSC Advances</i> , 2015, 5, 29353-29361.	3.6	62
23	Microwave hydrothermal synthesis of Ag <sub>2</sub> CrO <sub>4</sub> photocatalyst for fast degradation of PCP-Na under visible light irradiation. <i>Catalysis Communications</i> , 2012, 26, 63-67.	3.3	59
24	Tungsten oxide quantum dots deposited onto ultrathin CdIn <sub>2</sub> S <sub>4</sub> nanosheets for efficient S-scheme photocatalytic CO <sub>2</sub> reduction via cascade charge transfer. <i>Chemical Engineering Journal</i> , 2022, 428, 131218.	12.7	58
25	Low-temperature selective catalytic reduction of NO with NH <sub>3</sub> over ordered mesoporous Mn <sub>x</sub> Co <sub>3-x</sub> O <sub>4</sub> catalyst. <i>Catalysis Communications</i> , 2015, 62, 107-111.	3.3	57
26	Time behavior and capacitance analysis of nano-Fe <sub>3</sub> O <sub>4</sub> added microbial fuel cells. <i>Bioresource Technology</i> , 2013, 144, 689-692.	9.6	56
27	Carbon-supported perovskite oxides as oxygen reduction reaction catalyst in single chambered microbial fuel cells. <i>Journal of Chemical Technology and Biotechnology</i> , 2013, 88, 774-778.	3.2	53
28	Internal electric field engineering step-scheme-based heterojunction using lead-free Cs <sub>3</sub> Bi <sub>2</sub> Br <sub>9</sub> perovskite-modified In <sub>4</sub> SnS <sub>8</sub> for selective photocatalytic CO <sub>2</sub> reduction to CO. <i>Applied Catalysis B: Environmental</i> , 2022, 313, 121426.	20.2	53
29	NH <sub>3</sub> -SCR performance improvement of mesoporous Sn modified Cr-MnOx catalysts at low temperatures. <i>Catalysis Today</i> , 2015, 258, 103-111.	4.4	51
30	In-situ electrochemical flue gas desulfurization via carbon black-based gas diffusion electrodes: Performance, kinetics and mechanism. <i>Chemical Engineering Journal</i> , 2017, 307, 553-561.	12.7	51
31	Enhanced electrochemical reduction of carbon dioxide to formic acid using a two-layer gas diffusion electrode in a microbial electrolysis cell. <i>RSC Advances</i> , 2015, 5, 10346-10351.	3.6	44
32	Conversion of Xylan and Xylose into Furfural in Biorenewable Deep Eutectic Solvent with Trivalent Metal Chloride Added. <i>BioResources</i> , 2013, 8, .	1.0	43
33	Fabrication of Electrochemically Reduced Graphene Oxide Modified Gas Diffusion Electrode for In-situ Electrochemical Advanced Oxidation Process under Mild Conditions. <i>Electrochimica Acta</i> , 2016, 222, 1501-1509.	5.2	43
34	Global characteristics and trends of research on ceramic membranes from 1998 to 2016: Based on bibliometric analysis combined with information visualization analysis. <i>Ceramics International</i> , 2018, 44, 6926-6934.	4.8	39
35	Degradation of Norfloxacin in saline water by synergistic effect of anode and cathode in a novel photo-electrochemical system. <i>Journal of Cleaner Production</i> , 2020, 242, 118548.	9.3	39
36	Synthesis of 1D Bi <sub>1-2O</sub> 17Cl <sub>x</sub> Br <sub>2-x</sub> nanotube solid solutions with rich oxygen vacancies for highly efficient removal of organic pollutants under visible light. <i>Applied Catalysis B: Environmental</i> , 2020, 269, 118774.	20.2	39

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37	Promoted photocatalytic degradation and detoxication performance for norfloxacin on Z-scheme phosphate-doped BiVO <sub>4</sub> /graphene quantum dots/P-doped g-C <sub>3</sub> N <sub>4</sub> . Separation and Purification Technology, 2021, 274, 118692.	7.9	38
38	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
39	Direct synthesis of bismuth nanosheets on a gas diffusion layer as a high-performance cathode for a coupled electrochemical system capable of electroreduction of CO <sub>2</sub> to formate with simultaneous degradation of organic pollutants. Electrochimica Acta, 2019, 319, 138-147.	5.2	35
40	Energy-saving removal of methyl orange in high salinity wastewater by electrochemical oxidation via a novel Ti/SnO <sub>2</sub> -Sb anode-Air diffusion cathode system. Catalysis Today, 2015, 258, 156-161.	4.4	33
41	Fast degradation of methylene blue with electrospun hierarchical Fe <sub>2</sub> O <sub>3</sub> nanostructured fibers. Journal of Sol-Gel Science and Technology, 2011, 58, 716-723.	2.4	32
42	Enhanced infrared radiation properties of CoFe <sub>2</sub> O <sub>4</sub> by doping with Y <sup>3+</sup> via sol-gel auto-combustion. Ceramics International, 2014, 40, 12883-12889.	4.8	32
43	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
44	Coral-like WO <sub>3</sub> /BiVO <sub>4</sub> photoanode constructed via morphology and facet engineering for antibiotic wastewater detoxification and hydrogen recovery. Chemical Engineering Journal, 2022, 428, 131817.	12.7	31
45	Norfloxacin degradation by a green carbon black-Ti/SnO <sub>2</sub> -Sb electrochemical system in saline water. Catalysis Today, 2019, 327, 308-314.	4.4	30
46	Electrodeposition of tin on Nafion-bonded carbon black as an active catalyst layer for efficient electroreduction of CO <sub>2</sub> to formic acid. Scientific Reports, 2017, 7, 13711.	3.3	29
47	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
48	Experimental and Kinetic Study on the Production of Furfural and HMF from Glucose. Catalysts, 2021, 11, 11.	3.5	29
49	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
50	Recent progress in furfural production from hemicellulose and its derivatives: Conversion mechanism, catalytic system, solvent selection. Molecular Catalysis, 2021, 515, 111899.	2.0	23
51	Enhanced electroreduction of CO <sub>2</sub> and simultaneous degradation of organic pollutants using a Sn-based carbon nanotubes/carbon black hybrid gas diffusion cathode. Journal of CO <sub>2</sub> Utilization, 2018, 26, 425-433.	6.8	22
52	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
53	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
54	LiCoO <sub>2</sub> Hollow Nanofibers by Co-Electrospinning Sol-Gel Precursor. Journal of Dispersion Science and Technology, 2008, 29, 702-705.	2.4	17

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55	Electro-UV/H <sub>2</sub> O <sub>2</sub> system with RGO-modified air diffusion cathode for simulative antibiotic-manufacture effluent treatment. <i>Chemical Engineering Journal</i> , 2020, 390, 124650.	12.7	17
56	The exploration of Ti/SnO <sub>2</sub> -Sb anode/air diffusion cathode/UV dual photoelectric catalytic coupling system for the biological harmless treatment of real antibiotic industrial wastewater. <i>Chemical Engineering Journal</i> , 2021, 412, 128581.	12.7	17
57	A novel strategy to achieve simultaneous efficient formate production and p-nitrophenol removal in a co-electrolysis system of CO <sub>2</sub> and p-nitrophenol. <i>Journal of CO<sub>2</sub> Utilization</i> , 2021, 47, 101497.	6.8	16
58	Sn nanoparticles deposited onto a gas diffusion layer via impregnation-electroreduction for enhanced CO <sub>2</sub> electroreduction to formate. <i>Electrochimica Acta</i> , 2021, 369, 137662.	5.2	15
59	Degradation of desphenyl chloridazon in a novel synergetic electrocatalytic system with Ni@Sb/SnO <sub>2</sub> /Ti anode and PEDOT/PSS-CNTs modified air diffusion cathode. <i>Journal of Cleaner Production</i> , 2021, 300, 126961.	9.3	15
60	PEDOT: PSS-MWCNTs modified carbon black-based gas diffusion electrodes for improved performance of in-situ electrocatalytic flue gas desulfurization. <i>Journal of Cleaner Production</i> , 2018, 200, 1087-1099.	9.3	14
61	La <sub>0.75</sub> Sr <sub>0.25</sub> Cr <sub>0.5</sub> Mn <sub>0.5</sub> O <sub>3-<math>\delta</math></sub> -Ce <sub>0.8</sub> Sm <sub>0.2</sub> O <sub>1.9</sub> as composite electrodes in symmetric solid electrolyte cells for electrochemical removal of nitric oxide. <i>Applied Catalysis B: Environmental</i> , 2020, 264, 118533.	20.2	13
62	Improved Norfloxacin degradation by urea precipitation Ti/SnO <sub>2</sub> @Sb anode under photo-electro catalysis and kinetics investigation by BP-neural-network-physical modeling. <i>Journal of Cleaner Production</i> , 2021, 280, 124412.	9.3	12
63	Synergy of developed micropores and electronic structure defects in carbon-doped boron nitride for CO <sub>2</sub> capture. <i>Science of the Total Environment</i> , 2022, 811, 151384.	8.0	12
64	Co-Electrospun BaTiO <sub>3</sub> Hollow Fibers Combined with Sol-Gel Method. <i>Journal of Dispersion Science and Technology</i> , 2008, 29, 1345-1348.	2.4	11
65	Sol-gel preparation of mesoporous cerium-doped FeTi nanocatalysts and its SCR activity of NO <sub>x</sub> with NH <sub>3</sub> at low temperature. <i>Journal of Sol-Gel Science and Technology</i> , 2015, 73, 443-451.	2.4	11
66	In-situ electrochemical NO <sub>x</sub> removal process for the lean-burn engine exhaust based on carbon black gas diffusion electrode. <i>Journal of Cleaner Production</i> , 2017, 151, 465-474.	9.3	11
67	Exposure profile of volatile organic compounds receptor associated with paints consumption. <i>Science of the Total Environment</i> , 2017, 603-604, 57-65.	8.0	11
68	A Mini Review: Electrospun Hierarchical Nanofibers. <i>Journal of Dispersion Science and Technology</i> , 2010, 31, 760-769.	2.4	10
69	Facile fabrication of cerium niobate nano-crystalline fibers by electrospinning technology. <i>Journal of Sol-Gel Science and Technology</i> , 2011, 58, 394-399.	2.4	8
70	Electrochemical reduction of NO by solid electrolyte cells with La <sub>0.8</sub> Sr <sub>0.2</sub> MnO <sub>3</sub> -Ce <sub>0.8</sub> Sm <sub>0.2</sub> O <sub>1.9</sub> composite cathodes. <i>Chemical Engineering Journal</i> , 2019, 378, 122188.	12.7	8
71	Effect of sintering temperature on NO decomposition by solid electrolyte cells with LSM-SDC composite cathodes. <i>Journal of Alloys and Compounds</i> , 2019, 777, 915-925.	5.5	8
72	Electrochemical removal of NO <sub>x</sub> by La <sub>0.8</sub> Sr <sub>0.2</sub> Mn <sub>1-x</sub> Ni <sub>x</sub> O <sub>3</sub> electrodes in solid electrolyte cells: Role of Ni substitution. <i>Journal of Hazardous Materials</i> , 2021, 420, 126640.	12.4	8

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73	Performance and Mechanism of In Situ Electro-Catalytic Flue Gas Desulfurization via Carbon Black-Based Gas Diffusion Electrodes Doped with MWCNTs. <i>Electrocatalysis</i> , 2017, 8, 103-114.	3.0	5
74	Graphene-doped carbon black gas diffusion electrode for nonmetallic electrochemical advanced oxidation process under mild conditions. <i>Environmental Technology (United Kingdom)</i> , 2018, 39, 2959-2966.	2.2	5
75	In-situ electrochemical DeNO <sub>x</sub> under mild conditions depending on perovskite-modified gas diffusion electrode. <i>Chemical Engineering Journal</i> , 2019, 358, 666-678.	12.7	5
76	Oxidative desulphurization of model fuel by in situ produced hydrogen peroxide on palladium/active carbon. <i>Canadian Journal of Chemical Engineering</i> , 2017, 95, 136-141.	1.7	4
77	CANON process for nitrogen removal from effluents of municipal sewage treatment plants. <i>Transactions of Tianjin University</i> , 2013, 19, 255-259.	6.4	3
78	Study of SARS-CoV-2 transmission in urban environment by questionnaire and modeling for sustainable risk control. <i>Journal of Hazardous Materials</i> , 2021, 420, 126621.	12.4	3
79	Investigation and improvement of a novel double-working-electrode electrochemical system for organic matter treatment from high-salinity wastewater. <i>Environmental Technology (United Kingdom)</i> , 2021, 42, 1071-1081.	0.784314	2
80	Construction of cleaner production management system in China: mode innovation of cleaner production. <i>Environmental Science and Pollution Research</i> , 2022, 29, 17626-17644.	5.3	2
81	Removal of PCP-Na from aqueous systems using monodispersed pompon-like magnetic nanoparticles as adsorbents. <i>Water Science and Technology</i> , 2013, 68, 2704-2711.	2.5	0
82	New insights of anaerobic performance, antibiotic resistance gene removal, microbial community structure: applying graphite-based materials in wet anaerobic digestion. <i>Environmental Technology (United Kingdom)</i> , 2022, , 1-14.	2.2	0