

# Han-Qing Yu

## List of Publications by Citations

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105  
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47,607  
ext. citations

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L-index

#	Paper	IF	Citations
655	Extracellular polymeric substances (EPS) of microbial aggregates in biological wastewater treatment systems: a review. <i>Biotechnology Advances</i> , <b>2010</b> , 28, 882-94	17.8	1739
654	Development of Biochar-Based Functional Materials: Toward a Sustainable Platform Carbon Material. <i>Chemical Reviews</i> , <b>2015</b> , 115, 12251-85	68.1	792
653	Extracellular electron transfer mechanisms between microorganisms and minerals. <i>Nature Reviews Microbiology</i> , <b>2016</b> , 14, 651-62	22.2	732
652	Towards sustainable wastewater treatment by using microbial fuel cells-centered technologies. <i>Energy and Environmental Science</i> , <b>2014</b> , 7, 911-924	35.4	641
651	Hierarchical assembly of graphene-bridged Ag <sub>3</sub> PO <sub>4</sub> /Ag/BiVO <sub>4</sub> (040) Z-scheme photocatalyst: An efficient, sustainable and heterogeneous catalyst with enhanced visible-light photoactivity towards tetracycline degradation under visible light irradiation. <i>Applied Catalysis B: Environmental</i> , <b>2017</b> , 200, 888-900	21.8	597
650	Characterization of extracellular polymeric substances of aerobic and anaerobic sludge using three-dimensional excitation and emission matrix fluorescence spectroscopy. <i>Water Research</i> , <b>2006</b> , 40, 1233-9	12.5	523
649	Elemental selenium at nano size possesses lower toxicity without compromising the fundamental effect on selenoenzymes: comparison with selenomethionine in mice. <i>Free Radical Biology and Medicine</i> , <b>2007</b> , 42, 1524-33	7.8	444
648	Modification of bio-char derived from fast pyrolysis of biomass and its application in removal of tetracycline from aqueous solution. <i>Bioresource Technology</i> , <b>2012</b> , 121, 235-40	11	402
647	Degradation of Bisphenol A by Peroxymonosulfate Catalytically Activated with MnFeO Nanospheres: Synergism between Mn and Fe. <i>Environmental Science &amp; Technology</i> , <b>2017</b> , 51, 12611-12618	19.3	384
646	Hydrogen production from rice winery wastewater in an upflow anaerobic reactor by using mixed anaerobic cultures. <i>International Journal of Hydrogen Energy</i> , <b>2002</b> , 27, 1359-1365	6.7	352
645	Simultaneously efficient adsorption and photocatalytic degradation of tetracycline by Fe-based MOFs. <i>Journal of Colloid and Interface Science</i> , <b>2018</b> , 519, 273-284	9.3	341
644	Thermochemical conversion of lignin to functional materials: a review and future directions. <i>Green Chemistry</i> , <b>2015</b> , 17, 4888-4907	10	339
643	Enhanced Photocatalytic Degradation of Tetracycline by AgI/BiVO Heterojunction under Visible-Light Irradiation: Mineralization Efficiency and Mechanism. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2016</b> , 8, 32887-32900	9.5	325
642	Contribution of extracellular polymeric substances (EPS) to the sludge aggregation. <i>Environmental Science &amp; Technology</i> , <b>2010</b> , 44, 4355-60	10.3	297
641	Emerging applications of biochar-based materials for energy storage and conversion. <i>Energy and Environmental Science</i> , <b>2019</b> , 12, 1751-1779	35.4	265
640	FTIR and synchronous fluorescence heterospectral two-dimensional correlation analyses on the binding characteristics of copper onto dissolved organic matter. <i>Environmental Science &amp; Technology</i> , <b>2015</b> , 49, 2052-8	10.3	264
639	Fates of Chemical Elements in Biomass during Its Pyrolysis. <i>Chemical Reviews</i> , <b>2017</b> , 117, 6367-6398	68.1	255

638	Novel ternary heterojunction photocatalyst of Ag nanoparticles and g-C3N4 nanosheets co-modified BiVO4 for wider spectrum visible-light photocatalytic degradation of refractory pollutant. <i>Applied Catalysis B: Environmental</i> , <b>2017</b> , 205, 133-147	21.8	254
637	Thermodynamic analysis on the binding of heavy metals onto extracellular polymeric substances (EPS) of activated sludge. <i>Water Research</i> , <b>2013</b> , 47, 607-14	12.5	230
636	Formation and characterization of aerobic granules in a sequencing batch reactor treating soybean-processing wastewater. <i>Environmental Science &amp; Technology</i> , <b>2005</b> , 39, 2818-27	10.3	221
635	Granulation of activated sludge in a pilot-scale sequencing batch reactor for the treatment of low-strength municipal wastewater. <i>Water Research</i> , <b>2009</b> , 43, 751-61	12.5	216
634	Fouling of proton exchange membrane (PEM) deteriorates the performance of microbial fuel cell. <i>Water Research</i> , <b>2012</b> , 46, 1817-24	12.5	215
633	Defective titanium dioxide single crystals exposed by high-energy {001} facets for efficient oxygen reduction. <i>Nature Communications</i> , <b>2015</b> , 6, 8696	17.4	203
632	Electrochemical Oxidation of 5-Hydroxymethylfurfural with NiFe Layered Double Hydroxide (LDH) Nanosheet Catalysts. <i>ACS Catalysis</i> , <b>2018</b> , 8, 5533-5541	13.1	202
631	Chemistry: Reuse water pollutants. <i>Nature</i> , <b>2015</b> , 528, 29-31	50.4	196
630	Effectiveness and mechanisms of phosphate adsorption on iron-modified biochars derived from waste activated sludge. <i>Bioresource Technology</i> , <b>2018</b> , 247, 537-544	11	194
629	Enhanced photocatalytic degradation of bisphenol A by Co-doped BiOCl nanosheets under visible light irradiation. <i>Applied Catalysis B: Environmental</i> , <b>2018</b> , 221, 320-328	21.8	193
628	Insight into the roles of microbial extracellular polymer substances in metal biosorption. <i>Bioresource Technology</i> , <b>2014</b> , 160, 15-23	11	193
627	Synthesis, characterization and application of a novel starch-based flocculant with high flocculation and dewatering properties. <i>Water Research</i> , <b>2013</b> , 47, 2643-8	12.5	191
626	Cathodic catalysts in bioelectrochemical systems for energy recovery from wastewater. <i>Chemical Society Reviews</i> , <b>2014</b> , 43, 7718-45	58.5	185
625	Optimization of the coagulation-flocculation process for pulp mill wastewater treatment using a combination of uniform design and response surface methodology. <i>Water Research</i> , <b>2011</b> , 45, 5633-40	12.5	184
624	Enhanced efficiency of biological excess sludge hydrolysis under anaerobic digestion by additional enzymes. <i>Bioresource Technology</i> , <b>2010</b> , 101, 2924-30	11	184
623	Recent advances in photo-activated sulfate radical-advanced oxidation process (SR-AOP) for refractory organic pollutants removal in water. <i>Chemical Engineering Journal</i> , <b>2019</b> , 378, 122149	14.7	183
622	Roles of extracellular polymeric substances (EPS) in the migration and removal of sulfamethazine in activated sludge system. <i>Water Research</i> , <b>2013</b> , 47, 5298-306	12.5	183
621	Identification of key constituents and structure of the extracellular polymeric substances excreted by <i>Bacillus megaterium</i> TF10 for their flocculation capacity. <i>Environmental Science &amp; Technology</i> , <b>2011</b> , 45, 1152-7	10.3	181

620	A novel adsorbent TEMPO-mediated oxidized cellulose nanofibrils modified with PEI: Preparation, characterization, and application for Cu(II) removal. <i>Journal of Hazardous Materials</i> , <b>2016</b> , 316, 11-8	12.8	177
619	pH dependence of structure and surface properties of microbial EPS. <i>Environmental Science &amp; Technology</i> , <b>2012</b> , 46, 737-44	10.3	171
618	Synthesis of a highly efficient BiOCl single-crystal nanodisk photocatalyst with exposing {001} facets. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2014</b> , 6, 7766-72	9.5	168
617	Removal of antibiotic resistance genes from wastewater treatment plant effluent by coagulation. <i>Water Research</i> , <b>2017</b> , 111, 204-212	12.5	167
616	An MEC-MFC-coupled system for biohydrogen production from acetate. <i>Environmental Science &amp; Technology</i> , <b>2008</b> , 42, 8095-100	10.3	167
615	Response of anaerobic granular sludge to single-wall carbon nanotube exposure. <i>Water Research</i> , <b>2015</b> , 70, 1-8	12.5	166
614	Physicochemical characteristics of microbial granules. <i>Biotechnology Advances</i> , <b>2009</b> , 27, 1061-1070	17.8	166
613	Extraction of extracellular polymeric substances from the photosynthetic bacterium <i>Rhodospseudomonas acidophila</i> . <i>Applied Microbiology and Biotechnology</i> , <b>2005</b> , 67, 125-30	5.7	165
612	Visible-Light-Promoted Asymmetric Cross-Dehydrogenative Coupling of Tertiary Amines to Ketones by Synergistic Multiple Catalysis. <i>Angewandte Chemie - International Edition</i> , <b>2017</b> , 56, 3694-3698	16.4	163
611	Sludge biochar-based catalysts for improved pollutant degradation by activating peroxymonosulfate. <i>Journal of Materials Chemistry A</i> , <b>2018</b> , 6, 8978-8985	13	161
610	Soluble microbial products and their implications in mixed culture biotechnology. <i>Trends in Biotechnology</i> , <b>2011</b> , 29, 454-63	15.1	161
609	Advanced nutrient removal from surface water by a consortium of attached microalgae and bacteria: A review. <i>Bioresource Technology</i> , <b>2017</b> , 241, 1127-1137	11	158
608	Acidogenic fermentation of proteinaceous sewage sludge: Effect of pH. <i>Water Research</i> , <b>2012</b> , 46, 799-807	10.5	156
607	Production of extracellular polymeric substances from <i>Rhodospseudomonas acidophila</i> in the presence of toxic substances. <i>Applied Microbiology and Biotechnology</i> , <b>2005</b> , 69, 216-22	5.7	155
606	Investigation on the evolution of N-containing organic compounds during pyrolysis of sewage sludge. <i>Environmental Science &amp; Technology</i> , <b>2014</b> , 48, 10888-96	10.3	154
605	Bioelectrochemical Chromium(VI) Removal in Plant-Microbial Fuel Cells. <i>Environmental Science &amp; Technology</i> , <b>2016</b> , 50, 3882-9	10.3	153
604	Mesoporous carbon stabilized MgO nanoparticles synthesized by pyrolysis of MgCl <sub>2</sub> preloaded waste biomass for highly efficient CO <sub>2</sub> capture. <i>Environmental Science &amp; Technology</i> , <b>2013</b> , 47, 9397-403	10.3	153
603	Free nitrous acid serving as a pretreatment method for alkaline fermentation to enhance short-chain fatty acid production from waste activated sludge. <i>Water Research</i> , <b>2015</b> , 78, 111-20	12.5	152

602	Endoplasmic Reticulum Stress Causes Liver Cancer Cells to Release Exosomal miR-23a-3p and Up-regulate Programmed Death Ligand 1 Expression in Macrophages. <i>Hepatology</i> , <b>2019</b> , 70, 241-258	11.2	150
601	A Fenton-like process for the enhanced activated sludge dewatering. <i>Chemical Engineering Journal</i> , <b>2015</b> , 272, 128-134	14.7	150
600	Harvest and utilization of chemical energy in wastes by microbial fuel cells. <i>Chemical Society Reviews</i> , <b>2016</b> , 45, 2847-70	58.5	148
599	Photo-reduction of bromate in drinking water by metallic Ag and reduced graphene oxide (RGO) jointly modified BiVO <sub>4</sub> under visible light irradiation. <i>Water Research</i> , <b>2016</b> , 101, 555-563	12.5	147
598	Enhanced arsenic removal from water by hierarchically porous CeO <sub>2</sub> /ZrO <sub>2</sub> nanospheres: role of surface- and structure-dependent properties. <i>Journal of Hazardous Materials</i> , <b>2013</b> , 260, 498-507	12.8	146
597	Development of a novel bioelectrochemical membrane reactor for wastewater treatment. <i>Environmental Science &amp; Technology</i> , <b>2011</b> , 45, 9256-61	10.3	146
596	Novel BiVO <sub>4</sub> Photocatalyst for the Degradation of Bisphenol A under Visible-Light Irradiation. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2016</b> , 8, 5320-6	9.5	140
595	Characterization of extracellular polymeric substances produced by mixed microorganisms in activated sludge with gel-permeating chromatography, excitation-emission matrix fluorescence spectroscopy measurement and kinetic modeling. <i>Water Research</i> , <b>2009</b> , 43, 1350-8	12.5	140
594	Extracellular polymeric substances of biofilms: Suffering from an identity crisis. <i>Water Research</i> , <b>2019</b> , 151, 1-7	12.5	138
593	High-yield harvest of nanofibers/mesoporous carbon composite by pyrolysis of waste biomass and its application for high durability electrochemical energy storage. <i>Environmental Science &amp; Technology</i> , <b>2014</b> , 48, 13951-9	10.3	137
592	Identification and quantification of anammox bacteria in eight nitrogen removal reactors. <i>Water Research</i> , <b>2010</b> , 44, 5014-20	12.5	135
591	Characterization of adsorption properties of extracellular polymeric substances (EPS) extracted from sludge. <i>Colloids and Surfaces B: Biointerfaces</i> , <b>2008</b> , 62, 83-90	6	133
590	A microbial fuel cell-membrane bioreactor integrated system for cost-effective wastewater treatment. <i>Applied Energy</i> , <b>2012</b> , 98, 230-235	10.7	132
589	Kinetic modeling of batch hydrogen production process by mixed anaerobic cultures. <i>Bioresour. Technol.</i> , <b>2006</b> , 97, 1302-7	11	132
588	Phosphorus removal in an enhanced biological phosphorus removal process: roles of extracellular polymeric substances. <i>Environmental Science &amp; Technology</i> , <b>2013</b> , 47, 11482-9	10.3	129
587	Synthesis and characterization of a novel cationic chitosan-based flocculant with a high water-solubility for pulp mill wastewater treatment. <i>Water Research</i> , <b>2009</b> , 43, 5267-75	12.5	129
586	Graphene oxide and carbon nitride nanosheets co-modified silver chromate nanoparticles with enhanced visible-light photoactivity and anti-photocorrosion properties towards multiple refractory pollutants degradation. <i>Applied Catalysis B: Environmental</i> , <b>2017</b> , 209, 493-505	21.8	127
585	Selenite reduction by <i>Shewanella oneidensis</i> MR-1 is mediated by fumarate reductase in periplasm. <i>Scientific Reports</i> , <b>2014</b> , 4, 3735	4.9	127

584	Enhanced dewaterability of waste activated sludge by Fe(II)-activated peroxymonosulfate oxidation. <i>Bioresource Technology</i> , <b>2016</b> , 206, 134-140	11	127
583	Calcium spatial distribution in aerobic granules and its effects on granule structure, strength and bioactivity. <i>Water Research</i> , <b>2008</b> , 42, 3343-52	12.5	127
582	Understanding and mitigating the toxicity of cadmium to the anaerobic fermentation of waste activated sludge. <i>Water Research</i> , <b>2017</b> , 124, 269-279	12.5	126
581	Stimulating sediment bioremediation with benthic microbial fuel cells. <i>Biotechnology Advances</i> , <b>2015</b> , 33, 1-12	17.8	126
580	Nano-structured manganese oxide as a cathodic catalyst for enhanced oxygen reduction in a microbial fuel cell fed with a synthetic wastewater. <i>Water Research</i> , <b>2010</b> , 44, 5298-305	12.5	126
579	Unveiling the mechanisms of how cationic polyacrylamide affects short-chain fatty acids accumulation during long-term anaerobic fermentation of waste activated sludge. <i>Water Research</i> , <b>2019</b> , 155, 142-151	12.5	126
578	Ternary FeNiS <sub>2</sub> ultrathin nanosheets as an electrocatalyst for both oxygen evolution and reduction reactions. <i>Nano Energy</i> , <b>2016</b> , 27, 526-534	17.1	123
577	Two-dimensional correlation spectroscopic analysis on the interaction between humic acids and TiO <sub>2</sub> nanoparticles. <i>Environmental Science &amp; Technology</i> , <b>2014</b> , 48, 11119-26	10.3	123
576	Evaluation of three methods for enriching H <sub>2</sub> -producing cultures from anaerobic sludge. <i>Enzyme and Microbial Technology</i> , <b>2007</b> , 40, 947-953	3.8	123
575	Mechanisms of peroxymonosulfate pretreatment enhancing production of short-chain fatty acids from waste activated sludge. <i>Water Research</i> , <b>2019</b> , 148, 239-249	12.5	119
574	Bi <sub>24</sub> O <sub>31</sub> Br <sub>10</sub> nanosheets with controllable thickness for visible-light-driven catalytic degradation of tetracycline hydrochloride. <i>Applied Catalysis B: Environmental</i> , <b>2017</b> , 205, 615-623	21.8	117
573	Triclocarban enhances short-chain fatty acids production from anaerobic fermentation of waste activated sludge. <i>Water Research</i> , <b>2017</b> , 127, 150-161	12.5	117
572	Free ammonia enhances dark fermentative hydrogen production from waste activated sludge. <i>Water Research</i> , <b>2018</b> , 133, 272-281	12.5	117
571	Biosorption of 2,4-dichlorophenol from aqueous solution by <i>Phanerochaete chrysosporium</i> biomass: isotherms, kinetics and thermodynamics. <i>Journal of Hazardous Materials</i> , <b>2006</b> , 137, 498-508	12.8	117
570	Selectively improving the bio-oil quality by catalytic fast pyrolysis of heavy-metal-polluted biomass: take copper (Cu) as an example. <i>Environmental Science &amp; Technology</i> , <b>2012</b> , 46, 7849-56	10.3	116
569	From wastewater to bioenergy and biochemicals via two-stage bioconversion processes: a future paradigm. <i>Biotechnology Advances</i> , <b>2011</b> , 29, 972-82	17.8	116
568	Microbial and physicochemical characteristics of compact anaerobic ammonium-oxidizing granules in an upflow anaerobic sludge blanket reactor. <i>Applied and Environmental Microbiology</i> , <b>2010</b> , 76, 2652-64	4.8	116
567	Effects of temperature and substrate concentration on biological hydrogen production from starch. <i>International Journal of Hydrogen Energy</i> , <b>2009</b> , 34, 2558-2566	6.7	116

566	A gold-sputtered carbon paper as an anode for improved electricity generation from a microbial fuel cell inoculated with <i>Shewanella oneidensis</i> MR-1. <i>Biosensors and Bioelectronics</i> , <b>2010</b> , 26, 338-43	11.8	116
565	Porous ZnO-Coated CoO Nanorod as a High-Energy-Density Supercapacitor Material. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2018</b> , 10, 23163-23173	9.5	115
564	Microbe-assisted sulfide oxidation in the anode of a microbial fuel cell. <i>Environmental Science &amp; Technology</i> , <b>2009</b> , 43, 3372-7	10.3	115
563	The underlying mechanism of calcium peroxide pretreatment enhancing methane production from anaerobic digestion of waste activated sludge. <i>Water Research</i> , <b>2019</b> , 164, 114934	12.5	114
562	A kinetic approach to anaerobic hydrogen-producing process. <i>Water Research</i> , <b>2007</b> , 41, 1152-60	12.5	114
561	Photocatalytic degradation of atrazine by boron-doped TiO <sub>2</sub> with a tunable rutile/anatase ratio. <i>Applied Catalysis B: Environmental</i> , <b>2016</b> , 195, 69-76	21.8	114
560	Understanding the impact of cationic polyacrylamide on anaerobic digestion of waste activated sludge. <i>Water Research</i> , <b>2018</b> , 130, 281-290	12.5	112
559	Stability of sludge flocs under shear conditions: roles of extracellular polymeric substances (EPS). <i>Biotechnology and Bioengineering</i> , <b>2006</b> , 93, 1095-102	4.9	110
558	Catalytic degradation of ciprofloxacin by a visible-light-assisted peroxymonosulfate activation system: Performance and mechanism. <i>Water Research</i> , <b>2020</b> , 173, 115559	12.5	110
557	Catalytic Asymmetric Electrochemical Oxidative Coupling of Tertiary Amines with Simple Ketones. <i>Organic Letters</i> , <b>2017</b> , 19, 2122-2125	6.2	109
556	Aged refuse enhances anaerobic digestion of waste activated sludge. <i>Water Research</i> , <b>2017</b> , 123, 724-733	12.5	107
555	Removal of Cu(II) in aqueous media by biosorption using water hyacinth roots as a biosorbent material. <i>Journal of Hazardous Materials</i> , <b>2009</b> , 171, 780-5	12.8	107
554	Harvest of Cu NP anchored magnetic carbon materials from Fe/Cu preloaded biomass: their pyrolysis, characterization, and catalytic activity on aqueous reduction of 4-nitrophenol. <i>Green Chemistry</i> , <b>2014</b> , 16, 4198	10	106
553	An efficient and green pretreatment to stimulate short-chain fatty acids production from waste activated sludge anaerobic fermentation using free nitrous acid. <i>Chemosphere</i> , <b>2016</b> , 144, 160-7	8.4	105
552	Fractionating soluble microbial products in the activated sludge process. <i>Water Research</i> , <b>2010</b> , 44, 2292-302	12.5	105
551	Graphene oxide nanoribbons greatly enhance extracellular electron transfer in bio-electrochemical systems. <i>Chemical Communications</i> , <b>2011</b> , 47, 5795-7	5.8	105
550	Biological hydrogen production in a UASB reactor with granules. II: Reactor performance in 3-year operation. <i>Biotechnology and Bioengineering</i> , <b>2006</b> , 94, 988-95	4.9	102
549	Photocatalytic degradation of bisphenol A by oxygen-rich and highly visible-light responsive Bi <sub>2</sub> O <sub>3</sub> /TiO <sub>2</sub> nanobelts. <i>Applied Catalysis B: Environmental</i> , <b>2017</b> , 200, 659-665	21.8	101

548	Characterizing the extracellular and intracellular fluorescent products of activated sludge in a sequencing batch reactor. <i>Water Research</i> , <b>2008</b> , 42, 3173-81	12.5	101
547	Biological hydrogen production in a UASB reactor with granules. I: Physicochemical characteristics of hydrogen-producing granules. <i>Biotechnology and Bioengineering</i> , <b>2006</b> , 94, 980-7	4.9	101
546	Conductive carbon nanotube hydrogel as a bioanode for enhanced microbial electrocatalysis. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2014</b> , 6, 8158-64	9.5	100
545	Carbon nanotube/chitosan nanocomposite as a biocompatible biocathode material to enhance the electricity generation of a microbial fuel cell. <i>Energy and Environmental Science</i> , <b>2011</b> , 4, 1422	35.4	100
544	Electron acceptors for energy generation in microbial fuel cells fed with wastewaters: A mini-review. <i>Chemosphere</i> , <b>2015</b> , 140, 12-7	8.4	99
543	Kinetic analysis of an anaerobic filter treating soybean wastewater. <i>Water Research</i> , <b>1998</b> , 32, 3341-3352	12.5	98
542	Induced structural changes of humic acid by exposure of polystyrene microplastics: A spectroscopic insight. <i>Environmental Pollution</i> , <b>2018</b> , 233, 1-7	9.3	97
541	Is denitrifying anaerobic methane oxidation-centered technologies a solution for the sustainable operation of wastewater treatment Plants?. <i>Bioresource Technology</i> , <b>2017</b> , 234, 456-465	11	96
540	Free nitrous acid promotes hydrogen production from dark fermentation of waste activated sludge. <i>Water Research</i> , <b>2018</b> , 145, 113-124	12.5	96
539	DLVO approach to the flocculability of a photosynthetic H <sub>2</sub> -producing bacterium, <i>Rhodospseudomonas acidophila</i> . <i>Environmental Science &amp; Technology</i> , <b>2007</b> , 41, 4620-5	10.3	95
538	Efficient electrochemical production of glucaric acid and H via glucose electrolysis. <i>Nature Communications</i> , <b>2020</b> , 11, 265	17.4	93
537	Efficient electrochemical CO <sub>2</sub> reduction on a unique chrysanthemum-like Cu nanoflower electrode and direct observation of carbon deposit. <i>Electrochimica Acta</i> , <b>2014</b> , 139, 137-144	6.7	92
536	Modeling a granule-based anaerobic ammonium oxidizing (ANAMMOX) process. <i>Biotechnology and Bioengineering</i> , <b>2009</b> , 103, 490-9	4.9	92
535	Response surface methodological analysis on biohydrogen production by enriched anaerobic cultures. <i>Enzyme and Microbial Technology</i> , <b>2006</b> , 38, 905-913	3.8	92
534	Increasing Poly(ethylene oxide) Stability to 4.5 V by Surface Coating of the Cathode. <i>ACS Energy Letters</i> , <b>2020</b> , 5, 826-832	20.1	91
533	Continuous production of hydrogen from mixed volatile fatty acids with <i>Rhodospseudomonas capsulata</i> . <i>International Journal of Hydrogen Energy</i> , <b>2006</b> , 31, 1641-1647	6.7	90
532	Response surface analysis to evaluate the influence of pH, temperature and substrate concentration on the acidogenesis of sucrose-rich wastewater. <i>Biochemical Engineering Journal</i> , <b>2005</b> , 23, 175-184	4.2	90
531	In-situ utilization of generated electricity in an electrochemical membrane bioreactor to mitigate membrane fouling. <i>Water Research</i> , <b>2013</b> , 47, 5794-800	12.5	88



530	Probing the secondary structure of bovine serum albumin during heat-induced denaturation using mid-infrared fiberoptic sensors. <i>Analyst, The</i> , <b>2015</b> , 140, 765-70	5	88
529	Manipulating the hydrogen production from acetate in a microbial electrolysis cell-microbial fuel cell-coupled system. <i>Journal of Power Sources</i> , <b>2009</b> , 191, 338-343	8.9	88
528	Anaerobic biodecolorization mechanism of methyl orange by <i>Shewanella oneidensis</i> MR-1. <i>Applied Microbiology and Biotechnology</i> , <b>2012</b> , 93, 1769-76	5.7	87
527	A new cathodic electrode deposit with palladium nanoparticles for cost-effective hydrogen production in a microbial electrolysis cell. <i>International Journal of Hydrogen Energy</i> , <b>2011</b> , 36, 2773-2776	6.7	87
526	Radiation-induced degradation of polyvinyl alcohol in aqueous solutions. <i>Water Research</i> , <b>2004</b> , 38, 309-16.5	16.5	86
525	Potential impact of salinity on methane production from food waste anaerobic digestion. <i>Waste Management</i> , <b>2017</b> , 67, 308-314	8.6	85
524	Facile synthesis of InS/UiO-66 composite with enhanced adsorption performance and photocatalytic activity for the removal of tetracycline under visible light irradiation. <i>Journal of Colloid and Interface Science</i> , <b>2019</b> , 535, 444-457	9.3	83
523	Hydrated lanthanum oxide-modified diatomite as highly efficient adsorbent for low-concentration phosphate removal from secondary effluents. <i>Journal of Environmental Management</i> , <b>2019</b> , 231, 370-379	7.9	82
522	Heterogeneous activation of peroxymonosulfate using Mn-Fe layered double hydroxide: Performance and mechanism for organic pollutant degradation. <i>Science of the Total Environment</i> , <b>2019</b> , 663, 453-464	10.2	81
521	Epitaxial facet junctions on TiO <sub>2</sub> single crystals for efficient photocatalytic water splitting. <i>Energy and Environmental Science</i> , <b>2018</b> , 11, 1444-1448	35.4	81
520	Self-induced synthesis of phase-junction TiO <sub>2</sub> with a tailored rutile to anatase ratio below phase transition temperature. <i>Scientific Reports</i> , <b>2016</b> , 6, 20491	4.9	81
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