Dawei Yu

List of Publications by Year in Descending Order

100 papers	1,880 citations	26 h-index	39 g-index
106 ext. papers	2,613 ext. citations	6.9 avg, IF	5.36 L-index

#	Paper	IF	Citations
100	Chitosan/zein bilayer films with one-way water barrier characteristic: Physical, structural and thermal properties.. *International Journal of Biological Macromolecules*, **2022**, 200, 378-387	7.9	2
99	Metagenomics insights into the profiles of antibiotic resistome in combined sewage overflows from reads to metagenome assembly genomes.. *Journal of Hazardous Materials*, **2022**, 429, 128277	12.8	1
98	The key enzymes and flavor precursors involved in formation of characteristic flavor compounds of low-salt fermented common carp (Cyprinus carpio L.). *LWT - Food Science and Technology*, **2022**, 154, 112806	5.4	3
97	Distribution and transformation of dissolved organic matters (DOMs) in membrane distillation for desulfurization wastewater in thermal power plant. *Journal of Water Process Engineering*, **2022**, 46, 102363	6.7	
96	Identification of characteristic flavor and microorganisms related to flavor formation in fermented common carp (Cyprinus carpio L.).. *Food Research International*, **2022**, 155, 111128	7	3
95	Multifunctional bioactive coatings based on water-soluble chitosan with pomegranate peel extract for fish flesh preservation. *Food Chemistry*, **2021**, 374, 131619	8.5	2
94	Effect of rainfall characteristics on the sewer sediment, hydrograph, and pollutant discharge of combined sewer overflow. *Journal of Environmental Management*, **2021**, 303, 114268	7.9	1
93	Vacuum impregnation of chitosan coating combined with water-soluble polyphenol extracts on sensory, physical state, microbiota composition and quality of refrigerated grass carp slices. *International Journal of Biological Macromolecules*, **2021**, 193, 847-855	7.9	3
92	Model-Based Solution for Upgrading Nitrogen Removal for a Full-Scale Municipal Wastewater Treatment Plant with CASS Process. *Processes*, **2021**, 9, 527	2.9	0
91	Development and properties of bacterial cellulose, curcumin, and chitosan composite biodegradable films for active packaging materials. *Carbohydrate Polymers*, **2021**, 260, 117778	10.3	40
90	Comparison of an integrated short-cut biological nitrogen removal process with magnetic coagulation treating swine wastewater and food waste digestate. *Bioresource Technology*, **2021**, 329, 124904	11	4
89	Coupling anammox with denitrification in a full-scale combined biological nitrogen removal process for swine wastewater treatment. *Bioresource Technology*, **2021**, 329, 124906	11	10
88	Endogenous proteases in giant freshwater prawn (Macrobrachium rosenbergii): changes and its impacts on texture deterioration during frozen storage. *International Journal of Food Science and Technology*, **2021**, 56, 5824	3.8	0
87	Effect of proton pump inhibitor on microbial community, function, and kinetics in anaerobic digestion with ammonia stress. *Bioresource Technology*, **2021**, 319, 124118	11	8
86	Relevance of collagen solubility and gelatinolytic proteinase activity for texture softening in chilled grass carp (Ctenopharyngodon idellus) fillets. *International Journal of Food Science and Technology*, **2021**, 56, 1801-1808	3.8	5
85	A strategy of ultrasound-assisted processing to improve the performance of bio-based coating preservation for refrigerated carp fillets (Ctenopharyngodon idellus). *Food Chemistry*, **2021**, 345, 128862	8.5	15
84	The factors influencing the flavor characteristics of frozen obscure pufferfish (Takifugu Obscurus) during storage: Ice crystals, endogenous proteolysis and oxidation. *International Journal of Refrigeration*, **2021**, 122, 147-155	3.8	10

83	Prediction of the Long-Term Effect of Iron on Methane Yield in an Anaerobic Membrane Bioreactor Using Bayesian Network Meta-Analysis. *Membranes*, **2021**, 11,	3.8	1
82	Development of a Short-Cut Combined Magnetic Coagulation-Sequence Batch Membrane Bioreactor for Swine Wastewater Treatment. *Membranes*, **2021**, 11,	3.8	4
81	Advances in the application of chitosan as a sustainable bioactive material in food preservation. *Critical Reviews in Food Science and Nutrition*, **2021**, 1-36	11.5	5
80	The impact of crucial protein degradation in intramuscular connective tissue on softening of ice-stored grass carp (Ctenopharyngodon idella) fillets. *International Journal of Food Science and Technology*, **2021**, 56, 3527-3535	3.8	1
79	Numerical simulation on the effects of bubble size and internal structure on flow behavior in a DAF tank: A comparative study of CFD and CFD-PBM approach. *Chemical Engineering Journal Advances*, **2021**, 7, 100131	3.6	2
78	Delivery and effects of proton pump inhibitor on anaerobic digestion of food and kitchen waste under ammonia stress. *Journal of Hazardous Materials*, **2021**, 416, 126211	12.8	2
77	Comparison of methodological proposal in sensory evaluation for Chinese mitten crab (Eriocheir sinensis) by data mining and sensory panel. *Food Chemistry*, **2021**, 356, 129698	8.5	5
76	Insights into the ambient temperature startup of an anaerobic ceramic membrane bioreactor with thermally hydrolyzed inoculum for domestic wastewater treatment. *Case Studies in Chemical and Environmental Engineering*, **2021**, 4, 100122	7.5	1
75	Optimization of In Situ Backwashing Frequency for Stable Operation of Anaerobic Ceramic Membrane Bioreactor. *Processes*, **2020**, 8, 545	2.9	6
74	Effect of fermentation on immunological properties of allergens from black carp (Mylopharyngodon piceus) sausages. *International Journal of Food Science and Technology*, **2020**, 55, 3162-3172	3.8	0
73	Effects of hydraulic retention time on net present value and performance in a membrane bioreactor treating antibiotic production wastewater. *Frontiers of Environmental Science and Engineering*, **2020**, 14, 1	5.8	3
72	Effects of mixed-liquor rheology on vibration of hollow-fiber membrane via particle image velocimetry and computational fluid dynamics. *Separation and Purification Technology*, **2020**, 239, 116590	8.3	1
71	Correlations between microbiota succession and flavor formation during fermentation of Chinese low-salt fermented common carp (Cyprinus carpio L.) inoculated with mixed starter cultures. *Food Microbiology*, **2020**, 90, 103487	6	22
70	The performance evaluation and kinetics response of advanced anaerobic digestion for sewage sludge under different SRT during semi-continuous operation. *Bioresource Technology*, **2020**, 308, 123239	11	8
69	Roles of hydroxylamine and hydrazine in the in-situ recovery of one-stage partial nitritation-anammox process: Characteristics and mechanisms. *Science of the Total Environment*, **2020**, 707, 135648	10.2	15
68	Relieving ammonia inhibition by zero-valent iron (ZVI) dosing to enhance methanogenesis in the high solid anaerobic digestion of swine manure. *Waste Management*, **2020**, 118, 452-462	8.6	19
67	Ammonia stress decreased biomarker genes of acetoclastic methanogenesis and second peak of production rates during anaerobic digestion of swine manure. *Bioresource Technology*, **2020**, 317, 124012	11	6
66	The impacts of salt with Chinese liquor on the inhibition of microbial spoilage and quality attributes of grass carp (Ctenopharyngodon idellus) fillets stored at 4℃. *Journal of Food Processing and Preservation*, **2020**, 44, e14817	2.1	0

65	Effect of freezing methods on quality changes of grass carp during frozen storage. *Journal of Food Process Engineering*, **2020**, 43, e13539	2.4	3
64	Effects of Solids Retention Time on the Anaerobic Membrane Bioreactor with Yttria-Based Ceramic Membrane Treating Domestic Wastewater at Ambient Temperature. *Membranes*, **2020**, 10,	3.8	4
63	Recent advances in quality retention of non-frozen fish and fishery products: A review. *Critical Reviews in Food Science and Nutrition*, **2020**, 60, 1747-1759	11.5	32
62	Ammonia stress reduces antibiotic efflux but enriches horizontal gene transfer of antibiotic resistance genes in anaerobic digestion. *Bioresource Technology*, **2020**, 295, 122191	11	36
61	The inherited variations of a p53-responsive enhancer in 13q12.12 confer lung cancer risk by attenuating TNFRSF19 expression. *Genome Biology*, **2019**, 20, 103	18.3	14
60	Comparative study on quality characteristics of pickled and fermented sturgeon (Acipenser sinensis) meat in retort cooking. *International Journal of Food Science and Technology*, **2019**, 54, 2553-2562	3.8	10
59	The relationship between degradation of myofibrillar structural proteins and texture of superchilled grass carp (Ctenopharyngodon idella) fillet. *Food Chemistry*, **2019**, 301, 125278	8.5	24
58	Fates of intracellular and extracellular antibiotic resistance genes and microbial community structures in typical swine wastewater treatment processes. *Environment International*, **2019**, 133, 105183	13.9	30
57	Differential roles of ice crystal, endogenous proteolytic activities and oxidation in softening of obscure pufferfish (Takifugu obscurus) fillets during frozen storage. *Food Chemistry*, **2019**, 278, 452-459	8.5	31
56	Bio-based edible coatings for the preservation of fishery products: A Review. *Critical Reviews in Food Science and Nutrition*, **2019**, 59, 2481-2493	11.5	30
55	Inhibitory effects of chitosan-based coatings on endogenous enzyme activities, proteolytic degradation and texture softening of grass carp (Ctenopharyngodon idellus) fillets stored at 4 ℃. *Food Chemistry*, **2018**, 262, 1-6	8.5	38
54	Preparation of PVDF-CTFE hydrophobic membrane by non-solvent induced phase inversion: Relation between polymorphism and phase inversion. *Journal of Membrane Science*, **2018**, 550, 480-491	9.6	23
53	Effects of nitrogen and phosphorus concentrations on the growth of microalgae Scenedesmus. LX1 in suspended-solid phase photobioreactors (ssPBR). *Biomass and Bioenergy*, **2018**, 109, 47-53	5.3	34
52	Endogenous ternary pH buffer system with ammonia-carbonates-VFAs in high solid anaerobic digestion of swine manure: An alternative for alleviating ammonia inhibition?. *Process Biochemistry*, **2018**, 69, 144-152	4.8	34
51	Performance of a sequencing-batch membrane bioreactor (SMBR) with an automatic control strategy treating high-strength swine wastewater. *Journal of Hazardous Materials*, **2018**, 342, 210-219	12.8	30
50	Effects of chlortetracycline, Cu and their combination on the performance and microbial community dynamics in swine manure anaerobic digestion. *Journal of Environmental Sciences*, **2018**, 67, 206-215	6.4	21
49	The effects of edible chitosan-based coatings on flavor quality of raw grass carp (Ctenopharyngodon idellus) fillets during refrigerated storage. *Food Chemistry*, **2018**, 242, 412-420	8.5	113
48	Dynamics and diversity of microbial community succession during fermentation of Suan yu, a Chinese traditional fermented fish, determined by high throughput sequencing. *Food Research International*, **2018**, 111, 565-573	7	65

47	Inhibition of microbial spoilage of grass carp (Ctenopharyngodon idellus) fillets with a chitosan-based coating during refrigerated storage. *International Journal of Food Microbiology*, **2018**, 285, 61-68	5.8	27
46	The characteristics and influencing factors of the attached microalgae cultivation: A review. *Renewable and Sustainable Energy Reviews*, **2018**, 94, 1110-1119	16.2	69
45	Formation and characteristics of a ternary pH buffer system for in-situ biogas upgrading in two-phase anaerobic membrane bioreactor treating starch wastewater. *Bioresource Technology*, **2018**, 269, 57-66	11	23
44	Does the biological treatment or membrane separation reduce the antibiotic resistance genes from swine wastewater through a sequencing-batch membrane bioreactor treatment process. *Environment International*, **2018**, 118, 274-281	12.9	28
43	Biochemical Conversion and Microbial Community in Response to Ternary pH Buffer System during Anaerobic Digestion of Swine Manure. *Energies*, **2018**, 11, 2991	3.1	12
42	Characterization and Dynamic Shift of Microbial Communities during Start-Up, Overloading and Steady-State in an Anaerobic Membrane Bioreactor. *International Journal of Environmental Research and Public Health*, **2018**, 15,	4.6	11
41	Membrane Fouling Characteristics of a Side-Stream Tubular Anaerobic Membrane Bioreactor (AnMBR) Treating Domestic Wastewater. *Processes*, **2018**, 6, 50	2.9	16
40	Effects of endogenous inhibitors on the evolution of antibiotic resistance genes during high solid anaerobic digestion of swine manure. *Bioresource Technology*, **2018**, 270, 328-336	11	21
39	Numerical optimization of membrane module design and operation for a full-scale submerged MBR by computational fluid dynamics. *Bioresource Technology*, **2018**, 269, 300-308	11	16
38	Quality of giant freshwater prawn (Macrobrachium rosenbergii) during the storage at −18°C as affected by different methods of freezing. *International Journal of Food Properties*, **2018**, 21, 2100-2109	3	10
37	Characteristics and formation mechanism of membrane fouling in a full-scale RO wastewater reclamation process: Membrane autopsy and fouling characterization. *Journal of Membrane Science*, **2018**, 563, 843-856	9.6	48
36	Fouling characteristics and cleaning strategies of NF membranes for the advanced treatment of antibiotic production wastewater. *Environmental Science and Pollution Research*, **2017**, 24, 8967-8977	5.1	9
35	Physicochemical, microbiological, and sensory attributes of chitosan-coated grass carp (Ctenopharyngodon idellus) fillets stored at 4°C. *International Journal of Food Properties*, **2017**, 20, 390-401	3	26
34	Fouling analysis of membrane bioreactor treating antibiotic production wastewater at different hydraulic retention times. *Environmental Science and Pollution Research*, **2017**, 24, 9026-9035	5.1	9
33	The shelf life extension of refrigerated grass carp (Ctenopharyngodon idellus) fillets by chitosan coating combined with glycerol monolaurate. *International Journal of Biological Macromolecules*, **2017**, 101, 448-454	7.9	65
32	Theoretical investigation of high-efficiency organic electroluminescent material: HLCT state and hot exciton process. *RSC Advances*, **2017**, 7, 19576-19583	3.7	24
31	The Effects of Chitosan Coating on Biogenic Amines Inhibition and Microbial Succession of Refrigerated Grass Carp (Ctenopharyngodon idellus) Fillets. *Journal of Aquatic Food Product Technology*, **2017**, 26, 1266-1279	1.6	5
30	Profiles and drivers of antibiotic resistance genes distribution in one-stage and two-stage sludge anaerobic digestion based on microwave-HO pretreatment. *Bioresource Technology*, **2017**, 241, 573-581	11	35

29	Effects of aeration on matrix temperature by infrared thermal imager and computational fluid dynamics during sludge bio-drying. *Water Research*, **2017**, 122, 317-328	12.5	19
28	Who contributes more to NO emission during sludge bio-drying with two different aeration strategies, nitrifiers or denitrifiers?. *Applied Microbiology and Biotechnology*, **2017**, 101, 3393-3404	5.7	11
27	Optimization of MBR hydrodynamics for cake layer fouling control through CFD simulation and RSM design. *Bioresource Technology*, **2017**, 227, 102-111	11	52
26	Numerical simulation of scaling-up for AEC-MBRs regarding membrane module configurations and cyclic aeration modes. *Bioresource Technology*, **2017**, 245, 933-943	11	5
25	Effects of chitosan coating combined with essential oils on quality and antioxidant enzyme activities of grass carp (Ctenopharyngodon idellus) fillets stored at 4□C. *International Journal of Food Science and Technology*, **2017**, 52, 404-412	3.8	29
24	Freshness assessment of grass carp (Ctenopharyngodon idellus) fillets during stroage at 4□C by physicochemical, microbiological and sensorial evaluations. *Journal of Food Safety*, **2017**, 37, e12305	2	11
23	Optimization and microbial community analysis of anaerobic co-digestion of food waste and sewage sludge based on microwave pretreatment. *Bioresource Technology*, **2016**, 200, 253-61	11	145
22	Characterization of Rayleigh backscattering arising in various two-mode fibers. *Optics Express*, **2016**, 24, 12192-201	3.3	4
21	CFD simulation and optimization of membrane scouring and nitrogen removal for an airlift external circulation membrane bioreactor. *Bioresource Technology*, **2016**, 219, 566-575	11	19
20	All-Fiber Tunable LP11 Mode Rotator With 360□Range. *IEEE Photonics Journal*, **2016**, 8, 1-7	1.8	7
19	Multiple effects of trace elements on methanogenesis in a two-phase anaerobic membrane bioreactor treating starch wastewater. *Applied Microbiology and Biotechnology*, **2016**, 100, 6631-6642	5.7	9
18	Biogas-pH automation control strategy for optimizing organic loading rate of anaerobic membrane bioreactor treating high COD wastewater. *Bioresource Technology*, **2016**, 203, 62-70	11	27
17	Enhanced attached growth of microalgae Scenedesmus. LX1 through ambient bacterial pre-coating of cotton fiber carriers. *Bioresource Technology*, **2016**, 218, 643-9	11	20
16	Comparison of NF membrane fouling and cleaning by two pretreatment strategies for the advanced treatment of antibiotic production wastewater. *Water Science and Technology*, **2016**, 73, 2260-7	2.2	1
15	Rheological properties of sewage sludge during enhanced anaerobic digestion with microwave-H2O2 pretreatment. *Water Research*, **2016**, 98, 98-108	12.5	70
14	Effects of returning NF concentrate on the MBR-NF process treating antibiotic production wastewater. *Environmental Science and Pollution Research*, **2016**, 23, 13114-27	5.1	4
13	A Robust Mode Converter Based on Liquid Crystal on Silicon (LCOS) With Off-Focus Operation. *IEEE Photonics Journal*, **2015**, 7, 1-8	1.8	1
12	Microfluidic Flow through Polyaniline Supported by Lamellar-Structured Graphene for Mass-Transfer-Enhanced Electrocatalytic Reduction of Hexavalent Chromium. *Environmental Science & Technology*, **2015**, 49, 13534-41	10.3	64

11	Overview of membrane technology applications for industrial wastewater treatment in China to increase water supply. *Resources, Conservation and Recycling*, **2015**, 105, 1-10	11.9	60
10	Characterization and mitigation of phase-modulation-dependent loss of liquid crystal on silicon. *Optics Letters*, **2015**, 40, 1484-7	3	4
9	Role Underplayed: Research on the Weakening Function of the All-China Sports Federation from a Historical Perspective. *International Journal of the History of Sport*, **2015**, 32, 1279-1290	0.1	2
8	Mode-dependent characteristics of Rayleigh backscattering in weakly-coupled few-mode fiber. *Optics Communications*, **2015**, 346, 15-20	2	10
7	SATB1 Mediates Long-Range Chromatin Interactions: A Dual Regulator of Anti-Apoptotic BCL2 and Pro-Apoptotic NOXA Genes. *PLoS ONE*, **2015**, 10, e0139170	3.7	9
6	Relative Phase Noise-Induced Phase Error and System Impairment in Pump Depletion/Nondepletion Regime. *Journal of Lightwave Technology*, **2014**, 32, 2277-2286	4	12
5	Expression of intracellular interferon-alpha confers antiviral properties in transfected bovine fetal fibroblasts and does not affect the full development of SCNT embryos. *PLoS ONE*, **2014**, 9, e94444	3.7	4
4	Improving Mass Transfer in Gas-Liquid by Ionic Liquids Dispersion. *Journal of Dispersion Science and Technology*, **2012**, 33, 1723-1729	1.5	6
3	Thermolysis of recombinant Escherichia coli for recovering a thermostable enzyme. *Biochemical Engineering Journal*, **2007**, 33, 94-98	4.2	10
2	A new study of cell disruption to release recombinant thermostable enzyme from Escherichia coli by thermolysis. *Journal of Biotechnology*, **2007**, 129, 668-73	3.7	29
1	Exploring an alternative source of DIETer to mitigate ammonia inhibition of swine manure by inoculum treating brewery wastewater. *Biomass Conversion and Biorefinery*,1	2.3	