Songwen Tan

List of Publications by Year
in descending order

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Version: 2024-02-01

58 papers	1,130 citations	361045 20 h-index	476904 29 g-index
58 all docs	58 docs citations	58 times ranked	1187 citing authors

#	Article	IF	Citations
1	A critical review on saline wastewater treatment by membrane bioreactor (MBR) from a microbial perspective. Chemosphere, 2019, 220, 1150-1162.	4.2	150
2	A Literature Review on Maillard Reaction Based on Milk Proteins and Carbohydrates in Food and Pharmaceutical Products: Advantages, Disadvantages, and Avoidance Strategies. Foods, 2021, 10, 1998.	1.9	50
3	Milk powder-derived bifunctional oxygen electrocatalysts for rechargeable Zn-air battery. Energy Storage Materials, 2018, 11, 134-143.	9.5	45
4	A review of stevia as a potential healthcare product: Up-to-date functional characteristics, administrative standards and engineering techniques. Trends in Food Science and Technology, 2020, 103, 264-281.	7.8	39
5	A critical review of spray-dried amorphous pharmaceuticals: Synthesis, analysis and application. International Journal of Pharmaceutics, 2021, 594, 120165.	2.6	36
6	Clay nanoparticles as pharmaceutical carriers in drug delivery systems. Expert Opinion on Drug Delivery, 2021, 18, 695-714.	2.4	35
7	Choosing the appropriate wall materials for spray-drying microencapsulation of natural bioactive ingredients: Taking phenolic compounds as examples. Powder Technology, 2021, 394, 562-574.	2.1	34
8	Cultivation of activated sludge using sea mud as seed to treat industrial phenolic wastewater with high salinity. Marine Pollution Bulletin, 2017, 114, 867-870.	2.3	31
9	Recent Advances in the Development of Noble Metal NPs for Cancer Therapy. Bioinorganic Chemistry and Applications, 2022, 2022, 1-14.	1.8	31
10	The Feasibility of Antioxidants Avoiding Oxidative Damages from Reactive Oxygen Species in Cryopreservation. Frontiers in Chemistry, 2021, 9, 648684.	1.8	27
11	Controlled release of caffeine from tablets of spray-dried casein gels. Food Hydrocolloids, 2019, 88, 13-20.	5.6	26
12	Redox and pH dual-responsive biodegradable mesoporous silica nanoparticle as a potential drug carrier for synergistic cancer therapy. Ceramics International, 2021, 47, 4572-4578.	2.3	26
13	Study on the interaction between typical phthalic acid esters (PAEs) and human haemoglobin (hHb) by molecular docking. Environmental Toxicology and Pharmacology, 2017, 53, 206-211.	2.0	25
14	Redness generation via Maillard reactions of whey protein isolate (WPI) and ascorbic acid (vitamin C) in spray-dried powders. Journal of Food Engineering, 2019, 244, 11-20.	2.7	25
15	Encapsulation of caffeine in spray-dried micro-eggs for controlled release: The effect of spray-drying (cooking) temperature. Food Hydrocolloids, 2020, 108, 105979.	5.6	25
16	Effect of bioflocculation on fouling-related biofoulants in a membrane bioreactor during saline wastewater treatments. Bioresource Technology, 2017, 224, 285-291.	4.8	24
17	Effect of spray-drying temperature on the formation of flower-like lactose for griseofulvin loading. European Journal of Pharmaceutical Sciences, 2018, 111, 534-539.	1.9	24
18	InÂvitro assessment of the toxicity of lead (Pb2+) to phycocyanin. Chemosphere, 2018, 192, 171-177.	4.2	23

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19	Template-directed flower-like lactose with micro-meso-macroporous structure. Materials and Design, 2017, 117, 178-184.	3.3	22
20	Real-time monitoring of the membrane biofouling based on spectroscopic analysis in a marine MBBR-MBR (moving bed biofilm reactor-membrane bioreactor) for saline wastewater treatment. Chemosphere, 2019, 235, 1154-1161.	4.2	22
21	Impact Assessment of heavy metal cations to the characteristics of photosynthetic phycocyanin. Journal of Hazardous Materials, 2020, 391, 122225.	6.5	20
22	Biodegradation of saline phenolic wastewater in a biological contact oxidation reactor with immobilized cells of Oceanimonas sp.. Biotechnology Letters, 2017, 39, 91-96.	1.1	19
23	Biodegradability of mesoporous silica nanoparticles. Ceramics International, 2021, 47, 31031-31041.	2.3	19
24	Antifreeze Proteins: Novel Applications and Navigation towards Their Clinical Application in Cryobanking. International Journal of Molecular Sciences, 2022, 23, 2639.	1.8	19
25	InÂvitro cytotoxicity of decabrominated diphenyl ether (PBDE-209) to human red blood cells (hRBCs). Chemosphere, 2017, 180, 312-316.	4.2	18
26	InÂvitro assessment of phthalate acid esters-trypsin complex formation. Chemosphere, 2017, 185, 29-35.	4.2	18
27	Fabrication of novel casein gel with controlled release property via acidification, spray drying and tableting approach. Colloids and Surfaces B: Biointerfaces, 2019, 177, 329-337.	2.5	18
28	Analysis of the biodegradation performance and biofouling in a halophilic MBBR-MBR to improve the treatment of disinfected saline wastewater. Chemosphere, 2021, 269, 128716.	4.2	18
29	Pre-gelation assisted spray drying of whey protein isolates (WPI) for microencapsulation and controlled release. LWT - Food Science and Technology, 2020, 117, 108625.	2.5	17
30	Role of templating agents in the spray drying and postcrystallization of lactose for the production of highly porous powders. Drying Technology, 2018, 36, 1882-1891.	1.7	16
31	Real-time monitoring of biofoulants in a membrane bioreactor during saline wastewater treatment for anti-fouling strategies. Bioresource Technology, 2017, 224, 183-187.	4.8	15
32	Spray drying assisted synthesis of porous carbons from whey powders for capacitive energy storage. Energy, 2018, 147, 308-316.	4.5	15
33	A Review of the Material Characteristics, Antifreeze Mechanisms, and Applications of Cryoprotectants (CPAs). Journal of Nanomaterials, 2021, 2021, 1-14.	1.5	15
34	Preparation of core-shell microspheres of lactose with flower-like morphology and tailored porosity. Powder Technology, 2018, 325, 309-315.	2.1	14
35	Microencapsulation of pepsin in the spray-dried WPI (whey protein isolates) matrices for controlled release. Journal of Food Engineering, 2019, 263, 147-154.	2.7	14
36	Smart release-control of microencapsulated ingredients from milk protein tablets using spray drying and heating. Food Hydrocolloids, 2019, 92, 181-188.	5.6	13

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37	Biodegradation performance and biofouling control of a halophilic biocarriers-MBR in saline pharmaceutical (ampicillin-containing) wastewater treatment. Chemosphere, 2021, 263, 127949.	4.2	13
38	Potential and applications of capillary electrophoresis for analyzing traditional Chinese medicine: a critical review. Analyst, The, 2021, 146, 4724-4736.	1.7	13
39	Study on the Mechanism of Astragalus Polysaccharide in Treating Pulmonary Fibrosis Based on â€œDrug-Target-Pathwayâ€•Network. Frontiers in Pharmacology, 2022, 13, 865065.	1.6	13
40	Behaviour of fouling-related components in an enhanced membrane bioreactor using marine activated sludge. Bioresource Technology, 2016, 220, 401-406.	4.8	12
41	Hollow flower-like lactose particles as potential drug carriers: Effect of particle size and feed concentration. Powder Technology, 2017, 320, 1-6.	2.1	12
42	Interaction studies of polybrominated diphenyl ethers (PBDEs) with human serum albumin (HSA): Molecular docking investigations. Environmental Toxicology and Pharmacology, 2017, 54, 34-39.	2.0	12
43	A critical review on granulation of pharmaceuticals and excipients: Principle, analysis and typical applications. Powder Technology, 2022, 401, 117329.	2.1	12
44	Exploring the application and mechanism of sodium hyaluronate in cryopreservation of red blood cells. Materials Today Bio, 2021, 12, 100156.	2.6	11
45	Principles and Protocols For Post-Cryopreservation Quality Evaluation of Stem Cells in Novel Biomedicine. Frontiers in Pharmacology, 2022, 13, 907943.	1.6	10
46	The toxicity of cadmium ion (Cd2+) to phycocyanin: an in vitro spectroscopic study. Environmental Science and Pollution Research, 2018, 25, 14544-14550.	2.7	6
47	Rapid detection of carbamate pesticide residues using microchip electrophoresis combining amperometric detection. Analytical and Bioanalytical Chemistry, 2021, 413, 3017-3026.	1.9	4
48	What the Microscale Systems â€œSeeâ€•In Biological Assemblies: Cells and Viruses?. Analytical Chemistry, 2022, 94, 59-74.	3.2	4
49	Alkalibacillus huanghaiensis Sp. Nov., a New Strain of Moderately Halophilic Bacterias Isolated from Sea Water of the Yellow Sea in China. Advanced Materials Research, 2012, 518-523, 8-15.	0.3	3
50	How does DNA â€˜meetâ€™ capillary-based microsystems?. Analyst, The, 2021, 146, 48-63.	1.7	3
51	Fluorescence coupled capillary electrophoresis as a strategy for tetrahedron DNA analysis. Talanta, 2021, 228, 122225.	2.9	3
52	Methods in Biosynthesis and Characterization of the Antifreeze Protein (AFP) for Potential Blood Cryopreservation. Journal of Nanomaterials, 2021, 2021, 1-8.	1.5	3
53	Tailoring Î±/Î² Ratio of Pollen-Like Anhydrous Lactose as Ingredient Carriers for Controlled Dissolution Rate. Crystals, 2021, 11, 1049.	1.0	3
54	Crystalline Micro- and Nano-Materials for Medical and Other Biochemical Applications. Crystals, 2021, 11, 1361.	1.0	2

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55	Alkalibacillus weihaiensis Sp. Nov., a Moderately Halophilic Bacterium from Sea Mud of the Yellow Sea, China. Advanced Materials Research, 2012, 518-523, 16-22.	0.3	1
56	The Composition-Tunable Polydiacetylenic Complex Films: Conformational Change upon Thermal Stimulation and Preferential Interaction with Specific Small Molecules. Journal of Nanomaterials, 2017, 2017, 1-7.	1.5	1
57	Preparation and preliminary quality evaluation of aspirin/L-glutamate compound pellets. Journal of Materials Science: Materials in Medicine, 2021, 32, 116.	1.7	1
58	Cryopreservation of Animals and Cryonics: Current Technical Progress, Difficulties and Possible Research Directions. Frontiers in Veterinary Science, 0, 9, .	0.9	0