

Winston Duo Wu

List of Publications by Year in Descending Order

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Version: 2024-04-28

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

67
papers

1,623
citations

25
h-index

37
g-index

69
ext. papers

1,942
ext. citations

7.1
avg. IF

4.89
L-index

#	Paper	IF	Citations
67	Effects of particle formation behavior on the properties of fish oil microcapsules fabricated using a micro-fluidic jet spray dryer. <i>International Journal of Food Engineering</i> , 2021 , 17, 27-36	1.9	
66	Study on the Stability, Evolution of Physicochemical Properties, and Postsynthesis of Metal-Organic Frameworks in Bubbled Aqueous Ozone Solution. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 26264-26277	9.5	17
65	Sintering- and oxidation-resistant ultrasmall Cu(I)/(II) oxides supported on defect-rich mesoporous alumina microspheres boosting catalytic ozonation. <i>Journal of Colloid and Interface Science</i> , 2021 , 581, 964-978	9.3	9
64	Combination of spray drying encapsulation and steaming transformation toward robust hierarchical zeolite microspheres: Synthesis, formation mechanism and acid catalysis. <i>Chemical Engineering Science</i> , 2021 , 229, 116080	4.4	3
63	Oxone activation by UVA-irradiated Fe(III)-NTA complex: Efficacy, radicals formation and mechanism on crotonaldehyde degradation. <i>Chemical Engineering Journal</i> , 2021 , 408, 127324	14.7	2
62	Microfluidic spray dried and spray freeze dried uniform microparticles potentially for intranasal drug delivery and controlled release. <i>Powder Technology</i> , 2021 , 379, 144-153	5.2	5
61	Uniform lactose microspheres with high crystallinity fabricated by micro-fluidic spray drying technology combined with post-treatment process. <i>Powder Technology</i> , 2021 , 392, 690-702	5.2	2
60	Nanostructured semiconductor supported iron catalysts for heterogeneous photo-Fenton oxidation: a review. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 15513-15546	13	50
59	Interplaying Effects of Wall and Core Materials on the Property and Functionality of Microparticles for Co-Encapsulation of Vitamin E with Coenzyme Q10. <i>Food and Bioprocess Technology</i> , 2020 , 13, 705-721	5.1	15
58	A Bimetallic Fe-Mn Oxide-Activated Oxone for In Situ Chemical Oxidation (ISCO) of Trichloroethylene in Groundwater: Efficiency, Sustained Activity, and Mechanism Investigation. <i>Environmental Science & Technology</i> , 2020 , 54, 3714-3724	10.3	37
57	Scalable Synthesis of Uniform Mesoporous Aluminosilicate Microspheres with Controllable Size and Morphology and High Hydrothermal Stability for Efficient Acid Catalysis. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 21922-21935	9.5	9
56	Facile synthesis of mesoporous anatase/rutile/hematite triple heterojunctions for superior heterogeneous photo-Fenton catalysis. <i>Applied Catalysis B: Environmental</i> , 2020 , 263, 118335	21.8	34
55	Spray-drying water-based assembly of hierarchical and ordered mesoporous silica microparticles with enhanced pore accessibility for efficient bio-adsorption. <i>Journal of Colloid and Interface Science</i> , 2019 , 556, 529-540	9.3	10
54	Solvent-free nanocasting toward universal synthesis of ordered mesoporous transition metal sulfide@N-doped carbon composites for electrochemical applications. <i>Nano Research</i> , 2019 , 12, 2250-2258	10	18
53	Facile synthesis of alkaline-earth metal manganites for the efficient degradation of phenolic compounds via catalytic ozonation and evaluation of the reaction mechanism. <i>Journal of Colloid and Interface Science</i> , 2019 , 551, 164-176	9.3	14
52	Chemical Crosslinking Assembly of ZSM-5 Nanozeolites into Uniform and Hierarchically Porous Microparticles for High-Performance Acid Catalysis. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 16693-16703	9.5	20
51	Hydroxyl and sulfate radicals formation in UVA/Fe(III)-NTA/S ₂ O ₈ ²⁻ system: Mechanism and effectiveness in carbamazepine degradation at initial neutral pH. <i>Chemical Engineering Journal</i> , 2019 , 368, 541-552	14.7	21

50	Enhanced emerging pharmaceuticals removal in wastewater after biotreatment by a low-pressure UVA/FeIII-EDDS/H ₂ O ₂ process under neutral pH conditions. <i>Chemical Engineering Journal</i> , 2019 , 366, 539-549	14.7	18
49	Numerical simulation of mono-disperse droplet spray dryer: Coupling distinctively different sized chambers. <i>Chemical Engineering Science</i> , 2019 , 200, 12-26	4.4	1
48	Self-floating monodisperse microparticles with a nano-engineered surface composition and structure for highly efficient solar-driven water evaporation. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 6963-6971	13	24
47	Determination of phenol degradation in chloride ion rich water by ferrate using a chromatographic method in combination with on-line mass spectrometry analysis. <i>Analytical Methods</i> , 2019 , 11, 4651-4658 ³⁻²	3.2	5
46	Numerical simulation of mono-disperse droplet spray dryer under the influence of nozzle motion. <i>Powder Technology</i> , 2019 , 355, 93-105	5.2	4
45	Co-encapsulation of coenzyme Q10 and vitamin E: A study of microcapsule formation and its relation to structure and functionalities using single droplet drying and micro-fluidic-jet spray drying. <i>Journal of Food Engineering</i> , 2019 , 247, 45-55	6	21
44	Uniform mesoporous carbon hollow microspheres imparted with surface-enriched gold nanoparticles enable fast flow adsorption and catalytic reduction of nitrophenols. <i>Journal of Colloid and Interface Science</i> , 2019 , 537, 112-122	9.3	10
43	Spray drying of <i>Lactobacillus rhamnosus</i> GG with calcium-containing protectant for enhanced viability. <i>Powder Technology</i> , 2019 , 358, 87-94	5.2	24
42	Fabrication of uniform enzyme-immobilized carbohydrate microparticles with high enzymatic activity and stability via spray drying and spray freeze drying. <i>Powder Technology</i> , 2018 , 330, 40-49	5.2	17
41	Scalable synthesis of wrinkled mesoporous titania microspheres with uniform large micron sizes for efficient removal of Cr(VI). <i>Journal of Materials Chemistry A</i> , 2018 , 6, 3954-3966	13	38
40	Sulfur rich microporous polymer enables rapid and efficient removal of mercury(II) from water. <i>Chemosphere</i> , 2018 , 196, 174-181	8.4	40
39	As(V) and Sb(V) co-adsorption onto ferrihydrite: synergistic effect of Sb(V) on As(V) under competitive conditions. <i>Environmental Science and Pollution Research</i> , 2018 , 25, 14585-14594	5.1	27
38	Numerical investigation of droplet pre-dispersion in a monodisperse droplet spray dryer. <i>Particuology</i> , 2018 , 38, 44-60	2.8	8
37	Controllable Synthesis of Ordered Mesoporous MoC@Graphitic Carbon Core-Shell Nanowire Arrays for Efficient Electrocatalytic Hydrogen Evolution. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 18761-18770	9.5	23
36	Solid-state nanocasting synthesis of ordered mesoporous CoN-carbon catalysts for highly efficient hydrogenation of nitro compounds. <i>Nanoscale</i> , 2018 , 10, 16839-16847	7.7	22
35	Directly anchoring Fe ₃ C nanoclusters and FeN _x sites in ordered mesoporous nitrogen-doped graphitic carbons to boost electrocatalytic oxygen reduction. <i>Carbon</i> , 2017 , 121, 143-153	10.4	59
34	Nitrogen doped carbon materials derived from <i>Gentiana scabra</i> Bunge as high-performance catalysts for the oxygen reduction reaction. <i>New Journal of Chemistry</i> , 2017 , 41, 7392-7399	3.6	15
33	Formation process of core-shell microparticles by solute migration during drying of homogenous composite droplets. <i>AIChE Journal</i> , 2017 , 63, 3297-3310	3.6	10

32	Conformal Coating of Co/N-Doped Carbon Layers into Mesoporous Silica for Highly Efficient Catalytic Dehydrogenation-Hydrogenation Tandem Reactions. <i>Small</i> , 2017 , 13, 1702243	11	42
31	Surface-coating synthesis of nitrogen-doped inverse opal carbon materials with ultrathin micro/mesoporous graphene-like walls for oxygen reduction and supercapacitors. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 25237-25248	13	26
30	Spray-drying-assisted reassembly of uniform and large micro-sized MIL-101 microparticles with controllable morphologies for benzene adsorption. <i>Journal of Colloid and Interface Science</i> , 2017 , 506, 1-9	9.3	20
29	Direct Heating Amino Acids with Silica: A Universal Solvent-Free Assembly Approach to Highly Nitrogen-Doped Mesoporous Carbon Materials. <i>Advanced Functional Materials</i> , 2016 , 26, 6649-6661	15.6	60
28	In situ observation on particle formation process via single droplet drying apparatus: Effects of precursor composition on particle morphology. <i>Drying Technology</i> , 2016 , 34, 1700-1708	2.6	8
27	Multiscale modeling for nanoscale surface composition of spray-dried powders: The effect of initial droplet size. <i>Drying Technology</i> , 2016 , 34, 1063-1072	2.6	8
26	Aerosol-Assisted Fast Formulating Uniform Pharmaceutical Polymer Microparticles with Variable Properties toward pH-Sensitive Controlled Drug Release. <i>Polymers</i> , 2016 , 8,	4.5	6
25	Enteric-coated capsules filled with mono-disperse micro-particles containing PLGA-lipid-PEG nanoparticles for oral delivery of insulin. <i>International Journal of Pharmaceutics</i> , 2015 , 484, 181-91	6.5	58
24	Surface charge-reversible polyelectrolyte complex nanoparticles for hepatoma-targeting delivery of doxorubicin. <i>Journal of Materials Chemistry B</i> , 2015 , 3, 6185-6193	7.3	22
23	An analytical relationship of concentration-dependent interfacial solute distribution coefficient for aqueous layer freeze concentration. <i>AIChE Journal</i> , 2015 , 61, 1334-1344	3.6	8
22	An Improved Calculation Procedure on Surface Composition of Spray-Dried Protein-Sugar Two-Component Systems. <i>Drying Technology</i> , 2015 , 33, 817-821	2.6	6
21	Formation of uniform large SBA-15 microspheres via spray drying. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 19500-19508	13	29
20	Effects of Co-spray Drying of Surfactants with High Solids Milk on Milk Powder Wettability. <i>Food and Bioprocess Technology</i> , 2014 , 7, 3121-3135	5.1	18
19	Dairy Milk Particles Made with a Mono-Disperse Droplet Spray Dryer (MDDSD) Investigated for the Effect of Fat. <i>Drying Technology</i> , 2014 , 32, 528-542	2.6	13
18	Formation of monodisperse mesoporous silica microparticles via spray-drying. <i>Journal of Colloid and Interface Science</i> , 2014 , 418, 225-33	9.3	28
17	Towards spray drying of high solids dairy liquid: Effects of feed solid content on particle structure and functionality. <i>Journal of Food Engineering</i> , 2014 , 123, 130-135	6	45
16	On designing particulate carriers for encapsulation and controlled release applications. <i>Powder Technology</i> , 2013 , 236, 188-196	5.2	13
15	A general "surface-locking" approach toward fast assembly and processing of large-sized, ordered, mesoporous carbon microspheres. <i>Angewandte Chemie - International Edition</i> , 2013 , 52, 13764-8	16.4	72

14	On the formation of uniform alginate-silica microcomposites with ordered hierarchical structures. <i>Journal of Food Engineering</i> , 2013 , 119, 299-307	6	7
13	Particle shrinkage and morphology of milk powder made with a monodisperse spray dryer. <i>Biochemical Engineering Journal</i> , 2012 , 62, 92-100	4.2	57
12	Formation of novel mesoporous TiC microspheres through a sol-gel and carbothermal reduction process. <i>Journal of the European Ceramic Society</i> , 2012 , 32, 3407-3414	6	27
11	Spray drying of monodispersed microencapsulates: implications of formulation and process parameters on microstructural properties and controlled release functionality. <i>Journal of Microencapsulation</i> , 2012 , 29, 677-84	3.4	14
10	Assembly of magnetic microcomposites from low pH precursors using a novel micro-fluidic-jet-spray-dryer. <i>Chemical Engineering Research and Design</i> , 2012 , 90, 150-157	5.5	7
9	Facile spray-drying assembly of uniform microencapsulates with tunable core-shell structures and controlled release properties. <i>Langmuir</i> , 2011 , 27, 12910-5	4	56
8	Microfluidic spray drying as a versatile assembly route of functional particles. <i>Chemical Engineering Science</i> , 2011 , 66, 5531-5531	4.4	15
7	Monodisperse droplet formation through a continuous jet break-up using glass nozzles operated with piezoelectric pulsation. <i>AIChE Journal</i> , 2011 , 57, 1386-1392	3.6	61
6	Assembly of uniform photoluminescent microcomposites using a novel micro-fluidic-jet-spray-dryer. <i>AIChE Journal</i> , 2011 , 57, 2726-2737	3.6	58
5	On spray drying of uniform silica-based microencapsulates for controlled release. <i>Soft Matter</i> , 2011 , 7, 11416	3.6	25
4	Production of monodisperse epigallocatechin gallate (EGCG) microparticles by spray drying for high antioxidant activity retention. <i>International Journal of Pharmaceutics</i> , 2011 , 413, 155-66	6.5	58
3	Uniform Chitosan Microparticles Prepared by a Novel Spray-Drying Technique. <i>International Journal of Chemical Engineering</i> , 2011 , 2011, 1-7	2.2	30
2	Characteristics of Milk Powders Produced by Spray Freeze Drying. <i>Drying Technology</i> , 2008 , 26, 404-412	2.6	39
1	Monodisperse Droplet Generators as Potential Atomizers for Spray Drying Technology. <i>Drying Technology</i> , 2007 , 25, 1907-1916	2.6	60