Winston Duo Wu

List of Publications by Citations

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	A general "surface-locking" approach toward fast assembly and processing of large-sized, ordered, mesoporous carbon microspheres. *Angewandte Chemie - International Edition*, **2013**, 52, 13764-8	16.4	72
66	Monodisperse droplet formation through a continuous jet break-up using glass nozzles operated with piezoelectric pulsation. *AICHE Journal*, **2011**, 57, 1386-1392	3.6	61
65	Direct Heating Amino Acids with Silica: A Universal Solvent-Free Assembly Approach to Highly Nitrogen-Doped Mesoporous Carbon Materials. *Advanced Functional Materials*, **2016**, 26, 6649-6661	15.6	60
64	Monodisperse Droplet Generators as Potential Atomizers for Spray Drying Technology. *Drying Technology*, **2007**, 25, 1907-1916	2.6	60
63	Directly anchoring Fe3C nanoclusters and FeNx sites in ordered mesoporous nitrogen-doped graphitic carbons to boost electrocatalytic oxygen reduction. *Carbon*, **2017**, 121, 143-153	10.4	59
62	Enteric-coated capsules filled with mono-disperse micro-particles containing PLGA-lipid-PEG nanoparticles for oral delivery of insulin. *International Journal of Pharmaceutics*, **2015**, 484, 181-91	6.5	58
61	Assembly of uniform photoluminescent microcomposites using a novel micro-fluidic-jet-spray-dryer. *AICHE Journal*, **2011**, 57, 2726-2737	3.6	58
60	Production of monodisperse epigallocatechin gallate (EGCG) microparticles by spray drying for high antioxidant activity retention. *International Journal of Pharmaceutics*, **2011**, 413, 155-66	6.5	58
59	Particle shrinkage and morphology of milk powder made with a monodisperse spray dryer. *Biochemical Engineering Journal*, **2012**, 62, 92-100	4.2	57
58	Facile spray-drying assembly of uniform microencapsulates with tunable core-shell structures and controlled release properties. *Langmuir*, **2011**, 27, 12910-5	4	56
57	Nanostructured semiconductor supported iron catalysts for heterogeneous photo-Fenton oxidation: a review. *Journal of Materials Chemistry A*, **2020**, 8, 15513-15546	13	50
56	Towards spray drying of high solids dairy liquid: Effects of feed solid content on particle structure and functionality. *Journal of Food Engineering*, **2014**, 123, 130-135	6	45
55	Conformal Coating of Co/N-Doped Carbon Layers into Mesoporous Silica for Highly Efficient Catalytic Dehydrogenation-Hydrogenation Tandem Reactions. *Small*, **2017**, 13, 1702243	11	42
54	Sulfur rich microporous polymer enables rapid and efficient removal of mercury(II) from water. *Chemosphere*, **2018**, 196, 174-181	8.4	40
53	Characteristics of Milk Powders Produced by Spray Freeze Drying. *Drying Technology*, **2008**, 26, 404-412	2.6	39
52	Scalable synthesis of wrinkled mesoporous titania microspheres with uniform large micron sizes for efficient removal of Cr(VI). *Journal of Materials Chemistry A*, **2018**, 6, 3954-3966	13	38
51	A Bimetallic Fe-Mn Oxide-Activated Oxone for In Situ Chemical Oxidation (ISCO) of Trichloroethylene in Groundwater: Efficiency, Sustained Activity, and Mechanism Investigation. *Environmental Science & Technology*, **2020**, 54, 3714-3724	10.3	37

50	Facile synthesis of mesoporous anatase/rutile/hematite triple heterojunctions for superior heterogeneous photo-Fenton catalysis. *Applied Catalysis B: Environmental*, **2020**, 263, 118335	21.8	34
49	Controllable Synthesis of Ordered Mesoporous MoC@Graphitic Carbon Core-Shell Nanowire Arrays for Efficient Electrocatalytic Hydrogen Evolution. *ACS Applied Materials & Interfaces*, **2018**, 10, 18761-18770	9.5	33
48	Uniform Chitosan Microparticles Prepared by a Novel Spray-Drying Technique. *International Journal of Chemical Engineering*, **2011**, 2011, 1-7	2.2	30
47	Formation of uniform large SBA-15 microspheres via spray drying. *Journal of Materials Chemistry A*, **2014**, 2, 19500-19508	13	29
46	Formation of monodisperse mesoporous silica microparticles via spray-drying. *Journal of Colloid and Interface Science*, **2014**, 418, 225-33	9.3	28
45	As(V) and Sb(V) co-adsorption onto ferrihydrite: synergistic effect of Sb(V) on As(V) under competitive conditions. *Environmental Science and Pollution Research*, **2018**, 25, 14585-14594	5.1	27
44	Formation of novel mesoporous TiC microspheres through a sol–gel and carbothermal reduction process. *Journal of the European Ceramic Society*, **2012**, 32, 3407-3414	6	27
43	Surface-coating synthesis of nitrogen-doped inverse opal carbon materials with ultrathin micro/mesoporous graphene-like walls for oxygen reduction and supercapacitors. *Journal of Materials Chemistry A*, **2017**, 5, 25237-25248	13	26
42	On spray drying of uniform silica-based microencapsulates for controlled release. *Soft Matter*, **2011**, 7, 11416	3.6	25
41	Self-floating monodisperse microparticles with a nano-engineered surface composition and structure for highly efficient solar-driven water evaporation. *Journal of Materials Chemistry A*, **2019**, 7, 6963-6971	13	24
40	Spray drying of Lactobacillus rhamnosus GG with calcium-containing protectant for enhanced viability. *Powder Technology*, **2019**, 358, 87-94	5.2	24
39	Surface charge-reversible polyelectrolyte complex nanoparticles for hepatoma-targeting delivery of doxorubicin. *Journal of Materials Chemistry B*, **2015**, 3, 6185-6193	7.3	22
38	Solid-state nanocasting synthesis of ordered mesoporous CoN-carbon catalysts for highly efficient hydrogenation of nitro compounds. *Nanoscale*, **2018**, 10, 16839-16847	7.7	22
37	Hydroxyl and sulfate radicals formation in UVA/FeIII-NTA/S2O82− system: Mechanism and effectiveness in carbamazepine degradation at initial neutral pH. *Chemical Engineering Journal*, **2019**, 368, 541-552	14.7	21
36	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. *Journal of Food Engineering*, **2019**, 247, 45-55	6	21
35	Chemical Crosslinking Assembly of ZSM-5 Nanozeolites into Uniform and Hierarchically Porous Microparticles for High-Performance Acid Catalysis. *ACS Applied Materials & Interfaces*, **2019**, 11, 16693-16703	9.5	20
34	Spray-drying-assisted reassembly of uniform and large micro-sized MIL-101 microparticles with controllable morphologies for benzene adsorption. *Journal of Colloid and Interface Science*, **2017**, 506, 1-9	9.3	20
33	Solvent-free nanocasting toward universal synthesis of ordered mesoporous transition metal sulfide@N-doped carbon composites for electrochemical applications. *Nano Research*, **2019**, 12, 2250-2258	10	18

32	Enhanced emerging pharmaceuticals removal in wastewater after biotreatment by a low-pressure UVA/FeIII-EDDS/H2O2 process under neutral pH conditions. *Chemical Engineering Journal*, **2019**, 366, 539-549	14.7	18
31	Effects of Co-spray Drying of Surfactants with High Solids Milk on Milk Powder Wettability. *Food and Bioprocess Technology*, **2014**, 7, 3121-3135	5.1	18
30	Fabrication of uniform enzyme-immobilized carbohydrate microparticles with high enzymatic activity and stability via spray drying and spray freeze drying. *Powder Technology*, **2018**, 330, 40-49	5.2	17
29	Nitrogen doped carbon materials derived from Gentiana scabra Bunge as high-performance catalysts for the oxygen reduction reaction. *New Journal of Chemistry*, **2017**, 41, 7392-7399	3.6	15
28	Interplaying Effects of Wall and Core Materials on the Property and Functionality of Microparticles for Co-Encapsulation of Vitamin E with Coenzyme Q10. *Food and Bioprocess Technology*, **2020**, 13, 705-721	5.1	15
27	Microfluidic spray drying as a versatile assembly route of functional particles. *Chemical Engineering Science*, **2011**, 66, 5531-5531	4.4	15
26	Facile synthesis of alkaline-earth metal manganites for the efficient degradation of phenolic compounds via catalytic ozonation and evaluation of the reaction mechanism. *Journal of Colloid and Interface Science*, **2019**, 551, 164-176	9.3	14
25	Spray drying of monodispersed microencapsulates: implications of formulation and process parameters on microstructural properties and controlled release functionality. *Journal of Microencapsulation*, **2012**, 29, 677-84	3.4	14
24	Dairy Milk Particles Made with a Mono-Disperse Droplet Spray Dryer (MDDSD) Investigated for the Effect of Fat. *Drying Technology*, **2014**, 32, 528-542	2.6	13
23	On designing particulate carriers for encapsulation and controlled release applications. *Powder Technology*, **2013**, 236, 188-196	5.2	13
22	Formation process of core-shell microparticles by solute migration during drying of homogenous composite droplets. *AICHE Journal*, **2017**, 63, 3297-3310	3.6	10
21	Spray-drying water-based assembly of hierarchical and ordered mesoporous silica microparticles with enhanced pore accessibility for efficient bio-adsorption. *Journal of Colloid and Interface Science*, **2019**, 556, 529-540	9.3	10
20	Uniform mesoporous carbon hollow microspheres imparted with surface-enriched gold nanoparticles enable fast flow adsorption and catalytic reduction of nitrophenols. *Journal of Colloid and Interface Science*, **2019**, 537, 112-122	9.3	10
19	Scalable Synthesis of Uniform Mesoporous Aluminosilicate Microspheres with Controllable Size and Morphology and High Hydrothermal Stability for Efficient Acid Catalysis. *ACS Applied Materials & Interfaces*, **2020**, 12, 21922-21935	9.5	9
18	Sintering- and oxidation-resistant ultrasmall Cu(I)/(II) oxides supported on defect-rich mesoporous alumina microspheres boosting catalytic ozonation. *Journal of Colloid and Interface Science*, **2021**, 581, 964-978	9.3	9
17	An analytical relationship of concentration-dependent interfacial solute distribution coefficient for aqueous layer freeze concentration. *AICHE Journal*, **2015**, 61, 1334-1344	3.6	8
16	Numerical investigation of droplet pre-dispersion in a monodisperse droplet spray dryer. *Particuology*, **2018**, 38, 44-60	2.8	8
15	In situ observation on particle formation process via single droplet drying apparatus: Effects of precursor composition on particle morphology. *Drying Technology*, **2016**, 34, 1700-1708	2.6	8

14	Multiscale modeling for nanoscale surface composition of spray-dried powders: The effect of initial droplet size. *Drying Technology*, **2016**, 34, 1063-1072	2.6	8
13	On the formation of uniform alginate-silica microcomposites with ordered hierarchical structures. *Journal of Food Engineering*, **2013**, 119, 299-307	6	7
12	Assembly of magnetic microcomposites from low pH precursors using a novel micro-fluidic-jet-spray-dryer. *Chemical Engineering Research and Design*, **2012**, 90, 150-157	5.5	7
11	An Improved Calculation Procedure on Surface Composition of Spray-Dried Protein-Sugar Two-Component Systems. *Drying Technology*, **2015**, 33, 817-821	2.6	6
10	Aerosol-Assisted Fast Formulating Uniform Pharmaceutical Polymer Microparticles with Variable Properties toward pH-Sensitive Controlled Drug Release. *Polymers*, **2016**, 8,	4.5	6
9	Determination of phenol degradation in chloride ion rich water by ferrate using a chromatographic method in combination with on-line mass spectrometry analysis. *Analytical Methods*, **2019**, 11, 4651-4658	3.2	5
8	Microfluidic spray dried and spray freeze dried uniform microparticles potentially for intranasal drug delivery and controlled release. *Powder Technology*, **2021**, 379, 144-153	5.2	5
7	Numerical simulation of mono-disperse droplet spray dryer under the influence of nozzle motion. *Powder Technology*, **2019**, 355, 93-105	5.2	4
6	Combination of spray drying encapsulation and steaming transformation toward robust hierarchical zeolite microspheres: Synthesis, formation mechanism and acid catalysis. *Chemical Engineering Science*, **2021**, 229, 116080	4.4	3
5	Oxone activation by UVA-irradiated FeIII-NTA complex: Efficacy, radicals formation and mechanism on crotamiton degradation. *Chemical Engineering Journal*, **2021**, 408, 127324	14.7	2
4	Uniform lactose microspheres with high crystallinity fabricated by micro-fluidic spray drying technology combined with post-treatment process. *Powder Technology*, **2021**, 392, 690-702	5.2	2
3	Numerical simulation of mono-disperse droplet spray dryer: Coupling distinctively different sized chambers. *Chemical Engineering Science*, **2019**, 200, 12-26	4.4	1
2	Study on the Stability, Evolution of Physicochemical Properties, and Postsynthesis of Metal-Organic Frameworks in Bubbled Aqueous Ozone Solution. *ACS Applied Materials & Interfaces*, **2021**, 13, 26264-26277	9.5	1
1	Effects of particle formation behavior on the properties of fish oil microcapsules fabricated using a micro-fluidic jet spray dryer. *International Journal of Food Engineering*, **2021**, 17, 27-36	1.9	