Yongsheng Han

List of Publications by Year in Descending Order

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Version: 2024-04-10

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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.

58 papers	986 citations	21 h-index	29 g-index
65 ext. papers	1,170 ext. citations	5.4 avg, IF	4.54 L-index

#	Paper	IF	Citations
58	Constructing electrostatic self-assembled ultrathin porous red 2D g-CN/FeN Schottky catalyst for high-efficiency tetracycline removal in photo-Fenton-like processes. *Journal of Colloid and Interface Science*, **2022**, 607, 1527-1539	9.3	3
57	Quantifying the Driving Force of Silver Crystallization by Chemical Potential Difference. *Industrial & Engineering Chemistry Research*, **2021**, 60, 14447-14454	3.9	1
56	Anisotropic Growth of Silver Dendrites Regulated by Preferential Adsorption of Nitrate Ions on Crystal Facets. *Crystal Research and Technology*, **2021**, 56, 2100014	1.3	1
55	The role of interface concentration gradient in the formation of silver dendritic particles. *Advanced Powder Technology*, **2021**, 32, 1766-1773	4.6	3
54	Designing heterointerface in BiOBr/g-C3N4 photocatalyst to enhance visible-light-driven photocatalytic performance in water purification. *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, **2021**, 624, 126796	5.1	5
53	Anisotropic lattice Boltzmann-phase-field modeling of crystal growth with melt convection induced by solid-liquid density change. *Journal of Materials Science and Technology*, **2020**, 57, 26-32	9.1	8
52	Numerical modeling of equiaxed crystal growth in solidification of binary alloys using a lattice Boltzmann-finite volume scheme. *Computational Materials Science*, **2020**, 184, 109855	3.2	3
51	Modification of glycerol force Field for simulating silver nucleation under a diffusion limited condition. *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, **2020**, 592, 124574	5.1	0
50	In Situ Investigation of Dynamic Silver Crystallization Driven by Chemical Reaction and Diffusion. *Research*, **2020**, 2020, 4370817	7.8	4
49	Phase-field modeling of complex dendritic structures in constrained growth of hexagonal close-packed crystals. *European Physical Journal E*, **2020**, 43, 28	1.5	0
48	Magnetically enhancing diffusion for dendrite-free and long-term stable lithium metal anodes. *Green Energy and Environment*, **2020**,	5.7	4
47	A perspective on morphology controlled synthesis of powder by tuning chemical diffusion and reaction. *Advanced Powder Technology*, **2020**, 31, 922-925	4.6	6
46	Shape Controllable Synthesis of Silver Particles by Selecting the Crystallization Routes. *KONA Powder and Particle Journal*, **2020**, 37, 166-175	3.4	3
45	Research progress in materials-oriented chemical engineering in China. *Reviews in Chemical Engineering*, **2019**, 35, 917-927	5	2
44	Lithium Dendrites Inhibition via Diffusion Enhancement. *Advanced Energy Materials*, **2019**, 9, 1900019	21.8	33
43	Dynamic Adsorption of Ions into Like-Charged Nanospace: A Dynamic Density Functional Theory Study. *Langmuir*, **2019**, 35, 4254-4262	4	14
42	Rational synthesis of silver nanowires at an electrode interface by diffusion limitation. *CrystEngComm*, **2019**, 21, 1466-1473	3.3	7

41	Dominant role of wettability in improving the specific capacitance. *Green Energy and Environment*, **2019**, 4, 171-179	5.7	23
40	An anisotropic lattice Boltzmann–Phase field scheme for numerical simulations of dendritic growth with melt convection. *International Journal of Heat and Mass Transfer*, **2019**, 133, 1240-1250	4.9	33
39	Adaptive Polymeric Coatings with Self-Reporting and Self-Healing Dual Functions from Porous Core–Shell Nanostructures. *Macromolecular Materials and Engineering*, **2018**, 303, 1700616	3.9	30
38	Oriented aggregation of silver particles in gel solutions. *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, **2018**, 555, 161-169	5.1	3
37	The effect of mixing on silver particle morphology in flow synthesis. *Chemical Engineering Science*, **2018**, 192, 254-263	4.4	4
36	Silver morphology indicating the evolution of concentration heterogeneity. *Chemical Engineering and Processing: Process Intensification*, **2018**, 134, 38-44	3.7	3
35	Shape-Dependent Aggregation of Silver Particles by Molecular Dynamics Simulation. *Crystals*, **2018**, 8, 405	2.3	3
34	pH-Responsive Polymer Coatings for Reporting Early Stages of Metal Corrosion. *Macromolecular Materials and Engineering*, **2017**, 302, 1700128	3.9	8
33	Shaping particles by chemical diffusion and reaction. *CrystEngComm*, **2017**, 19, 72-79	3.3	29
32	Influence of multi-walled carbon nanotubes on the thermoelectric properties of La-filled CoSb3 skutterudite composites. *Journal of Alloys and Compounds*, **2017**, 695, 1908-1912	5.7	13
31	A Different View of Solvent Effects in Crystallization. *Crystals*, **2017**, 7, 357	2.3	8
30	Diffusion controlling porphyrin assembled structures. *Chemical Engineering Journal*, **2016**, 283, 1051-1058	4.7	6
29	Controllable Synthesis of Silver Dendrites via an Interplay of Chemical Diffusion and Reaction. *Industrial & Engineering Chemistry Research*, **2016**, 55, 8319-8326	3.9	28
28	Multifunctional silver film with superhydrophobic and antibacterial properties. *Nano Research*, **2016**, 9, 442-450	10	22
27	Competition of Major Forces Dominating the Structures of Porphyrin Assembly. *Crystal Growth and Design*, **2016**, 16, 1942-1947	3.5	11
26	Quantitatively Relating Diffusion and Reaction for Shaping Particles. *Crystal Growth and Design*, **2016**, 16, 2850-2859	3.5	36
25	Regulating silver morphology via electrochemical reaction. *CrystEngComm*, **2015**, 17, 6014-6022	3.3	24
24	Shaping Particles via Controlling the Diffusion of Building Blocks. *Industrial & Engineering Chemistry Research*, **2015**, 54, 9742-9749	3.9	3

23	Manipulating silver dendritic structures via diffusion and reaction. *Chemical Engineering Science*, **2015**, 138, 457-464	4.4	33
22	Reversibly Switching Silver Hierarchical Structures via Reaction Kinetics. *Scientific Reports*, **2015**, 5, 14942	4.9	21
21	A compromise between competing forces dominating the diversity of aragonite structures. *CrystEngComm*, **2014**, 16, 1971-1977	3.3	12
20	A switch from classic crystallization to non-classic crystallization by controlling the diffusion of chemicals. *CrystEngComm*, **2014**, 16, 7633-7637	3.3	15
19	Fluorescence indicative pH drop in sonication. *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, **2014**, 445, 30-33	5.1	4
18	A facile sonochemical route for the fabrication of magnetic protein microcapsules for targeted delivery. *Chemistry - A European Journal*, **2013**, 19, 9485-8	4.8	23
17	Preparation of protein microcapsules with narrow size distribution by sonochemical method. *Colloid and Polymer Science*, **2013**, 291, 2271-2278	2.4	22
16	Dominant Role of Compromise between Diffusion and Reaction in the Formation of Snow-Shaped Vaterite. *Crystal Growth and Design*, **2013**, 13, 1820-1825	3.5	49
15	Diffusion-reaction compromise the polymorphs of precipitated calcium carbonate. *Particuology*, **2013**, 11, 301-308	2.8	30
14	Low-Temperature Preparation of Hierarchical Structure TiO2 for Flexible Dye-Sensitized Solar Cell. *Journal of the American Ceramic Society*, **2012**, 95, 1372-1377	3.8	19
13	Biocompatible protein nanocontainers for controlled drugs release. *ACS Nano*, **2010**, 4, 2838-44	16.7	62
12	Mechanism and kinetics of controlled drug release by temperature stimuli responsive protein nanocontainers. *Soft Matter*, **2010**, 6, 4942	3.6	15
11	Drug Release of Sonochemical Protein Containers. *Chemistry Letters*, **2010**, 39, 502-503	1.7	9
10	A New Model for the Synthesis of Hollow Particles via the Bubble Templating Method. *Crystal Growth and Design*, **2009**, 9, 3771-3775	3.5	50
9	Stability and size dependence of protein microspheres prepared by ultrasonication. *Journal of Materials Chemistry*, **2008**, 18, 5162		39
8	A molecular dynamics study on aqueous solutions for preparation of hollow CaCO3 particles. *Modelling and Simulation in Materials Science and Engineering*, **2008**, 16, 035006	2	2
7	Synthesis of hexagonal ZnO microtubes by a simple soft aqueous solution method. *Journal of the Ceramic Society of Japan*, **2008**, 116, 198-200	1	5
6	Sonochemical Synthesis of Magnetic Protein Container for Targeted Delivery. *Macromolecular Rapid Communications*, **2008**, 29, 1203-1207	4.8	48

5	Effect of temperature on the preparation and electrocatalytic properties of a spinel NiCo2O4/Ni electrode. *International Journal of Hydrogen Energy*, **2004**, 29, 605-610	6.7	79
4	Growth and characterization of dumbbell-shaped MgO nanowhiskers. *Ceramics International*, **2003**, 29, 663-666	5.1	10
3	The effect of Mg vapor source on the formation of MgO whiskers and sheets. *Journal of Crystal Growth*, **2002**, 245, 163-170	1.6	46
2	Developing hierarchical CdS/NiO hollow heterogeneous architectures for boosting photocatalytic hydrogen generation. *Nano Research*,1	10	2
1	Diffusion Enhancement to Stabilize Solid Electrolyte Interphase. *Advanced Energy Materials*,2101774	21.8	2