Christopher B Whitehead

List of Publications by Year
in descending order

10	327	1162367 8	1372195 10
papers	citations	h-index	g-index

10	10	10	287
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	LaMerâ€™s 1950 Model for Particle Formation of Instantaneous Nucleation and Diffusion-Controlled Growth: A Historical Look at the Modelâ€™s Origins, Assumptions, Equations, and Underlying Sulfur Sol Formation Kinetics Data. Chemistry of Materials, 2019, 31, 7116-7132.	3.2	111
2	LaMer's 1950 model of particle formation: a review and critical analysis of its classical nucleation and fluctuation theory basis, of competing models and mechanisms for phase-changes and particle formation, and then of its application to silver halide, semiconductor, metal, and metal-oxide nanoparticles. Materials Advances, 2021, 2, 186-235.	2.6	58
3	Mechanism-Enabled Population Balance Modeling of Particle Formation en Route to Particle Average Size and Size Distribution Understanding and Control. Journal of the American Chemical Society, 2019, 141, 15827-15839.	6.6	48
4	Particle Size Distributions via Mechanism-Enabled Population Balance Modeling. Journal of Physical Chemistry C, 2020, 124, 4852-4880.	1.5	30
5	Nucleation Kinetics and Molecular Mechanism in Transition-Metal Nanoparticle Formation: The Intriguing, Informative Case of a Bimetallic Precursor, {[(1,5-COD)Ir^IÂ·HPO₄]₂}^{2â€“}. Chemistry of Materials, 2019, 31, 2848-2862.	3.2	19
6	Particle formation mechanisms supported by in situ synchrotron XAFS and SAXS studies: a review of metal, metal-oxide, semiconductor and selected other nanoparticle formation reactions. Materials Advances, 2021, 2, 6532-6568.	2.6	18
7	Response to â€œParticle Size Is a Primary Determinant for Sigmoidal Kinetics of Nanoparticle Formation: A â€œDisproofâ€•of the Finkeâ€“Watzky (F-W) Nanoparticle Nucleation and Growth Mechanismâ€• Chemistry of Materials, 2020, 32, 3657-3672.	3.2	16
8	â€œBurst Nucleationâ€•vs Autocatalytic, â€œBurstâ€•Growth in Near-Monodisperse Particle-Formation Reactions. Journal of Physical Chemistry C, 2020, 124, 24543-24554.	1.5	15
9	Nanoparticle Formation Kinetics, Mechanisms, and Accurate Rate Constants: Examination of a Second-Generation Ir(0)n Particle Formation System by Five Monitoring Methods Plus Initial Mechanism-Enabled Population Balance Modeling. Journal of Physical Chemistry C, 2021, 125, 13449-13476.	1.5	6
10	Estimating reaction parameters in mechanismâ€enabled population balance models of nanoparticle size distributions: A Bayesian inverse problem approach. Journal of Computational Chemistry, 2022, 43, 43-56.	1.5	6