

# Christopher B Whitehead

## List of Publications by Year in Descending Order

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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.

10  
papers

175  
citations

7  
h-index

10  
g-index

10  
ext. papers

237  
ext. citations

6.5  
avg, IF

4.1  
L-index

#	Paper	IF	Citations
10	Estimating reaction parameters in mechanism-enabled population balance models of nanoparticle size distributions: A Bayesian inverse problem approach. <i>Journal of Computational Chemistry</i> , <b>2022</b> , 43, 43-56	3.5	2
9	Nanoparticle Formation Kinetics, Mechanisms, and Accurate Rate Constants: Examination of a Second-Generation Ir(0) <sub>n</sub> Particle Formation System by Five Monitoring Methods Plus Initial Mechanism-Enabled Population Balance Modeling. <i>Journal of Physical Chemistry C</i> , <b>2021</b> , 125, 13449-13476	3.8	4
8	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. <i>Materials Advances</i> , <b>2021</b> , 2, 161-227	3.3	20
7	Particle Size Distributions via Mechanism-Enabled Population Balance Modeling. <i>Journal of Physical Chemistry C</i> , <b>2020</b> , 124, 4852-4880	3.8	19
6	Response to Particle Size Is a Primary Determinant for Sigmoidal Kinetics of Nanoparticle Formation: A Disproof of the Finke-Watzky (F-W) Nanoparticle Nucleation and Growth Mechanism. <i>Chemistry of Materials</i> , <b>2020</b> , 32, 3657-3672	9.6	13
5	Burst Nucleation vs Autocatalytic, Burst Growth in Near-Monodisperse Particle-Formation Reactions. <i>Journal of Physical Chemistry C</i> , <b>2020</b> , 124, 24543-24554	3.8	8
4	LaMer's 1950 Model for Particle Formation of Instantaneous Nucleation and Diffusion-Controlled Growth: A Historical Look at the Model's Origins, Assumptions, Equations, and Underlying Sulfur Sol Formation Kinetics Data. <i>Chemistry of Materials</i> , <b>2019</b> , 31, 7116-7132	9.6	60
3	Mechanism-Enabled Population Balance Modeling of Particle Formation en Route to Particle Average Size and Size Distribution Understanding and Control. <i>Journal of the American Chemical Society</i> , <b>2019</b> , 141, 15827-15839	16.4	29
2	Nucleation Kinetics and Molecular Mechanism in Transition-Metal Nanoparticle Formation: The Intriguing, Informative Case of a Bimetallic Precursor, $\{[(1,5\text{-COD})\text{Ir}(\text{HPO}_4)_2]_2\}$ . <i>Chemistry of Materials</i> , <b>2019</b> , 31, 2848-2862	9.6	13
1	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. <i>Materials Advances</i> ,	3.3	7