Kristen A Fichthorn

List of Publications by Year
in descending order

21	497	759055 12	713332 21
papers	citations	h-index	g-index

21	21	21	640
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Single-Crystal Electrochemistry Reveals Why Metal Nanowires Grow. Journal of the American Chemical Society, 2018, 140, 14740-14746.	6.6	76
2	Revisiting the Polyol Synthesis of Silver Nanostructures: Role of Chloride in Nanocube Formation. ACS Nano, 2019, 13, 1849-1860.	7.3	69
3	Dynamic Contact Angles and Mechanisms of Motion of Water Droplets Moving on Nanopillared Superhydrophobic Surfaces: A Molecular Dynamics Simulation Study. Langmuir, 2018, 34, 9917-9926.	1.6	58
4	Modulating the Growth Rate, Aspect Ratio, and Yield of Copper Nanowires with Alkylamines. Chemistry of Materials, 2018, 30, 2809-2818.	3.2	49
5	Theory of the thermodynamic influence of solution-phase additives in shape-controlled nanocrystal synthesis. Nanoscale, 2017, 9, 15635-15642.	2.8	32
6	Growth Mechanism of Five-Fold Twinned Ag Nanowires from Multiscale Theory and Simulations. ACS Nano, 2019, 13, 4647-4656.	7.3	30
7	Assembly of Gold Nanowires on Gold Nanostripe Arrays: Simulation and Experiment. Journal of Physical Chemistry C, 2020, 124, 9559-9571.	1.5	22
8	Theoretical Perspectives on the Influence of Solution-Phase Additives in Shape-Controlled Nanocrystal Synthesis. Journal of Physical Chemistry C, 2018, 122, 18785-18794.	1.5	20
9	Solvent Effects on Molecular Adsorption on Ag Surfaces: Polyvinylpyrrolidone Oligomers. Journal of Physical Chemistry C, 2018, 122, 14566-14573.	1.5	20
10	Oriented attachment mechanism of triangular Ag nanoplates: a molecular dynamics study. Nanoscale Advances, 2020, 2, 2265-2270.	2.2	19
11	Solution-Phase Growth of Cu Nanowires with Aspect Ratios Greater Than 1000: Multiscale Theory. ACS Nano, 2021, 15, 18279-18288.	7.3	15
12	Development and initial applications of an e-ReaxFF description of Ag nanoclusters. Journal of Chemical Physics, 2020, 153, 104106.	1.2	14
13	Shapes and Shape Transformations of Solution-Phase Metal Particles in the Sub-nanometer to Nanometer Size Range: Progress and Challenges. Journal of Physical Chemistry C, 2021, 125, 3668-3679.	1.5	14
14	Surface science of shape-selective metal nanocrystal synthesis from first-principles: Growth of Cu nanowires and nanocubes. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2020, 38, .	0.9	13
15	Influence of Gravity on the Sliding Angle of Water Drops on Nanopillared Superhydrophobic Surfaces. Langmuir, 2020, 36, 9916-9925.	1.6	11
16	Understanding the Solution-Phase Growth of Cu and Ag Nanowires and Nanocubes from First Principles. Langmuir, 2021, 37, 4419-4431.	1.6	11
17	Synthesis of Citrate-Coated Penta-twinned Palladium Nanorods and Ultrathin Nanowires with a Tunable Aspect Ratio. ACS Applied Materials & Interfaces, 2020, 12, 49935-49944.	4.0	10
18	Adsorption of ethylenediamine on Cu surfaces: attributes of a successful capping molecule using first-principles calculations. Nanoscale, 2021, 13, 13529-13537.	2.8	5

#	Article	IF	Citations
19	The Influence of Iodide on the Solution-Phase Growth of Cu Microplates: A Multi-Scale Theoretical Analysis from First Principles. Faraday Discussions, 2022, , .	1.6	4
20	Adsorption of alkylamines on Cu surfaces: identifying ideal capping molecules using first-principles calculations. Nanoscale, 2021, 13, 18536-18545.	2.8	3
21	Self-Assembly of a Linear Alkylamine Bilayer around a Cu Nanocrystal: Molecular Dynamics. Journal of Physical Chemistry B, 2021, 125, 4178-4186.	1.2	2