

Kristen A Fichthorn

List of Publications by Year in descending order

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Version: 2024-02-01

21
papers

497
citations

759055

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all docs

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docs citations

21
times ranked

640
citing authors

#	ARTICLE	IF	CITATIONS
1	The Influence of Iodide on the Solution-Phase Growth of Cu Microplates: A Multi-Scale Theoretical Analysis from First Principles. <i>Faraday Discussions</i> , 2022, , .	1.6	4
2	Adsorption of ethylenediamine on Cu surfaces: attributes of a successful capping molecule using first-principles calculations. <i>Nanoscale</i> , 2021, 13, 13529-13537.	2.8	5
3	Shapes and Shape Transformations of Solution-Phase Metal Particles in the Sub-nanometer to Nanometer Size Range: Progress and Challenges. <i>Journal of Physical Chemistry C</i> , 2021, 125, 3668-3679.	1.5	14
4	Understanding the Solution-Phase Growth of Cu and Ag Nanowires and Nanocubes from First Principles. <i>Langmuir</i> , 2021, 37, 4419-4431.	1.6	11
5	Self-Assembly of a Linear Alkylamine Bilayer around a Cu Nanocrystal: Molecular Dynamics. <i>Journal of Physical Chemistry B</i> , 2021, 125, 4178-4186.	1.2	2
6	Adsorption of alkylamines on Cu surfaces: identifying ideal capping molecules using first-principles calculations. <i>Nanoscale</i> , 2021, 13, 18536-18545.	2.8	3
7	Solution-Phase Growth of Cu Nanowires with Aspect Ratios Greater Than 1000: Multiscale Theory. <i>ACS Nano</i> , 2021, 15, 18279-18288.	7.3	15
8	Oriented attachment mechanism of triangular Ag nanoplates: a molecular dynamics study. <i>Nanoscale Advances</i> , 2020, 2, 2265-2270.	2.2	19
9	Influence of Gravity on the Sliding Angle of Water Drops on Nanopillared Superhydrophobic Surfaces. <i>Langmuir</i> , 2020, 36, 9916-9925.	1.6	11
10	Synthesis of Citrate-Coated Penta-twinned Palladium Nanorods and Ultrathin Nanowires with a Tunable Aspect Ratio. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 49935-49944.	4.0	10
11	Development and initial applications of an e-ReaxFF description of Ag nanoclusters. <i>Journal of Chemical Physics</i> , 2020, 153, 104106.	1.2	14
12	Surface science of shape-selective metal nanocrystal synthesis from first-principles: Growth of Cu nanowires and nanocubes. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2020, 38, .	0.9	13
13	Assembly of Gold Nanowires on Gold Nanostripe Arrays: Simulation and Experiment. <i>Journal of Physical Chemistry C</i> , 2020, 124, 9559-9571.	1.5	22
14	Revisiting the Polyol Synthesis of Silver Nanostructures: Role of Chloride in Nanocube Formation. <i>ACS Nano</i> , 2019, 13, 1849-1860.	7.3	69
15	Growth Mechanism of Five-Fold Twinned Ag Nanowires from Multiscale Theory and Simulations. <i>ACS Nano</i> , 2019, 13, 4647-4656.	7.3	30
16	Theoretical Perspectives on the Influence of Solution-Phase Additives in Shape-Controlled Nanocrystal Synthesis. <i>Journal of Physical Chemistry C</i> , 2018, 122, 18785-18794.	1.5	20
17	Modulating the Growth Rate, Aspect Ratio, and Yield of Copper Nanowires with Alkylamines. <i>Chemistry of Materials</i> , 2018, 30, 2809-2818.	3.2	49
18	Single-Crystal Electrochemistry Reveals Why Metal Nanowires Grow. <i>Journal of the American Chemical Society</i> , 2018, 140, 14740-14746.	6.6	76

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19	Solvent Effects on Molecular Adsorption on Ag Surfaces: Polyvinylpyrrolidone Oligomers. <i>Journal of Physical Chemistry C</i> , 2018, 122, 14566-14573.	1.5	20
20	Dynamic Contact Angles and Mechanisms of Motion of Water Droplets Moving on Nanopillared Superhydrophobic Surfaces: A Molecular Dynamics Simulation Study. <i>Langmuir</i> , 2018, 34, 9917-9926.	1.6	58
21	Theory of the thermodynamic influence of solution-phase additives in shape-controlled nanocrystal synthesis. <i>Nanoscale</i> , 2017, 9, 15635-15642.	2.8	32