Justin C Ondry

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/1970741/publications.pdf

Version: 2024-02-01

22	497	758635 12	752256 20
papers	citations	h-index	g-index

24	24	24	852
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Gold Nanocrystal Etching as a Means of Probing the Dynamic Chemical Environment in Graphene Liquid Cell Electron Microscopy. Journal of the American Chemical Society, 2019, 141, 4428-4437.	6.6	65
2	Unraveling Kinetically-Driven Mechanisms of Gold Nanocrystal Shape Transformations Using Graphene Liquid Cell Electron Microscopy. Nano Letters, 2018, 18, 5731-5737.	4.5	64
3	AutoDetect-mNP: An Unsupervised Machine Learning Algorithm for Automated Analysis of Transmission Electron Microscope Images of Metal Nanoparticles. Jacs Au, 2021, 1, 316-327.	3.6	44
4	Dynamics and Removal Pathway of Edge Dislocations in Imperfectly Attached PbTe Nanocrystal Pairs: Toward Design Rules for Oriented Attachment. ACS Nano, 2018, 12, 3178-3189.	7.3	43
5	Direct Optical Lithography of CsPbX₃ Nanocrystals via Photoinduced Ligand Cleavage with Postpatterning Chemical Modification and Electronic Coupling. Nano Letters, 2021, 21, 7609-7616.	4.5	41
6	Resilient Pathways to Atomic Attachment of Quantum Dot Dimers and Artificial Solids from Faceted CdSe Quantum Dot Building Blocks. ACS Nano, 2019, 13, 12322-12344.	7.3	36
7	Using Graphene Liquid Cell Transmission Electron Microscopy to Study in Situ Nanocrystal Etching. Journal of Visualized Experiments, 2018, , .	0.2	30
8	Colloidal Synthesis Path to 2D Crystalline Quantum Dot Superlattices. ACS Nano, 2021, 15, 2251-2262.	7.3	30
9	Photoexcited Small Polaron Formation in Goethite (Î±-FeOOH) Nanorods Probed by Transient Extreme Ultraviolet Spectroscopy. Journal of Physical Chemistry Letters, 2018, 9, 4120-4124.	2.1	26
10	Single-Particle Studies Reveal a Nanoscale Mechanism for Elastic, Bright, and Repeatable ZnS:Mn Mechanoluminescence in a Low-Pressure Regime. ACS Nano, 2021, 15, 4115-4133.	7.3	25
11	Two-dimensional, conductive niobium and molybdenum metalâ€“organic frameworks. Chemical Science, 2020, 11, 6690-6700.	3.7	16
12	A Room-Temperature, Solution Phase Method for the Synthesis of Mesoporous Metal Chalcogenide Nanocrystal-Based Thin Films with Precisely Controlled Grain Sizes. Chemistry of Materials, 2016, 28, 6105-6117.	3.2	15
13	Translatable Research Group-Based Undergraduate Research Program for Lower-Division Students. Journal of Chemical Education, 2019, 96, 1881-1890.	1.1	14
14	Redox Mediated Control of Electrochemical Potential in Liquid Cell Electron Microscopy. Journal of the American Chemical Society, 2021, 143, 12082-12089.	6.6	13
15	Elucidating the Role of Halides and Iron during Radiolysis-Driven Oxidative Etching of Gold Nanocrystals Using Liquid Cell Transmission Electron Microscopy and Pulse Radiolysis. Journal of the American Chemical Society, 2021, 143, 11703-11713.	6.6	11
16	Application of Dislocation Theory to Minimize Defects in Artificial Solids Built with Nanocrystal Building Blocks. Accounts of Chemical Research, 2021, 54, 1419-1429.	7.6	8
17	Characterization of Carrier Cooling Bottleneck in Silicon Nanoparticles by Extreme Ultraviolet (XUV) Transient Absorption Spectroscopy. Journal of Physical Chemistry C, 2021, 125, 9319-9329.	1.5	6
18	Trade-offs between Translational and Orientational Order in 2D Superlattices of Polygonal Nanocrystals with Differing Edge Count. Nano Letters, 2022, 22, 389-395.	4.5	5

#	Article	IF	Citations
19	Research Group-Led Undergraduate Research Program: Analyzing and Improving a Versatile Springboard for First-Year Undergraduates. Journal of Chemical Education, 2022, 99, 799-809.	1.1	4
20	In Situ TEM Etching of Gold Nanocrystals: Elucidating the Shape Transformation Mechanisms and Chemistry of the Graphene Liquid Cell. Microscopy and Microanalysis, 2019, 25, 1412-1413.	0.2	1
21	Dynamics and Removal Pathway of Edge Dislocations in Imperfectly Attached Nanocrystal Pairs; Towards Design Rules for Oriented Attachment. Microscopy and Microanalysis, 2018, 24, 1656-1657.	0.2	0
22	Using Graphene Liquid Cell Electron Microscopy to Elucidate Nanocrystal Etching Mechanisms. Microscopy and Microanalysis, 2018, 24, 246-247.	0.2	0