

# Justin C Ondry

## List of Publications by Year in descending order

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Version: 2024-02-01

22  
papers

497  
citations

758635

12  
h-index

752256

20  
g-index

24  
all docs

24  
docs citations

24  
times ranked

852  
citing authors

#	ARTICLE	IF	CITATIONS
1	Trade-offs between Translational and Orientational Order in 2D Superlattices of Polygonal Nanocrystals with Differing Edge Count. <i>Nano Letters</i> , 2022, 22, 389-395.	4.5	5
2	Research Group-Led Undergraduate Research Program: Analyzing and Improving a Versatile Springboard for First-Year Undergraduates. <i>Journal of Chemical Education</i> , 2022, 99, 799-809.	1.1	4
3	Single-Particle Studies Reveal a Nanoscale Mechanism for Elastic, Bright, and Repeatable ZnS:Mn Mechanoluminescence in a Low-Pressure Regime. <i>ACS Nano</i> , 2021, 15, 4115-4133.	7.3	25
4	Application of Dislocation Theory to Minimize Defects in Artificial Solids Built with Nanocrystal Building Blocks. <i>Accounts of Chemical Research</i> , 2021, 54, 1419-1429.	7.6	8
5	AutoDetect-mNP: An Unsupervised Machine Learning Algorithm for Automated Analysis of Transmission Electron Microscope Images of Metal Nanoparticles. <i>Jacs Au</i> , 2021, 1, 316-327.	3.6	44
6	Characterization of Carrier Cooling Bottleneck in Silicon Nanoparticles by Extreme Ultraviolet (XUV) Transient Absorption Spectroscopy. <i>Journal of Physical Chemistry C</i> , 2021, 125, 9319-9329.	1.5	6
7	Elucidating the Role of Halides and Iron during Radiolysis-Driven Oxidative Etching of Gold Nanocrystals Using Liquid Cell Transmission Electron Microscopy and Pulse Radiolysis. <i>Journal of the American Chemical Society</i> , 2021, 143, 11703-11713.	6.6	11
8	Redox Mediated Control of Electrochemical Potential in Liquid Cell Electron Microscopy. <i>Journal of the American Chemical Society</i> , 2021, 143, 12082-12089.	6.6	13
9	Direct Optical Lithography of CsPbX <sub>3</sub> Nanocrystals via Photoinduced Ligand Cleavage with Postpatterning Chemical Modification and Electronic Coupling. <i>Nano Letters</i> , 2021, 21, 7609-7616.	4.5	41
10	Colloidal Synthesis Path to 2D Crystalline Quantum Dot Superlattices. <i>ACS Nano</i> , 2021, 15, 2251-2262.	7.3	30
11	Two-dimensional, conductive niobium and molybdenum metal-organic frameworks. <i>Chemical Science</i> , 2020, 11, 6690-6700.	3.7	16
12	In Situ TEM Etching of Gold Nanocrystals: Elucidating the Shape Transformation Mechanisms and Chemistry of the Graphene Liquid Cell. <i>Microscopy and Microanalysis</i> , 2019, 25, 1412-1413.	0.2	1
13	Resilient Pathways to Atomic Attachment of Quantum Dot Dimers and Artificial Solids from Faceted CdSe Quantum Dot Building Blocks. <i>ACS Nano</i> , 2019, 13, 12322-12344.	7.3	36
14	Translatable Research Group-Based Undergraduate Research Program for Lower-Division Students. <i>Journal of Chemical Education</i> , 2019, 96, 1881-1890.	1.1	14
15	Gold Nanocrystal Etching as a Means of Probing the Dynamic Chemical Environment in Graphene Liquid Cell Electron Microscopy. <i>Journal of the American Chemical Society</i> , 2019, 141, 4428-4437.	6.6	65
16	Dynamics and Removal Pathway of Edge Dislocations in Imperfectly Attached PbTe Nanocrystal Pairs: Toward Design Rules for Oriented Attachment. <i>ACS Nano</i> , 2018, 12, 3178-3189.	7.3	43
17	Dynamics and Removal Pathway of Edge Dislocations in Imperfectly Attached Nanocrystal Pairs; Towards Design Rules for Oriented Attachment. <i>Microscopy and Microanalysis</i> , 2018, 24, 1656-1657.	0.2	0
18	Using Graphene Liquid Cell Electron Microscopy to Elucidate Nanocrystal Etching Mechanisms. <i>Microscopy and Microanalysis</i> , 2018, 24, 246-247.	0.2	0

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19	Using Graphene Liquid Cell Transmission Electron Microscopy to Study <em>in Situ</em> Nanocrystal Etching. Journal of Visualized Experiments, 2018, , .	0.2	30
20	Photoexcited Small Polaron Formation in Goethite ( $\alpha$ -FeOOH) Nanorods Probed by Transient Extreme Ultraviolet Spectroscopy. Journal of Physical Chemistry Letters, 2018, 9, 4120-4124.	2.1	26
21	Unraveling Kinetically-Driven Mechanisms of Gold Nanocrystal Shape Transformations Using Graphene Liquid Cell Electron Microscopy. Nano Letters, 2018, 18, 5731-5737.	4.5	64
22	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