

Joseph D Christesen

List of Publications by Year in descending order

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papers

794
citations

471509

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docs citations

20
times ranked

1156
citing authors

#	ARTICLE	IF	CITATIONS
1	Ratcheting quasi-ballistic electrons in silicon geometric diodes at room temperature. <i>Science</i> , 2020, 368, 177-180.	12.6	22
2	Designing Morphology in Epitaxial Silicon Nanowires: The Role of Gold, Surface Chemistry, and Phosphorus Doping. <i>ACS Nano</i> , 2017, 11, 4453-4462.	14.6	46
3	Encoding Highly Nonequilibrium Boron Concentrations and Abrupt Morphology in p-Type/n-Type Silicon Nanowire Superlattices. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 37105-37111.	8.0	17
4	Probing Intrawire, Interwire, and Diameter-Dependent Variations in Silicon Nanowire Surface Trap Density with Pump-Probe Microscopy. <i>Nano Letters</i> , 2017, 17, 5956-5961.	9.1	17
5	Barrierless Switching between a Liquid and Superheated Solid Catalyst during Nanowire Growth. <i>Journal of Physical Chemistry Letters</i> , 2016, 7, 4236-4242.	4.6	7
6	Capillarity-Driven Welding of Semiconductor Nanowires for Crystalline and Electrically Ohmic Junctions. <i>Nano Letters</i> , 2016, 16, 5241-5246.	9.1	36
7	Chemically Engraving Semiconductor Nanowires: Using Three-Dimensional Nanoscale Morphology to Encode Functionality from the Bottom Up. <i>Journal of Physical Chemistry Letters</i> , 2016, 7, 685-692.	4.6	28
8	Understanding the vapor-liquid-solid mechanism of Si nanowire growth and doping to synthetically encode precise nanoscale morphology. <i>Journal of Materials Chemistry C</i> , 2016, 4, 3890-3897.	5.5	32
9	Visualization of Charge Carrier Motion in Semiconductor Nanowires with Ultrafast Pump-Probe Microscopy. <i>Springer Proceedings in Physics</i> , 2015, , 671-674.	0.2	0
10	Encoding Abrupt and Uniform Dopant Profiles in Vapor-Liquid-Solid Nanowires by Suppressing the Reservoir Effect of the Liquid Catalyst. <i>ACS Nano</i> , 2014, 8, 11790-11798.	14.6	46
11	Ultrafast Carrier Dynamics in Individual Silicon Nanowires: Characterization of Diameter-Dependent Carrier Lifetime and Surface Recombination with Pump-Probe Microscopy. <i>Journal of Physical Chemistry C</i> , 2014, 118, 8634-8640.	3.1	50
12	Waveguide Scattering Microscopy for Dark-Field Imaging and Spectroscopy of Photonic Nanostructures. <i>ACS Photonics</i> , 2014, 1, 725-731.	6.6	22
13	Identifying Crystallization- and Incorporation-Limited Regimes during Vapor-Liquid-Solid Growth of Si Nanowires. <i>ACS Nano</i> , 2014, 8, 6081-6088.	14.6	38
14	Imaging Charge Separation and Carrier Recombination in Nanowire p-i-n Junctions Using Ultrafast Microscopy. <i>Nano Letters</i> , 2014, 14, 3079-3087.	9.1	48
15	Ultrafast Carrier Dynamics of Silicon Nanowire Ensembles: The Impact of Geometrical Heterogeneity on Charge Carrier Lifetime. <i>Journal of Physical Chemistry C</i> , 2014, 118, 8626-8633.	3.1	18
16	Visualization of Charge Carrier Motion in Semiconductor Nanowires with Ultrafast Pump-Probe Microscopy. , 2014, , .		0
17	Synthetically Encoding 10 nm Morphology in Silicon Nanowires. <i>Nano Letters</i> , 2013, 13, 6281-6286.	9.1	87
18	Direct Imaging of Free Carrier and Trap Carrier Motion in Silicon Nanowires by Spatially-Separated Femtosecond Pump-Probe Microscopy. <i>Nano Letters</i> , 2013, 13, 1336-1340.	9.1	120

#	ARTICLE	IF	CITATIONS
19	Horizontal Silicon Nanowires with Radial p-n Junctions: A Platform for Unconventional Solar Cells. Journal of Physical Chemistry Letters, 2013, 4, 2002-2009.	4.6	41
20	Design Principles for Photovoltaic Devices Based on Si Nanowires with Axial or Radial p-n Junctions. Nano Letters, 2012, 12, 6024-6029.	9.1	119