

David J Hill

List of Publications by Year in descending order

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17
papers

479
citations

687363

13
h-index

888059

17
g-index

17
all docs

17
docs citations

17
times ranked

964
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	Semi-transparent, flexible, and electrically conductive silicon mesh by capillarity-driven welding of vapor-liquid-solid-grown nanowires over large areas. <i>Nano Research</i> , 2020, 13, 1465-1471.	10.4	4
3	Introduction to Laboratory Safety for Graduate Students: An Active-Learning Endeavor. <i>Journal of Chemical Education</i> , 2019, 96, 652-659.	2.3	22
4	Solvent-Engineered Stress in Nanoscale Materials. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 44183-44189.	8.0	1
5	Interplay of Surface Recombination and Diode Geometry for the Performance of Axial p-n Nanowire Solar Cells. <i>ACS Nano</i> , 2018, 12, 10554-10563.	14.6	15
6	Tuning Electroluminescence from a Plasmonic Cavity-Coupled Silicon Light Source. <i>Nano Letters</i> , 2018, 18, 7230-7237.	9.1	10
7	Mie-coupled bound guided states in nanowire geometric superlattices. <i>Nature Communications</i> , 2018, 9, 2781.	12.8	21
8	All-in-One Derivatized Tandem $\text{p-n-Si}/\text{SnO}_2/\text{TiO}_2$ Water Splitting Photoelectrochemical Cell. <i>Nano Letters</i> , 2017, 17, 2440-2446.	9.1	53
9	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
10	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
11	Mapping Free-Carriers in Multijunction Silicon Nanowires Using Infrared Near-Field Optical Microscopy. <i>Nano Letters</i> , 2017, 17, 6591-6597.	9.1	29
12	Self-Catalyzed Vapor-Liquid-Solid Growth of Lead Halide Nanowires and Conversion to Hybrid Perovskites. <i>Nano Letters</i> , 2017, 17, 7561-7568.	9.1	37
13	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
14	Capillarity-Driven Welding of Semiconductor Nanowires for Crystalline and Electrically Ohmic Junctions. <i>Nano Letters</i> , 2016, 16, 5241-5246.	9.1	36
15	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
16	Doubling Absorption in Nanowire Solar Cells with Dielectric Shell Optical Antennas. <i>Nano Letters</i> , 2015, 15, 753-758.	9.1	109
17	Waveguide Scattering Microscopy for Dark-Field Imaging and Spectroscopy of Photonic Nanostructures. <i>ACS Photonics</i> , 2014, 1, 725-731.	6.6	22