

Hadi Tavakoli Dastjerdi

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Ambient Stable and Efficient Monolithic Tandem Perovskite/PbS Quantum Dots Solar Cells via Surface Passivation and Light Management Strategies. <i>Advanced Functional Materials</i> , 2021, 31, 2010623.	7.8	44
2	Tuning Areal Density and Surface Passivation of ZnO Nanowire Array Enable Efficient PbS QDs Solar Cells with Enhanced Current Density. <i>Advanced Materials Interfaces</i> , 2020, 7, 1901551.	1.9	22
3	Cost-Effective and Semi-Transparent PbS Quantum Dot Solar Cells Using Copper Electrodes. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 818-825.	4.0	23
4	Interpretation of Resistance, Capacitance, Defect Density, and Activation Energy Levels in Single-Crystalline MAPbI ₃ . <i>Journal of Physical Chemistry C</i> , 2020, 124, 3496-3502.	1.5	33
5	Oxygen Plasma-Induced p-Type Doping Improves Performance and Stability of PbS Quantum Dot Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 26047-26052.	4.0	33
6	Luminescence down-shifting enables UV-stable and efficient ZnO nanowire-based PbS quantum dot solar cells with J_{SC} exceeding 33 mA cm ⁻² . <i>Sustainable Energy and Fuels</i> , 2019, 3, 3128-3134.	2.5	18
7	Charge Accumulation, Recombination, and Their Associated Time Scale in Efficient (GUA) _x (MA) _{1-x} PbI ₃ -Based Perovskite Solar Cells. <i>ACS Omega</i> , 2019, 4, 16840-16846.	1.6	25
8	Highly efficient and stable inverted perovskite solar cells using down-shifting quantum dots as a light management layer and moisture-assisted film growth. <i>Journal of Materials Chemistry A</i> , 2019, 7, 14753-14760.	5.2	67
9	Light Management in Organic Photovoltaics Processed in Ambient Conditions Using ZnO Nanowire and Antireflection Layer with Nanocone Array. <i>Small</i> , 2019, 15, e1900508.	5.2	31
10	Synergistic ligand exchange and UV curing of PbS quantum dots for effective surface passivation. <i>Nanoscale</i> , 2019, 11, 22832-22840.	2.8	8
11	Rolled-up SiO _x /SiN _x microtubes with an enhanced quality factor for sensitive solvent sensing. <i>Nanotechnology</i> , 2018, 29, 415501.	1.3	11
12	Three-fold Symmetric Doping Mechanism in GaAs Nanowires. <i>Nano Letters</i> , 2017, 17, 5875-5882.	4.5	29
13	Methods of Ga droplet consumption for improved GaAs nanowire solar cell efficiency. <i>Nanotechnology</i> , 2016, 27, 475403.	1.3	24
14	Aluminum nitride nanowire light emitting diodes: Breaking the fundamental bottleneck of deep ultraviolet light sources. <i>Scientific Reports</i> , 2015, 5, 8332.	1.6	177
15	An electrically injected rolled-up semiconductor tube laser. <i>Applied Physics Letters</i> , 2015, 106, .	1.5	30
16	Rolled-up semiconductor tube lasers and lasers based on two-dimensional atomic crystals. , 2015, , .		0
17	Thermally controlled coupling of a rolled-up microtube integrated with a waveguide on a silicon electronic-photonic integrated circuit. <i>Optics Letters</i> , 2014, 39, 2699.	1.7	11
18	Coherent emission from electrically-injected InP/InGaAsP rolled up quantum well microtubes. , 2014, , .		0

#	ARTICLE	IF	CITATIONS
19	Optically pumped rolled-up InAs/InGaAsP quantum dash lasers at room temperature. Semiconductor Science and Technology, 2013, 28, 094007.	1.0	13
20	Rolled-up 1.5 μm InAs quantum dot tube lasers and integrated nanophotonic circuits on Si. , 2013, , .		0
21	Characterization of azimuthal and longitudinal modes in rolled-up InGaAs/GaAs microtubes at telecom wavelengths. Optics Express, 2013, 21, 18909.	1.7	12
22	(Invited) Rolled-up 1.55 μm Semiconductor Quantum Dot Tube Lasers. ECS Transactions, 2012, 45, 113-118.	0.3	0