

Rachelle Ihly

List of Publications by Year in descending order

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Version: 2024-02-01

20
papers

2,439
citations

516710

16
h-index

794594

19
g-index

20
all docs

20
docs citations

20
times ranked

4014
citing authors

#	ARTICLE	IF	CITATIONS
1	Dependence of Carrier Mobility on Nanocrystal Size and Ligand Length in PbSe Nanocrystal Solids. Nano Letters, 2010, 10, 1960-1969.	9.1	645
2	Tailored semiconducting carbon nanotube networks with enhanced thermoelectric properties. Nature Energy, 2016, 1, .	39.5	270
3	Tunable room-temperature single-photon emission at telecom wavelengths from sp ³ defects in carbon nanotubes. Nature Photonics, 2017, 11, 577-582.	31.4	235
4	PbSe Quantum Dot Field-Effect Transistors with Air-Stable Electron Mobilities above 7 cm ² /V s. Nano Letters, 2013, 13, 1578-1587.	9.1	228
5	Large n- and p-type thermoelectric power factors from doped semiconducting single-walled carbon nanotube thin films. Energy and Environmental Science, 2017, 10, 2168-2179.	30.8	172
6	Isolation of >1 nm Diameter Single-Wall Carbon Nanotube Species Using Aqueous Two-Phase Extraction. ACS Nano, 2015, 9, 5377-5390.	14.6	137
7	The Photothermal Stability of PbS Quantum Dot Solids. ACS Nano, 2011, 5, 8175-8186.	14.6	130
8	Efficient charge extraction and slow recombination in organic-inorganic perovskites capped with semiconducting single-walled carbon nanotubes. Energy and Environmental Science, 2016, 9, 1439-1449.	30.8	126
9	Switchable photovoltaic windows enabled by reversible photothermal complex dissociation from methylammonium lead iodide. Nature Communications, 2017, 8, 1722.	12.8	107
10	Tuning the driving force for exciton dissociation in single-walled carbon nanotube heterojunctions. Nature Chemistry, 2016, 8, 603-609.	13.6	79
11	Low-Temperature Single Carbon Nanotube Spectroscopy of sp ³ Quantum Defects. ACS Nano, 2017, 11, 10785-10796.	14.6	79
12	Polymer-Free Carbon Nanotube Thermoelectrics with Improved Charge Carrier Transport and Power Factor. ACS Energy Letters, 2016, 1, 1212-1220.	17.4	76
13	Probing the Complete Folding Trajectory of a DNA Hairpin Using Dual Beam Fluorescence Fluctuation Spectroscopy. Journal of Physical Chemistry B, 2008, 112, 127-133.	2.6	49
14	Diameter-Dependent Optical Absorption and Excitation Energy Transfer from Encapsulated Dye Molecules toward Single-Walled Carbon Nanotubes. ACS Nano, 2018, 12, 6881-6894.	14.6	33
15	Efficiency of Charge-Transfer Doping in Organic Semiconductors Probed with Quantitative Microwave and Direct-Current Conductance. Journal of Physical Chemistry Letters, 2018, 9, 6864-6870.	4.6	30
16	Effect of nanotube coupling on exciton transport in polymer-free monochiral semiconducting carbon nanotube networks. Nanoscale, 2019, 11, 21196-21206.	5.6	17
17	Photoluminescence Imaging of Polyfluorene Surface Structures on Semiconducting Carbon Nanotubes: Implications for Thin Film Exciton Transport. ACS Nano, 2016, 10, 11449-11458.	14.6	11
18	Solution-phase <i>p</i> -type doping of highly enriched semiconducting single-walled carbon nanotubes for thermoelectric thin films. Applied Physics Letters, 2021, 119, .	3.3	9

#	ARTICLE	IF	CITATIONS
19	Optically Generated Free-Carrier Collection from an All Single-Walled Carbon Nanotube Active Layer. Journal of Physical Chemistry Letters, 2018, 9, 4841-4847.	4.6	6
20	Imaging interfacial layers and internal fields in nanocrystalline junctions. , 2014, , .		0