

Gregory F Pach

List of Publications by Year in descending order

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Version: 2024-02-01

22
papers

598
citations

933447

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839539

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all docs

22
docs citations

22
times ranked

1298
citing authors

#	ARTICLE	IF	CITATIONS
1	Mediating anion-cation interactions to improve aqueous flow battery electrolytes. <i>Applied Materials Today</i> , 2022, 28, 101512.	4.3	6
2	Suppressing Auger Recombination in Multiply Excited Colloidal Silicon Nanocrystals with Ligand-Induced Hole Traps. <i>Journal of Physical Chemistry C</i> , 2021, 125, 2565-2574.	3.1	7
3	Insights into the Dynamic Interfacial and Bulk Composition of Copper-Modified, Hydrogen-Alloyed, Palladium Nanocubes under Electrocatalytic Conditions. <i>Journal of Physical Chemistry C</i> , 2021, 125, 15487-15495.	3.1	1
4	Roll-To-Roll Friendly Solution-Processing of Ultrathin, Sintered CdTe Nanocrystal Photovoltaics. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 44165-44173.	8.0	5
5	Surface band bending and carrier dynamics in colloidal quantum dot solids. <i>Nanoscale</i> , 2021, 13, 17793-17806.	5.6	2
6	Modulating donor-acceptor transition energies in phosphorus-boron co-doped silicon nanocrystals via X- and L-type ligands. <i>Faraday Discussions</i> , 2020, 222, 201-216.	3.2	9
7	SiO ₂ Is Wasted Space in Single-Nanometer-Scale Silicon Nanoparticle-Based Composite Anodes for Li-Ion Electrochemical Energy Storage. <i>ACS Applied Energy Materials</i> , 2020, 3, 10993-11001.	5.1	11
8	CSl Antisolvent Adduct Formation in All-Inorganic Metal Halide Perovskites. <i>Advanced Energy Materials</i> , 2020, 10, 1903365.	19.5	55
9	Measurement of band offsets and shunt resistance in CdTe solar cells through temperature and intensity dependence of open circuit voltage and photoluminescence. <i>Solar Energy</i> , 2019, 189, 389-397.	6.1	9
10	Probing the Surface Structure of Semiconductor Nanoparticles by DNP SENS with Dielectric Support Materials. <i>Journal of the American Chemical Society</i> , 2019, 141, 15532-15546.	13.7	39
11	Tailoring the Surface of Silicon Nanoparticles for Enhanced Chemical and Electrochemical Stability for Li-Ion Batteries. <i>ACS Applied Energy Materials</i> , 2019, 2, 6176-6183.	5.1	17
12	Nonthermal Plasma-Synthesized Phosphorus-Boron co-Doped Si Nanocrystals: A New Approach to Nontoxic NIR-Emitters. <i>Chemistry of Materials</i> , 2019, 31, 4426-4435.	6.7	19
13	Size-Dependent Asymmetric Auger Interactions in Plasma-Produced n- and p-Type-Doped Silicon Nanocrystals. <i>Journal of Physical Chemistry C</i> , 2019, 123, 5782-5789.	3.1	9
14	Enhanced Multiple Exciton Generation in PbS CdS Janus-like Heterostructured Nanocrystals. <i>ACS Nano</i> , 2018, 12, 10084-10094.	14.6	56
15	Tandem Solar Cells from Solution-Processed CdTe and PbS Quantum Dots Using a ZnTe-ZnO Tunnel Junction. <i>Nano Letters</i> , 2017, 17, 1020-1027.	9.1	71
16	Multiple exciton generation for photoelectrochemical hydrogen evolution reactions with quantum yields exceeding 100%. <i>Nature Energy</i> , 2017, 2, .	39.5	172
17	Transparent Ohmic Contacts for Solution-Processed, Ultrathin CdTe Solar Cells. <i>ACS Energy Letters</i> , 2017, 2, 270-278.	17.4	32
18	Quantum Dot Solar Cell Fabrication Protocols. <i>Chemistry of Materials</i> , 2017, 29, 189-198.	6.7	77

#	ARTICLE	IF	CITATIONS
19	Printed module interconnects. , 2015, , .		0
20	Ternary SiGeSn alloy nanocrystals via nonthermal plasma synthesis. Journal Physics D: Applied Physics, 0, , .	2.8	1
21	Surface Chemistry Effects on Quantum Confinement in Group IV Nanocrystals. , 0, , .		0
22	Surface Chemistry Effects on Quantum Confinement in Group IV Nanocrystals. , 0, , .		0