

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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h-index

839539

18
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22
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22
times ranked

1298
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|------|-----------|
| 1 | Multiple exciton generation for photoelectrochemical hydrogen evolution reactions with quantum yields exceeding 100%. <i>Nature Energy</i> , 2017, 2, . | 39.5 | 172 |
| 2 | Quantum Dot Solar Cell Fabrication Protocols. <i>Chemistry of Materials</i> , 2017, 29, 189-198. | 6.7 | 77 |
| 3 | 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 |
| 4 | Enhanced Multiple Exciton Generation in PbS/CdS Janus-like Heterostructured Nanocrystals. <i>ACS Nano</i> , 2018, 12, 10084-10094. | 14.6 | 56 |
| 5 | Chloride Antisolvent Adduct Formation in All-Inorganic Metal Halide Perovskites. <i>Advanced Energy Materials</i> , 2020, 10, 1903365. | 19.5 | 55 |
| 6 | 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 |
| 7 | Transparent Ohmic Contacts for Solution-Processed, Ultrathin CdTe Solar Cells. <i>ACS Energy Letters</i> , 2017, 2, 270-278. | 17.4 | 32 |
| 8 | 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 |
| 9 | 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 |
| 10 | 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 |
| 11 | 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 |
| 12 | 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 |
| 13 | 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 |
| 14 | 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 |
| 15 | Mediating anion-cation interactions to improve aqueous flow battery electrolytes. <i>Applied Materials Today</i> , 2022, 28, 101512. | 4.3 | 6 |
| 16 | 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 |
| 17 | Surface band bending and carrier dynamics in colloidal quantum dot solids. <i>Nanoscale</i> , 2021, 13, 17793-17806. | 5.6 | 2 |
| 18 | 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 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 19 | Ternary SiGeSn alloy nanocrystals via nonthermal plasma synthesis. Journal Physics D: Applied Physics, 0, , . | 2.8 | 1 |
| 20 | Printed module interconnects. , 2015, , . | | 0 |
| 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 |