

# Henry J Snaith

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

443  
papers

115,548  
citations

142  
h-index

338  
g-index

498  
ext. papers

128,759  
ext. citations

15.5  
avg, IF

8.98  
L-index

| #   | Paper  | IF   | Citations |
|-----|--|------|-----------|
| 443 | A Theoretical Framework for Microscopic Surface and Interface Dipoles, Work Functions, and Valence Band Alignments in 2D and 3D Halide Perovskite Heterostructures. <i>ACS Energy Letters</i> , <b>2022</b> , 7, 349-357         | 20.1 | 7         |
| 442 | Utilizing Nonpolar Organic Solvents for the Deposition of Metal-Halide Perovskite Films and the Realization of Organic Semiconductor/Perovskite Composite Photovoltaics.. <i>ACS Energy Letters</i> , <b>2022</b> , 7, 1246-1254 | 20.1 | 1         |
| 441 | Insights into the charge carrier dynamics in perovskite/Si tandem solar cells using transient photocurrent spectroscopy. <i>Applied Physics Letters</i> , <b>2022</b> , 120, 173504  | 3.4  | 0         |
| 440 | Optoelectronic Properties of Mixed Iodide-Bromide Perovskites from First-Principles Computational Modeling and Experiment.. <i>Journal of Physical Chemistry Letters</i> , <b>2022</b> , 4184-4192                               | 6.4  | 2         |
| 439 | Scalable processing for realizing 21.7%-efficient all-perovskite tandem solar modules.. <i>Science</i> , <b>2022</b> , 376, 762-767  | 33.3 | 18        |
| 438 | Rapid sequestration of perovskite solar cell-derived lead in soil.. <i>Journal of Hazardous Materials</i> , <b>2022</b> , 436, 128995  | 12.8 | 3         |
| 437 | 2D Position-Sensitive Hybrid-Perovskite Detectors. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2021</b> , 13, 54527-54535   | 9.5  | 1         |
| 436 | Chemical Control of the Dimensionality of the Octahedral Network of Solar Absorbers from the CuI-AgI-BiI Phase Space by Synthesis of 3D CuAgBiI. <i>Inorganic Chemistry</i> , <b>2021</b> , 60, 18154-18167                      | 5.1  | 0         |
| 435 | Phase segregation in mixed-halide perovskites affects charge-carrier dynamics while preserving mobility. <i>Nature Communications</i> , <b>2021</b> , 12, 6955   | 17.4 | 16        |
| 434 | Chemical Interaction at the MoO/CHNHPbI <sub>2</sub> Interface. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2021</b> , 13, 17085-17092  | 9.5  | 4         |
| 433 | Ultrafast Excited-State Localization in CsAgBiBr Double Perovskite. <i>Journal of Physical Chemistry Letters</i> , <b>2021</b> , 12, 3352-3360   | 6.4  | 25        |
| 432 | Ligand-engineered bandgap stability in mixed-halide perovskite LEDs. <i>Nature</i> , <b>2021</b> , 591, 72-77  | 50.4 | 172       |
| 431 | Highly Absorbing Lead-Free Semiconductor CuAgBiI for Photovoltaic Applications from the Quaternary CuI-AgI-BiI Phase Space. <i>Journal of the American Chemical Society</i> , <b>2021</b> , 143, 3983-3992                       | 16.4 | 16        |
| 430 | Dynamic Effects and Hydrogen Bonding in Mixed-Halide Perovskite Solar Cell Absorbers. <i>Journal of Physical Chemistry Letters</i> , <b>2021</b> , 12, 3885-3890   | 6.4  | 4         |
| 429 | Adduct-based p-doping of organic semiconductors. <i>Nature Materials</i> , <b>2021</b> , 20, 1248-1254   | 27   | 18        |
| 428 | Charge-Carrier Mobility and Localization in Semiconducting CuAgBiI for Photovoltaic Applications. <i>ACS Energy Letters</i> , <b>2021</b> , 6, 1729-1739   | 20.1 | 14        |
| 427 | Balanced Charge Carrier Transport Mediated by Quantum Dot Film Post-organization for Light-Emitting Diode Applications. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2021</b> , 13, 26170-26179                            | 9.5  | 0         |

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| 426 | Dimethylammonium: An A-Site Cation for Modifying CsPbI <sub>3</sub> . <i>Solar Rrl</i> , <b>2021</b> , 5, 2000599   | 7.1  | 10 |
| 425 | Boosting the efficiency of quasi-2D perovskites light-emitting diodes by using encapsulation growth method. <i>Nano Energy</i> , <b>2021</b> , 80, 105511   | 17.1 | 30 |
| 424 | Device Performance of Emerging Photovoltaic Materials (Version 1). <i>Advanced Energy Materials</i> , <b>2021</b> , 11, 2002774   | 21.8 | 56 |
| 423 | Understanding Dark Current-Voltage Characteristics in Metal-Halide Perovskite Single Crystals. <i>Physical Review Applied</i> , <b>2021</b> , 15,   | 4.3  | 12 |
| 422 | A polymeric bis(di-p-anisylamino)fluorene hole-transport material for stable n-i-p perovskite solar cells. <i>New Journal of Chemistry</i> , <b>2021</b> , 45, 15017-15021  | 3.6  | 1  |
| 421 | Revealing Charge Carrier Mobility and Defect Densities in Metal Halide Perovskites via Space-Charge-Limited Current Measurements. <i>ACS Energy Letters</i> , <b>2021</b> , 6, 1087-1094  | 20.1 | 52 |
| 420 | Crystallographic, Optical, and Electronic Properties of the Cs <sub>2</sub> AgBi <sub>1-x</sub> In <sub>x</sub> Br <sub>6</sub> Double Perovskite: Understanding the Fundamental Photovoltaic Efficiency Challenges. <i>ACS Energy Letters</i> , <b>2021</b> , 6, 1073-1081 | 20.1 | 10 |
| 419 | Halide Segregation in Mixed-Halide Perovskites: Influence of A-Site Cations. <i>ACS Energy Letters</i> , <b>2021</b> , 6, 799-808   | 20.1 | 46 |
| 418 | Universal Current Losses in Perovskite Solar Cells Due to Mobile Ions. <i>Advanced Energy Materials</i> , <b>2021</b> , 11, 2101447   | 21.8 | 10 |
| 417 | The atomic-scale microstructure of metal halide perovskite elucidated via low-dose electron microscopy. <i>Microscopy and Microanalysis</i> , <b>2021</b> , 27, 966-968   | 0.5  |    |
| 416 | Revealing Ultrafast Charge-Carrier Thermalization in Tin-Iodide Perovskites through Novel Pump-Push-Probe Terahertz Spectroscopy. <i>ACS Photonics</i> , <b>2021</b> , 8, 2509-2518   | 6.3  | 5  |
| 415 | Identification of lead vacancy defects in lead halide perovskites. <i>Nature Communications</i> , <b>2021</b> , 12, 5566  | 17.4 | 9  |
| 414 | Benzocyclobutene polymer as an additive for a benzocyclobutene-fullerene: application in stable p-i-n perovskite solar cells. <i>Journal of Materials Chemistry A</i> , <b>2021</b> , 9, 9347-9353  | 13   | 2  |
| 413 | Tunable transition metal complexes as hole transport materials for stable perovskite solar cells. <i>Chemical Communications</i> , <b>2021</b> , 57, 2093-2096  | 5.8  | 2  |
| 412 | Self-Assembled Perovskite Nanoislands on CH <sub>3</sub> NH <sub>3</sub> PbI <sub>3</sub> Cuboid Single Crystals by Energetic Surface Engineering (Adv. Funct. Mater. 50/2021). <i>Advanced Functional Materials</i> , <b>2021</b> , 31, 2170371                            | 15.6 | 1  |
| 411 | Strong performance enhancement in lead-halide perovskite solar cells through rapid, atmospheric deposition of n-type buffer layer oxides. <i>Nano Energy</i> , <b>2020</b> , 75, 104946   | 17.1 | 15 |
| 410 | Revealing Factors Influencing the Operational Stability of Perovskite Light-Emitting Diodes. <i>ACS Nano</i> , <b>2020</b> , 14, 8855-8865  | 16.7 | 25 |
| 409 | Understanding the Performance-Limiting Factors of Cs <sub>2</sub> AgBiBr <sub>6</sub> Double-Perovskite Solar Cells. <i>ACS Energy Letters</i> , <b>2020</b> , 5, 2200-2207   | 20.1 | 84 |

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| 408 | CsPbBr <sub>3</sub> Nanocrystal Films: Deviations from Bulk Vibrational and Optoelectronic Properties. <i>Advanced Functional Materials</i> , <b>2020</b> , 30, 1909904  | 15.6 | 17  |
| 407 | A piperidinium salt stabilizes efficient metal-halide perovskite solar cells. <i>Science</i> , <b>2020</b> , 369, 96-102   | 33.3 | 231 |
| 406 | Vacancy-Ordered Double Perovskite CsTeI Thin Films for Optoelectronics. <i>Chemistry of Materials</i> , <b>2020</b> , 32, 6676-6684  | 9.6  | 26  |
| 405 | Thermal stability of CH <sub>3</sub> NH <sub>3</sub> PbI <sub>x</sub> Cl <sub>3-x</sub> versus [HC(NH <sub>2</sub> ) <sub>2</sub> ] <sub>0.83</sub> Cs <sub>0.17</sub> PbI <sub>2.7</sub> Br <sub>0.3</sub> perovskite films by X-ray photoelectron spectroscopy. <i>Applied Surface Science</i> , <b>2020</b> , 513, 145596 | 6.7  | 10  |
| 404 | Azetidinium as cation in lead mixed halide perovskite nanocrystals of optoelectronic quality. <i>AIP Advances</i> , <b>2020</b> , 10, 025001   | 1.5  |     |
| 403 | Isotype Heterojunction Solar Cells Using n-Type Sb <sub>2</sub> Se <sub>3</sub> Thin Films. <i>Chemistry of Materials</i> , <b>2020</b> , 32, 2621-2630  | 34   |     |
| 402 | CSl-Antisolvent Adduct Formation in All-Inorganic Metal Halide Perovskites. <i>Advanced Energy Materials</i> , <b>2020</b> , 10, 1903365   | 21.8 | 35  |
| 401 | Trap States, Electric Fields, and Phase Segregation in Mixed-Halide Perovskite Photovoltaic Devices. <i>Advanced Energy Materials</i> , <b>2020</b> , 10, 1903488  | 21.8 | 39  |
| 400 | Consensus statement for stability assessment and reporting for perovskite photovoltaics based on ISOS procedures. <i>Nature Energy</i> , <b>2020</b> , 5, 35-49  | 62.3 | 369 |
| 399 | Light soaking in metal halide perovskites studied via steady-state microwave conductivity. <i>Communications Physics</i> , <b>2020</b> , 3,  | 5.4  | 11  |
| 398 | Metal composition influences optoelectronic quality in mixed-metal lead in triiodide perovskite solar absorbers. <i>Energy and Environmental Science</i> , <b>2020</b> , 13, 1776-1787   | 35.4 | 50  |
| 397 | Direct Silicon Heterostructures With Methylammonium Lead Iodide Perovskite for Photovoltaic Applications. <i>IEEE Journal of Photovoltaics</i> , <b>2020</b> , 10, 945-951   | 3.7  | 3   |
| 396 | Maximizing the external radiative efficiency of hybrid perovskite solar cells. <i>Pure and Applied Chemistry</i> , <b>2020</b> , 92, 697-706   | 2.1  | 4   |
| 395 | A universal solution processed interfacial bilayer enabling ohmic contact in organic and hybrid optoelectronic devices. <i>Energy and Environmental Science</i> , <b>2020</b> , 13, 268-276  | 35.4 | 26  |
| 394 | Revealing the origin of voltage loss in mixed-halide perovskite solar cells. <i>Energy and Environmental Science</i> , <b>2020</b> , 13, 258-267   | 35.4 | 155 |
| 393 | Revealing the Stoichiometric Tolerance of Lead Trihalide Perovskite Thin Films. <i>Chemistry of Materials</i> , <b>2020</b> , 32, 114-120  | 9.6  | 4   |
| 392 | Elucidating the Role of a Tetrafluoroborate-Based Ionic Liquid at the n-Type Oxide/Perovskite Interface. <i>Advanced Energy Materials</i> , <b>2020</b> , 10, 1903231  | 21.8 | 50  |
| 391 | Toward Understanding Space-Charge Limited Current Measurements on Metal Halide Perovskites. <i>ACS Energy Letters</i> , <b>2020</b> , 5, 376-384   | 20.1 | 90  |

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| 390 | Thermally Stable Passivation toward High Efficiency Inverted Perovskite Solar Cells. <i>ACS Energy Letters</i> , <b>2020</b> , 5, 3336-3343   | 20.1 | 9  |
| 389 | Control over Crystal Size in Vapor Deposited Metal-Halide Perovskite Films. <i>ACS Energy Letters</i> , <b>2020</b> , 5, 710-717  | 20.1 | 42 |
| 388 | Competitive Nucleation Mechanism for CsPbBr Perovskite Nanoplatelet Growth. <i>Journal of Physical Chemistry Letters</i> , <b>2020</b> , 11, 6535-6543  | 6.4  | 20 |
| 387 | Spectral shifts upon halide segregation in perovskite nanocrystals observed via transient absorption spectroscopy. <i>MRS Advances</i> , <b>2020</b> , 5, 2613-2621                             | 0.7  |    |
| 386 | Time-Resolved Changes in Dielectric Constant of Metal Halide Perovskites under Illumination. <i>Journal of the American Chemical Society</i> , <b>2020</b> , 142, 19799-19803                   | 16.4 | 7  |
| 385 | Observation of Charge Generation via Photoinduced Stark Effect in Mixed-Cation Lead Bromide Perovskite Thin Films. <i>Journal of Physical Chemistry Letters</i> , <b>2020</b> , 11, 10081-10087 | 6.4  | 4  |
| 384 | A Phosphine Oxide Route to Formamidinium Lead Tribromide Nanoparticles. <i>Chemistry of Materials</i> , <b>2020</b> , 32, 7172-7180   | 9.6  | 6  |
| 383 | Atomic-scale microstructure of metal halide perovskite. <i>Science</i> , <b>2020</b> , 370,   | 33.3 | 86 |
| 382 | Photoinduced Vibrations Drive Ultrafast Structural Distortion in Lead Halide Perovskite. <i>Journal of the American Chemical Society</i> , <b>2020</b> , 142, 16569-16578                       | 16.4 | 11 |
| 381 | Impact of Tin Fluoride Additive on the Properties of Mixed Tin-Lead Iodide Perovskite Semiconductors. <i>Advanced Functional Materials</i> , <b>2020</b> , 30, 2005594                          | 15.6 | 26 |
| 380 | Charge-Carrier Trapping and Radiative Recombination in Metal Halide Perovskite Semiconductors. <i>Advanced Functional Materials</i> , <b>2020</b> , 30, 2004312                                 | 15.6 | 27 |
| 379 | A photo-crosslinkable bis-triarylamine side-chain polymer as a hole-transport material for stable perovskite solar cells. <i>Sustainable Energy and Fuels</i> , <b>2020</b> , 4, 190-198        | 5.8  | 15 |
| 378 | Charge-Carrier Trapping Dynamics in Bismuth-Doped Thin Films of MAPbBr Perovskite. <i>Journal of Physical Chemistry Letters</i> , <b>2020</b> , 11, 3681-3688                                   | 6.4  | 27 |
| 377 | Light Absorption and Recycling in Hybrid Metal Halide Perovskite Photovoltaic Devices. <i>Advanced Energy Materials</i> , <b>2020</b> , 10, 1903653   | 21.8 | 17 |
| 376 | Giant Fine Structure Splitting of the Bright Exciton in a Bulk MAPbBr Single Crystal. <i>Nano Letters</i> , <b>2019</b> , 19, 7054-7061   | 11.5 | 23 |
| 375 | Deciphering photocarrier dynamics for tuneable high-performance perovskite-organic semiconductor heterojunction phototransistors. <i>Nature Communications</i> , <b>2019</b> , 10, 4475         | 17.4 | 31 |
| 374 | Charge-Carrier Cooling and Polarization Memory Loss in Formamidinium Tin Triiodide. <i>Journal of Physical Chemistry Letters</i> , <b>2019</b> , 10, 6038-6047                                  | 6.4  | 12 |
| 373 | Elucidating the long-range charge carrier mobility in metal halide perovskite thin films. <i>Energy and Environmental Science</i> , <b>2019</b> , 12, 169-176                                   | 35.4 | 76 |

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| 372 | Low cost triazatruxene hole transporting material for >20% efficiency perovskite solar cells. <i>Journal of Materials Chemistry C</i> , <b>2019</b> , 7, 5235-5243  | 7.1  | 34  |
| 371 | Charge-Carrier Dynamics, Mobilities, and Diffusion Lengths of 2DBD Hybrid Butylammonium-Cesium-Formamidinium Lead Halide Perovskites. <i>Advanced Functional Materials</i> , <b>2019</b> , 29, 1902656  | 15.6 | 22  |
| 370 | Revealing the nature of photoluminescence emission in the metal-halide double perovskite Cs <sub>2</sub> AgBiBr <sub>6</sub> . <i>Journal of Materials Chemistry C</i> , <b>2019</b> , 7, 8350-8356   | 7.1  | 88  |
| 369 | High Responsivity and Response Speed Single-Layer Mixed-Cation Lead Mixed-Halide Perovskite Photodetectors Based on Nanogap Electrodes Manufactured on Large-Area Rigid and Flexible Substrates. <i>Advanced Functional Materials</i> , <b>2019</b> , 29, 1901371 | 15.6 | 22  |
| 368 | Inverted perovskite solar cells with air stable diketopyrrolopyrrole-based electron transport layer. <i>Solar Energy</i> , <b>2019</b> , 186, 9-16  | 6.8  | 2   |
| 367 | Evidence and implications for exciton dissociation in lead halide perovskites. <i>EPJ Web of Conferences</i> , <b>2019</b> , 205, 06018   | 0.3  |     |
| 366 | Long-Range Charge Extraction in Back-Contact Perovskite Architectures via Suppressed Recombination. <i>Joule</i> , <b>2019</b> , 3, 1301-1313   | 27.8 | 50  |
| 365 | Photovoltaic solar cell technologies: analysing the state of the art. <i>Nature Reviews Materials</i> , <b>2019</b> , 4, 269-285  | 73.3 | 430 |
| 364 | Oxide Analogs of Halide Perovskites and the New Semiconductor BaAgIO. <i>Journal of Physical Chemistry Letters</i> , <b>2019</b> , 10, 1722-1728  | 6.4  | 18  |
| 363 | Fabrication of Efficient and Stable CsPbI <sub>3</sub> Perovskite Solar Cells through Cation Exchange Process. <i>Advanced Energy Materials</i> , <b>2019</b> , 9, 1901685  | 21.8 | 67  |
| 362 | Interfacial charge-transfer doping of metal halide perovskites for high performance photovoltaics. <i>Energy and Environmental Science</i> , <b>2019</b> , 12, 3063-3073  | 35.4 | 77  |
| 361 | Microsecond Carrier Lifetimes, Controlled p-Doping, and Enhanced Air Stability in Low-Bandgap Metal Halide Perovskites. <i>ACS Energy Letters</i> , <b>2019</b> , 4, 2301-2307  | 20.1 | 35  |
| 360 | Impurity Tracking Enables Enhanced Control and Reproducibility of Hybrid Perovskite Vapor Deposition. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2019</b> , 11, 28851-28857   | 9.5  | 28  |
| 359 | Growth modes and quantum confinement in ultrathin vapour-deposited MAPbI <sub>3</sub> films. <i>Nanoscale</i> , <b>2019</b> , 11, 14276-14284   | 7.7  | 29  |
| 358 | Planar perovskite solar cells with long-term stability using ionic liquid additives. <i>Nature</i> , <b>2019</b> , 571, 245-250   | 50.4 | 697 |
| 357 | Overcoming Zinc Oxide Interface Instability with a Methylammonium-Free Perovskite for High-Performance Solar Cells. <i>Advanced Functional Materials</i> , <b>2019</b> , 29, 1900466  | 15.6 | 85  |
| 356 | Oxidative Passivation of Metal Halide Perovskites. <i>Joule</i> , <b>2019</b> , 3, 2716-2731  | 27.8 | 51  |
| 355 | Dual-Source Coevaporation of Low-Bandgap FA <sub>1-x</sub> Cs <sub>x</sub> Sn <sub>1-y</sub> Pb <sub>y</sub> I <sub>3</sub> Perovskites for Photovoltaics. <i>ACS Energy Letters</i> , <b>2019</b> , 4, 2748-2756   | 20.1 | 37  |

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|-----|--|------|-----|
| 354 | Enhancing the Charge Extraction and Stability of Perovskite Solar Cells Using Strontium Titanate (SrTiO <sub>3</sub> ) Electron Transport Layer. <i>ACS Applied Energy Materials</i> , <b>2019</b> , 2, 8090-8097                          | 6.1  | 26  |
| 353 | Infrared Light Management Using a Nanocrystalline Silicon Oxide Interlayer in Monolithic Perovskite/Silicon Heterojunction Tandem Solar Cells with Efficiency above 25%. <i>Advanced Energy Materials</i> , <b>2019</b> , 9, 1803241       | 21.8 | 161 |
| 352 | Bulk recrystallization for efficient mixed-cation mixed-halide perovskite solar cells. <i>Journal of Materials Chemistry A</i> , <b>2019</b> , 7, 25511-25520  | 13   | 19  |
| 351 | Solubilization of Carbon Nanotubes with Ethylene-Vinyl Acetate for Solution-Processed Conductive Films and Charge Extraction Layers in Perovskite Solar Cells. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2019</b> , 11, 1185-1191 | 9.5  | 18  |
| 350 | Structural and Optical Properties of Cs <sub>2</sub> AgBiBr <sub>6</sub> Double Perovskite. <i>ACS Energy Letters</i> , <b>2019</b> , 4, 299-305   | 20.1 | 78  |
| 349 | Facile Synthesis of Stable and Highly Luminescent Methylammonium Lead Halide Nanocrystals for Efficient Light Emitting Devices. <i>Journal of the American Chemical Society</i> , <b>2019</b> , 141, 1269-1279                             | 16.4 | 83  |
| 348 | Electronic Traps and Phase Segregation in Lead Mixed-Halide Perovskite. <i>ACS Energy Letters</i> , <b>2019</b> , 4, 75-84   | 20.1 | 134 |
| 347 | Spectral Response Measurements of Perovskite Solar Cells. <i>IEEE Journal of Photovoltaics</i> , <b>2019</b> , 9, 220-226  | 3.7  | 10  |
| 346 | Solution-Processed All-Perovskite Multi-junction Solar Cells. <i>Joule</i> , <b>2019</b> , 3, 387-401  | 27.8 | 109 |
| 345 | Present status and future prospects of perovskite photovoltaics. <i>Nature Materials</i> , <b>2018</b> , 17, 372-376   | 27   | 414 |
| 344 | Balancing Charge Carrier Transport in a Quantum Dot P-N Junction toward Hysteresis-Free High-Performance Solar Cells. <i>ACS Energy Letters</i> , <b>2018</b> , 3, 1036-1043   | 20.1 | 29  |
| 343 | Degradation Kinetics of Inverted Perovskite Solar Cells. <i>Scientific Reports</i> , <b>2018</b> , 8, 5977   | 4.9  | 39  |
| 342 | Nonspiro, Fluorene-Based, Amorphous Hole Transporting Materials for Efficient and Stable Perovskite Solar Cells. <i>Advanced Science</i> , <b>2018</b> , 5, 1700811  | 13.6 | 37  |
| 341 | Hybrid Perovskites: Prospects for Concentrator Solar Cells. <i>Advanced Science</i> , <b>2018</b> , 5, 1700792   | 13.6 | 54  |
| 340 | Evidence of Nitrogen Contribution to the Electronic Structure of the CH <sub>3</sub> NH <sub>3</sub> PbI <sub>3</sub> Perovskite. <i>Chemistry - A European Journal</i> , <b>2018</b> , 24, 3539-3544                                      | 4.8  | 16  |
| 339 | In situ simultaneous photovoltaic and structural evolution of perovskite solar cells during film formation. <i>Energy and Environmental Science</i> , <b>2018</b> , 11, 383-393  | 35.4 | 67  |
| 338 | Impact of Bi Heterovalent Doping in Organic-Inorganic Metal Halide Perovskite Crystals. <i>Journal of the American Chemical Society</i> , <b>2018</b> , 140, 574-577   | 16.4 | 135 |
| 337 | Direct Observation of Ultrafast Exciton Dissociation in Lead Iodide Perovskite by 2D Electronic Spectroscopy. <i>ACS Photonics</i> , <b>2018</b> , 5, 852-860  | 6.3  | 45  |

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| 336 | Spatially Resolved Insight into the Chemical and Electronic Structure of Solution-Processed Perovskites—Why to (Not) Worry about Pinholes. <i>Advanced Materials Interfaces</i> , <b>2018</b> , 5, 1701420                              | 4.6  | 8   |
| 335 | Surface modified fullerene electron transport layers for stable and reproducible flexible perovskite solar cells. <i>Nano Energy</i> , <b>2018</b> , 49, 324-332  | 17.1 | 36  |
| 334 | Highly Crystalline Methylammonium Lead Tribromide Perovskite Films for Efficient Photovoltaic Devices. <i>ACS Energy Letters</i> , <b>2018</b> , 3, 1233-1240   | 20.1 | 43  |
| 333 | Exciton-Dominated Core-Level Absorption Spectra of Hybrid Organic-Inorganic Lead Halide Perovskites. <i>Journal of Physical Chemistry Letters</i> , <b>2018</b> , 9, 1852-1858  | 6.4  | 16  |
| 332 | The effect of ionic composition on acoustic phonon speeds in hybrid perovskites from Brillouin spectroscopy and density functional theory. <i>Journal of Materials Chemistry C</i> , <b>2018</b> , 6, 3861-3868                         | 7.1  | 17  |
| 331 | Perovskite/Colloidal Quantum Dot Tandem Solar Cells: Theoretical Modeling and Monolithic Structure. <i>ACS Energy Letters</i> , <b>2018</b> , 3, 869-874  | 20.1 | 55  |
| 330 | Interplay of Structural and Optoelectronic Properties in Formamidinium Mixed Tin/Lead Triiodide Perovskites. <i>Advanced Functional Materials</i> , <b>2018</b> , 28, 1802803   | 15.6 | 45  |
| 329 | Cubic or Orthorhombic? Revealing the Crystal Structure of Metastable Black-Phase CsPbI <sub>3</sub> by Theory and Experiment. <i>ACS Energy Letters</i> , <b>2018</b> , 3, 1787-1794  | 20.1 | 292 |
| 328 | High irradiance performance of metal halide perovskites for concentrator photovoltaics. <i>Nature Energy</i> , <b>2018</b> , 3, 855-861   | 62.3 | 140 |
| 327 | Aligned and Graded Type-II Ruddlesden-Popper Perovskite Films for Efficient Solar Cells. <i>Advanced Energy Materials</i> , <b>2018</b> , 8, 1800185  | 21.8 | 184 |
| 326 | Layered Mixed Tin/Lead Hybrid Perovskite Solar Cells with High Stability. <i>ACS Energy Letters</i> , <b>2018</b> , 3, 2246-2251  | 20.1 | 39  |
| 325 | Meso-Superstructured Perovskite Solar Cells: Revealing the Role of the Mesoporous Layer. <i>Journal of Physical Chemistry C</i> , <b>2018</b> , 122, 21239-21247  | 3.8  | 20  |
| 324 | Modification of the fluorinated tin oxide/electron-transporting material interface by a strong reductant and its effect on perovskite solar cell efficiency. <i>Molecular Systems Design and Engineering</i> , <b>2018</b> , 3, 741-747 | 4.6  | 7   |
| 323 | Enabling reliability assessments of pre-commercial perovskite photovoltaics with lessons learned from industrial standards. <i>Nature Energy</i> , <b>2018</b> , 3, 459-465   | 62.3 | 94  |
| 322 | The Path to Perovskite on Silicon PV <b>2018</b> , 1, 1-8   |      | 13  |
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| 319 | Nanocrystalline silicon oxide interlayer in monolithic perovskite/silicon heterojunction tandem solar cells with total current density >39 mA/cm <sup>2</sup> <b>2018</b> ,   |      | 2   |



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| 310 | Atomic Layer Deposited Electron Transport Layers in Efficient Organometallic Halide Perovskite Devices. <i>MRS Advances</i> , <b>2018</b> , 3, 3075-3084   | 0.7  | 6   |
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| 307 | Carbazole-based enamine: Low-cost and efficient hole transporting material for perovskite solar cells. <i>Nano Energy</i> , <b>2017</b> , 32, 551-557  | 17.1 | 85  |
| 306 | CsInAgCl: A New Lead-Free Halide Double Perovskite with Direct Band Gap. <i>Journal of Physical Chemistry Letters</i> , <b>2017</b> , 8, 772-778   | 6.4  | 494 |
| 305 | Controlling Nucleation and Growth of Metal Halide Perovskite Thin Films for High-Efficiency Perovskite Solar Cells. <i>Small</i> , <b>2017</b> , 13, 1602808   | 11   | 29  |
| 304 | 23.6%-efficient monolithic perovskite/silicon tandem solar cells with improved stability. <i>Nature Energy</i> , <b>2017</b> , 2,  | 62.3 | 965 |
| 303 | Building integration of semitransparent perovskite-based solar cells: Energy performance and visual comfort assessment. <i>Applied Energy</i> , <b>2017</b> , 194, 94-107                                    | 10.7 | 59  |
| 302 | Dopant-Free Planar n-i-p Perovskite Solar Cells with Steady-State Efficiencies Exceeding 18%. <i>ACS Energy Letters</i> , <b>2017</b> , 2, 622-628   | 20.1 | 58  |
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| 300 | Room temperature atomic layer deposited Al <sub>2</sub> O <sub>3</sub> on CH <sub>3</sub> NH <sub>3</sub> PbI <sub>3</sub> characterized by synchrotron-based X-ray photoelectron spectroscopy. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>2017</b> , 411, 49-52 | 1.2  | 12  |
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| 297 | Solution-Processed Cesium Hexabromopalladate(IV), CsPdBr <sub>6</sub> , for Optoelectronic Applications. <i>Journal of the American Chemical Society</i> , <b>2017</b> , 139, 6030-6033   | 16.4 | 134 |
| 296 | V-Shaped Hole-Transporting TPD Dimers Containing Triphenylamine Base Core. <i>Journal of Physical Chemistry C</i> , <b>2017</b> , 121, 10267-10274  | 3.8  | 6   |
| 295 | Efficient and Air-Stable Mixed-Cation Lead Mixed-Halide Perovskite Solar Cells with n-Doped Organic Electron Extraction Layers. <i>Advanced Materials</i> , <b>2017</b> , 29, 1604186   | 24   | 211 |
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| 292 | Amorphous Hole-Transporting Material based on 2,2'-Bis-substituted 1,1'-Biphenyl Scaffold for Application in Perovskite Solar Cells. <i>Chemistry - an Asian Journal</i> , <b>2017</b> , 12, 958-962  | 4.5  | 16  |
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| 290 | Electron injection and scaffold effects in perovskite solar cells. <i>Journal of Materials Chemistry C</i> , <b>2017</b> , 5, 634-644   | 7.1  | 52  |
| 289 | ZrO <sub>2</sub> /TiO <sub>2</sub> Electron Collection Layer for Efficient Meso-Superstructured Hybrid Perovskite Solar Cells. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2017</b> , 9, 2342-2349   | 9.5  | 36  |
| 288 | Influence of Interface Morphology on Hysteresis in Vapor-Deposited Perovskite Solar Cells. <i>Advanced Electronic Materials</i> , <b>2017</b> , 3, 1600470  | 6.4  | 53  |
| 287 | Tailoring metal halide perovskites through metal substitution: influence on photovoltaic and material properties. <i>Energy and Environmental Science</i> , <b>2017</b> , 10, 236-246   | 35.4 | 185 |
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| 283 | Measurement and modelling of dark current decay transients in perovskite solar cells. <i>Journal of Materials Chemistry C</i> , <b>2017</b> , 5, 452-462  | 7.1  | 51  |

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| 281 | Tracking Photoexcited Carriers in Hybrid Perovskite Semiconductors: Trap-Dominated Spatial Heterogeneity and Diffusion. <i>ACS Nano</i> , <b>2017</b> , 11, 11488-11496  | 16.7 | 89  |
| 280 | The Potential of Multijunction Perovskite Solar Cells. <i>ACS Energy Letters</i> , <b>2017</b> , 2, 2506-2513  | 20.1 | 180 |
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| 275 | Monolithic Wide Band Gap Perovskite/Perovskite Tandem Solar Cells with Organic Recombination Layers. <i>Journal of Physical Chemistry C</i> , <b>2017</b> , 121, 27256-27262                                     | 3.8  | 35  |
| 274 | Consolidation of the optoelectronic properties of CHNHPbBr perovskite single crystals. <i>Nature Communications</i> , <b>2017</b> , 8, 590   | 17.4 | 164 |
| 273 | Metal Halide Perovskite Polycrystalline Films Exhibiting Properties of Single Crystals. <i>Joule</i> , <b>2017</b> , 1, 1552-1637  | 21.6 | 222 |
| 272 | Role of Microstructure in Oxygen Induced Photodegradation of Methylammonium Lead Triiodide Perovskite Films. <i>Advanced Energy Materials</i> , <b>2017</b> , 7, 1700977   | 21.8 | 132 |
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| 267 | Processing Solvent-Dependent Electronic and Structural Properties of Cesium Lead Triiodide Thin Films. <i>Journal of Physical Chemistry Letters</i> , <b>2017</b> , 8, 4172-4176                                 | 6.4  | 22  |
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| 256 | A two layer electrode structure for improved Li Ion diffusion and volumetric capacity in Li Ion batteries. <i>Nano Energy</i> , <b>2017</b> , 31, 377-385  | 17.1 | 40  |
| 255 | Band-Tail Recombination in Hybrid Lead Iodide Perovskite. <i>Advanced Functional Materials</i> , <b>2017</b> , 27, 1700860   | 36.0 | 94  |
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| 250 | Forthcoming perspectives of photoelectrochromic devices: a critical review. <i>Energy and Environmental Science</i> , <b>2016</b> , 9, 2682-2719   | 35.4 | 103 |
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| 245 | Electron-phonon coupling in hybrid lead halide perovskites. <i>Nature Communications</i> , <b>2016</b> , 7,  | 17.4 | 668 |
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| 222 | Nanoimprinted distributed feedback lasers of solution processed hybrid perovskites. <i>Optics Express</i> , <b>2016</b> , 24, 23677-23684   | 3.3  | 63   |
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| 206 | Enhanced charge carrier transport properties in colloidal quantum dot solar cells organic and inorganic hybrid surface passivation. <i>Journal of Materials Chemistry A</i> , <b>2016</b> , 4, 18769-18775        | 13   | 22   |
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| 199 | The Role of Hole Transport between Dyes in Solid-State Dye-Sensitized Solar Cells. <i>Journal of Physical Chemistry C</i> , <b>2015</b> , 119, 18975-18985  | 3.8  | 32   |
| 198 | Outshining Silicon. <i>Scientific American</i> , <b>2015</b> , 313, 54-59   | 0.5  | 20   |
| 197 | Enhanced Amplified Spontaneous Emission in Perovskites Using a Flexible Cholesteric Liquid Crystal Reflector. <i>Nano Letters</i> , <b>2015</b> , 15, 4935-41   | 11.5 | 97   |
| 196 | Direct measurement of the exciton binding energy and effective masses for charge carriers in organic-inorganic tri-halide perovskites. <i>Nature Physics</i> , <b>2015</b> , 11, 582-587                          | 16.2 | 1282 |
| 195 | Fast Charge-Carrier Trapping in TiO <sub>2</sub> Nanotubes. <i>Journal of Physical Chemistry C</i> , <b>2015</b> , 119, 9159-9168   | 3.8  | 42   |
| 194 | Solar cells. Impact of microstructure on local carrier lifetime in perovskite solar cells. <i>Science</i> , <b>2015</b> , 348, 683-6  | 33.3 | 1533 |
| 193 | Perovskite photovoltaic cells for building integration. <i>Energy and Environmental Science</i> , <b>2015</b> , 8, 1578-1584  | 35.4 | 102  |

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| 192 | Direct observation of an inhomogeneous chlorine distribution in CH <sub>3</sub> NH <sub>3</sub> PbI <sub>3-x</sub> Cl <sub>x</sub> layers: surface depletion and interface enrichment. <i>Energy and Environmental Science</i> , <b>2015</b> , 8, 1609-1615 | 35.4 | 92   |
| 191 | Efficient room temperature aqueous Sb <sub>2</sub> S <sub>3</sub> synthesis for inorganic-organic sensitized solar cells with 5.1% efficiencies. <i>Chemical Communications</i> , <b>2015</b> , 51, 8640-3  | 5.8  | 58   |
| 190 | Employing PEDOT as the p-Type Charge Collection Layer in Regular Organic-Inorganic Perovskite Solar Cells. <i>Journal of Physical Chemistry Letters</i> , <b>2015</b> , 6, 1666-73  | 6.4  | 81   |
| 189 | Highly efficient, flexible, indium-free perovskite solar cells employing metallic substrates. <i>Journal of Materials Chemistry A</i> , <b>2015</b> , 3, 9141-9145  | 13   | 119  |
| 188 | Charge selective contacts, mobile ions and anomalous hysteresis in organic-inorganic perovskite solar cells. <i>Materials Horizons</i> , <b>2015</b> , 2, 315-322   | 14.4 | 338  |
| 187 | Metal-halide perovskites for photovoltaic and light-emitting devices. <i>Nature Nanotechnology</i> , <b>2015</b> , 10, 391-402  | 28.7 | 2083 |
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| 185 | Dye monolayers used as the hole transporting medium in dye-sensitized solar cells. <i>Advanced Materials</i> , <b>2015</b> , 27, 5889-94  | 24   | 18   |
| 184 | Modeling Anomalous Hysteresis in Perovskite Solar Cells. <i>Journal of Physical Chemistry Letters</i> , <b>2015</b> , 6, 3808-14  | 6.4  | 487  |
| 183 | Quantum funneling in blended multi-band gap core/shell colloidal quantum dot solar cells. <i>Applied Physics Letters</i> , <b>2015</b> , 107, 103902  | 3.4  | 6    |
| 182 | Inorganic caesium lead iodide perovskite solar cells. <i>Journal of Materials Chemistry A</i> , <b>2015</b> , 3, 19688-19695  | 6.5  | 1085 |
| 181 | Enhanced optoelectronic quality of perovskite thin films with hypophosphorous acid for planar heterojunction solar cells. <i>Nature Communications</i> , <b>2015</b> , 6, 10030   | 17.4 | 492  |
| 180 | Modulating the Electron-Hole Interaction in a Hybrid Lead Halide Perovskite with an Electric Field. <i>Journal of the American Chemical Society</i> , <b>2015</b> , 137, 15451-9  | 16.4 | 51   |
| 179 | Optical properties and limiting photocurrent of thin-film perovskite solar cells. <i>Energy and Environmental Science</i> , <b>2015</b> , 8, 602-609  | 35.4 | 335  |
| 178 | Efficient, Semitransparent Neutral-Colored Solar Cells Based on Microstructured Formamidinium Lead Trihalide Perovskite. <i>Journal of Physical Chemistry Letters</i> , <b>2015</b> , 6, 129-38   | 6.4  | 153  |
| 177 | Hole-transport materials with greatly-differing redox potentials give efficient TiO <sub>2</sub> -[CH <sub>3</sub> NH <sub>3</sub> ][PbX <sub>3</sub> ] perovskite solar cells. <i>Physical Chemistry Chemical Physics</i> , <b>2015</b> , 17, 2335-8       | 3.6  | 52   |
| 176 | Optical Description of Mesoporous Organic-Inorganic Halide Perovskite Solar Cells. <i>Journal of Physical Chemistry Letters</i> , <b>2015</b> , 6, 48-53  | 6.4  | 51   |
| 175 | The real TiO <sub>2</sub> /HTM interface of solid-state dye solar cells: role of trapped states from a multiscale modelling perspective. <i>Nanoscale</i> , <b>2015</b> , 7, 1136-44  | 7.7  | 24   |



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| 174 | Methylammonium lead triiodide perovskite solar cells: A new paradigm in photovoltaics. <i>MRS Bulletin</i> , <b>2015</b> , 40, 641-645   | 3.2  | 34  |
| 173 | Charge-Carrier Dynamics and Mobilities in Formamidinium Lead Mixed-Halide Perovskites. <i>Advanced Materials</i> , <b>2015</b> , 27, 7938-44   | 24   | 276 |
| 172 | Temperature-Dependent Charge-Carrier Dynamics in CH <sub>3</sub> NH <sub>3</sub> PbI <sub>3</sub> Perovskite Thin Films. <i>Advanced Functional Materials</i> , <b>2015</b> , 25, 6218-6227                                | 15.6 | 645 |
| 171 | Local Versus Long-Range Diffusion Effects of Photoexcited States on Radiative Recombination in Organic-Inorganic Lead Halide Perovskites. <i>Advanced Science</i> , <b>2015</b> , 2, 1500136                               | 13.6 | 47  |
| 170 | Photoluminescence: Local Versus Long-Range Diffusion Effects of Photoexcited States on Radiative Recombination in Organic-Inorganic Lead Halide Perovskites (Adv. Sci. 9/2015). <i>Advanced Science</i> , <b>2015</b> , 2, | 13.6 | 3   |
| 169 | Plasmonic-Induced Photon Recycling in Metal Halide Perovskite Solar Cells. <i>Advanced Functional Materials</i> , <b>2015</b> , 25, 5038-5046  | 15.6 | 167 |
| 168 | Stability of Metal Halide Perovskite Solar Cells. <i>Advanced Energy Materials</i> , <b>2015</b> , 5, 1500963  | 21.8 | 861 |
| 167 | Organisch-anorganische Perowskit-Dünfilme für hocheffiziente Solarzellen. <i>Angewandte Chemie</i> , <b>2015</b> , 127, 3288-3297  | 3.6  | 25  |
| 166 | Mapping Electric Field-Induced Switchable Poling and Structural Degradation in Hybrid Lead Halide Perovskite Thin Films. <i>Advanced Energy Materials</i> , <b>2015</b> , 5, 1500962                                       | 21.8 | 179 |
| 165 | Non-ferroelectric nature of the conductance hysteresis in CH <sub>3</sub> NH <sub>3</sub> PbI <sub>3</sub> perovskite-based photovoltaic devices. <i>Applied Physics Letters</i> , <b>2015</b> , 106, 173502               | 3.4  | 173 |
| 164 | Phosphonic anchoring groups in organic dyes for solid-state solar cells. <i>Physical Chemistry Chemical Physics</i> , <b>2015</b> , 17, 18780-9  | 3.6  | 15  |
| 163 | C60 as an Efficient n-Type Compact Layer in Perovskite Solar Cells. <i>Journal of Physical Chemistry Letters</i> , <b>2015</b> , 6, 2399-405   | 6.4  | 271 |
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| 161 | Observation and Mediation of the Presence of Metallic Lead in Organic-Inorganic Perovskite Films. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2015</b> , 7, 13440-4   | 9.5  | 125 |
| 160 | Novel low cost hole transporting materials for efficient organic-inorganic perovskite solar cells <b>2015</b> ,  |      | 1   |
| 159 | Highly efficient perovskite solar cells with tunable structural color. <i>Nano Letters</i> , <b>2015</b> , 15, 1698-702  | 11.5 | 240 |
| 158 | Formation of thin films of organic-inorganic perovskites for high-efficiency solar cells. <i>Angewandte Chemie - International Edition</i> , <b>2015</b> , 54, 3240-8  | 16.4 | 214 |
| 157 | Crystallization kinetics of organic-inorganic trihalide perovskites and the role of the lead anion in crystal growth. <i>Journal of the American Chemical Society</i> , <b>2015</b> , 137, 2350-8                          | 16.4 | 266 |

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| 156 | Ultrasmooth organic-inorganic perovskite thin-film formation and crystallization for efficient planar heterojunction solar cells. <i>Nature Communications</i> , <b>2015</b> , 6, 6142  | 17.4 | 695  |
| 155 | Characterization of Planar Lead Halide Perovskite Solar Cells by Impedance Spectroscopy, Open-Circuit Photovoltage Decay, and Intensity-Modulated Photovoltage/Photocurrent Spectroscopy. <i>Journal of Physical Chemistry C</i> , <b>2015</b> , 119, 3456-3465 | 3.8  | 310  |
| 154 | Out shining silicon. <i>Scientific American</i> , <b>2015</b> , 313, 54-9   | 0.5  | 2    |
| 153 | Radiative efficiency of lead iodide based perovskite solar cells. <i>Scientific Reports</i> , <b>2014</b> , 4, 6071   | 4.9  | 224  |
| 152 | The Importance of Perovskite Pore Filling in Organometal Mixed Halide Sensitized TiO <sub>2</sub> -Based Solar Cells. <i>Journal of Physical Chemistry Letters</i> , <b>2014</b> , 5, 1096-102  | 6.4  | 200  |
| 151 | High charge carrier mobilities and lifetimes in organolead trihalide perovskites. <i>Advanced Materials</i> , <b>2014</b> , 26, 1584-9  | 24   | 2282 |
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| 149 | Towards Long-Term Photostability of Solid-State Dye Sensitized Solar Cells. <i>Advanced Energy Materials</i> , <b>2014</b> , 4, 1301667   | 21.8 | 47   |
| 148 | Supramolecular halogen bond passivation of organic-inorganic halide perovskite solar cells. <i>Nano Letters</i> , <b>2014</b> , 14, 3247-54   | 11.5 | 527  |
| 147 | Lead-free organic/inorganic tin halide perovskites for photovoltaic applications. <i>Energy and Environmental Science</i> , <b>2014</b> , 7, 3061-3068  | 35.4 | 1635 |
| 146 | Observation of Annealing-Induced Doping in TiO <sub>2</sub> Mesoporous Single Crystals for Use in Solid State Dye Sensitized Solar Cells. <i>Journal of Physical Chemistry C</i> , <b>2014</b> , 118, 1821-1827   | 3.8  | 19   |
| 145 | An Organic Donor-Free Dye with Enhanced Open-Circuit Voltage in Solid-State Sensitized Solar Cells. <i>Advanced Energy Materials</i> , <b>2014</b> , 4, 1400166   | 21.8 | 31   |
| 144 | Solution Deposition-Conversion for Planar Heterojunction Mixed Halide Perovskite Solar Cells. <i>Advanced Energy Materials</i> , <b>2014</b> , 4, 1400355   | 21.8 | 305  |
| 143 | Homogeneous Emission Line Broadening in the Organo Lead Halide Perovskite CH <sub>3</sub> NH <sub>3</sub> PbI <sub>3-x</sub> Cl <sub>x</sub> . <i>Journal of Physical Chemistry Letters</i> , <b>2014</b> , 5, 1300-6   | 6.4  | 286  |
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| 141 | The Raman Spectrum of the CH <sub>3</sub> NH <sub>3</sub> PbI <sub>3</sub> Hybrid Perovskite: Interplay of Theory and Experiment. <i>Journal of Physical Chemistry Letters</i> , <b>2014</b> , 5, 279-84  | 6.4  | 476  |
| 140 | Neutral color semitransparent microstructured perovskite solar cells. <i>ACS Nano</i> , <b>2014</b> , 8, 591-8  | 16.7 | 365  |
| 139 | Sub-150 °C processed meso-superstructured perovskite solar cells with enhanced efficiency. <i>Energy and Environmental Science</i> , <b>2014</b> , 7, 1142-1147   | 35.4 | 511  |

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| 137 | Influence of ionizing dopants on charge transport in organic semiconductors. <i>Physical Chemistry Chemical Physics</i> , <b>2014</b> , 16, 1132-8   | 3.6  | 47   |
| 136 | Multiscale simulation of solid state dye sensitized solar cells including morphology effects <b>2014</b> ,   |      | 1    |
| 135 | Enhanced Hole Extraction in Perovskite Solar Cells Through Carbon Nanotubes. <i>Journal of Physical Chemistry Letters</i> , <b>2014</b> , 5, 4207-12   | 6.4  | 126  |
| 134 | Heterojunction modification for highly efficient organic-inorganic perovskite solar cells. <i>ACS Nano</i> , <b>2014</b> , 8, 12701-9  | 16.7 | 546  |
| 133 | Quantitative electron tomography investigation of a TiO <sub>2</sub> based solar cell photoanode. <i>Journal of Physics: Conference Series</i> , <b>2014</b> , 522, 012063   | 0.3  | 1    |
| 132 | Recombination Kinetics in Organic-Inorganic Perovskites: Excitons, Free Charge, and Subgap States. <i>Physical Review Applied</i> , <b>2014</b> , 2,   | 4.3  | 874  |
| 131 | The Impact of the Crystallization Processes on the Structural and Optical Properties of Hybrid Perovskite Films for Photovoltaics. <i>Journal of Physical Chemistry Letters</i> , <b>2014</b> , 5, 3836-42           | 6.4  | 218  |
| 130 | Impact of Molecular Charge-Transfer States on Photocurrent Generation in Solid State Dye-Sensitized Solar Cells Employing Low-Band-Gap Dyes. <i>Journal of Physical Chemistry C</i> , <b>2014</b> , 118, 16825-16830 | 3.8  | 10   |
| 129 | A transparent conductive adhesive laminate electrode for high-efficiency organic-inorganic lead halide perovskite solar cells. <i>Advanced Materials</i> , <b>2014</b> , 26, 7499-504                                | 24   | 148  |
| 128 | Bright light-emitting diodes based on organometal halide perovskite. <i>Nature Nanotechnology</i> , <b>2014</b> , 9, 687-92  | 28.7 | 2958 |
| 127 | Preface: Special Topic on Perovskite Solar Cells. <i>APL Materials</i> , <b>2014</b> , 2, 081201   | 5.7  | 5    |
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| 124 | Hybrid Organic-Inorganic Photovoltaic Diodes: Photoaction at the Heterojunction and Charge Collection Through Mesostructured Composites <b>2014</b> , 767-800  |      |      |
| 123 | Enhanced photoluminescence and solar cell performance via Lewis base passivation of organic-inorganic lead halide perovskites. <i>ACS Nano</i> , <b>2014</b> , 8, 9815-21  | 16.7 | 1194 |
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| 121 | The emergence of perovskite solar cells. <i>Nature Photonics</i> , <b>2014</b> , 8, 506-514  | 33.9 | 4538 |

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| 120 | Lessons learned: from dye-sensitized solar cells to all-solid-state hybrid devices. <i>Advanced Materials</i> , <b>2014</b> , 26, 4013-30   | 24   | 133  |
| 119 | Charge-carrier dynamics in vapour-deposited films of the organolead halide perovskite CH <sub>3</sub> NH <sub>3</sub> PbI <sub>3</sub> Cl <sub>x</sub> . <i>Energy and Environmental Science</i> , <b>2014</b> , 7, 2269-2275 | 35.4 | 378  |
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| 113 | Anomalous Hysteresis in Perovskite Solar Cells. <i>Journal of Physical Chemistry Letters</i> , <b>2014</b> , 5, 1511-5  | 6.4  | 1951 |
| 112 | Influence of Shell Thickness and Surface Passivation on PbS/CdS Core/Shell Colloidal Quantum Dot Solar Cells. <i>Chemistry of Materials</i> , <b>2014</b> , 26, 4004-4013   | 9.6  | 115  |
| 111 | Electronic properties of meso-superstructured and planar organometal halide perovskite films: charge trapping, photodoping, and carrier mobility. <i>ACS Nano</i> , <b>2014</b> , 8, 7147-55                                  | 16.7 | 328  |
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| 104 | Excitons versus free charges in organo-lead tri-halide perovskites. <i>Nature Communications</i> , <b>2014</b> , 5, 3586  | 17.4 | 1231 |
| 103 | A one-step low temperature processing route for organolead halide perovskite solar cells. <i>Chemical Communications</i> , <b>2013</b> , 49, 7893-5   | 5.8  | 197  |

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| 87  | Critique of charge collection efficiencies calculated through small perturbation measurements of dye sensitized solar cells. <i>Journal of Applied Physics</i> , <b>2013</b> , 113, 063709  | 2.5  | 8    |
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| 80 | Large area hole transporter deposition in efficient solid-state dye-sensitized solar cell mini-modules. <i>Journal of Applied Physics</i> , <b>2013</b> , 114, 183105  | 2.5  | 6    |
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| 67 | Triblock-Terpolymer-Directed Self-Assembly of Mesoporous TiO <sub>2</sub> : High-Performance Photoanodes for Solid-State Dye-Sensitized Solar Cells. <i>Advanced Energy Materials</i> , <b>2012</b> , 2, 676-682 | 21.8 | 53   |

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| 57 | Self-assembly as a design tool for the integration of photonic structures into excitonic solar cells <b>2011</b> ,   |      | 3   |
| 56 | Electrochemical Replication of Self-Assembled Block Copolymer Nanostructures <b>2011</b> , 63-116  |      |     |
| 55 | SnO <sub>2</sub> -based dye-sensitized hybrid solar cells exhibiting near unity absorbed photon-to-electron conversion efficiency. <i>Nano Letters</i> , <b>2010</b> , 10, 1259-65   | 11.5 | 440 |
| 54 | Solid-state dye-sensitized solar cells based on ZnO nanocrystals. <i>Nanotechnology</i> , <b>2010</b> , 21, 205203   | 3.4  | 42  |
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