

Yi-Bing Cheng

List of Publications by Citations

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|--------------------|--------------------------|----------------|-----------------|
| 532 papers | 29,111 citations | 82 h-index | 151 g-index |
| 560 ext. papers | 32,507 ext. citations | 8.7 avg, IF | 7.32 L-index |

| # | Paper | IF | Citations |
|-----|---|------|-----------|
| 532 | A fast deposition-crystallization procedure for highly efficient lead iodide perovskite thin-film solar cells. <i>Angewandte Chemie - International Edition</i> , 2014 , 53, 9898-903 | 16.4 | 1104 |
| 531 | Mesoporous Anatase TiO ₂ Beads with High Surface Areas and Controllable Pore Sizes: A Superior Candidate for High-Performance Dye-Sensitized Solar Cells. <i>Advanced Materials</i> , 2009 , 21, 2206-2210 | 24 | 858 |
| 530 | Degradation observations of encapsulated planar CH ₃ NH ₃ PbI ₃ perovskite solar cells at high temperatures and humidity. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 8139-8147 | 13 | 739 |
| 529 | A Fast Deposition-Crystallization Procedure for Highly Efficient Lead Iodide Perovskite Thin-Film Solar Cells. <i>Angewandte Chemie</i> , 2014 , 126, 10056-10061 | 3.6 | 630 |
| 528 | Thin-film Sb ₂ Se ₃ photovoltaics with oriented one-dimensional ribbons and benign grain boundaries. <i>Nature Photonics</i> , 2015 , 9, 409-415 | 33.9 | 548 |
| 527 | Highly efficient photocathodes for dye-sensitized tandem solar cells. <i>Nature Materials</i> , 2010 , 9, 31-5 | 27 | 547 |
| 526 | Gas-assisted preparation of lead iodide perovskite films consisting of a monolayer of single crystalline grains for high efficiency planar solar cells. <i>Nano Energy</i> , 2014 , 10, 10-18 | 17.1 | 461 |
| 525 | Dye-sensitized solar cells employing a single film of mesoporous TiO ₂ beads achieve power conversion efficiencies over 10%. <i>ACS Nano</i> , 2010 , 4, 4420-5 | 16.7 | 394 |
| 524 | Universal passivation strategy to slot-die printed SnO for hysteresis-free efficient flexible perovskite solar module. <i>Nature Communications</i> , 2018 , 9, 4609 | 17.4 | 392 |
| 523 | Synthesis of monodisperse mesoporous titania beads with controllable diameter, high surface areas, and variable pore diameters (14-23 nm). <i>Journal of the American Chemical Society</i> , 2010 , 132, 4438-44 | 16.4 | 379 |
| 522 | Rubidium Multication Perovskite with Optimized Bandgap for Perovskite-Silicon Tandem with over 26% Efficiency. <i>Advanced Energy Materials</i> , 2017 , 7, 1700228 | 21.8 | 378 |
| 521 | Consensus statement for stability assessment and reporting for perovskite photovoltaics based on ISOS procedures. <i>Nature Energy</i> , 2020 , 5, 35-49 | 62.3 | 369 |
| 520 | Functionalization of perovskite thin films with moisture-tolerant molecules. <i>Nature Energy</i> , 2016 , 1, | 62.3 | 369 |
| 519 | Benefit of Grain Boundaries in Organic-Inorganic Halide Planar Perovskite Solar Cells. <i>Journal of Physical Chemistry Letters</i> , 2015 , 6, 875-80 | 6.4 | 367 |
| 518 | Dual-Function Scattering Layer of Submicrometer-Sized Mesoporous TiO ₂ Beads for High-Efficiency Dye-Sensitized Solar Cells. <i>Advanced Functional Materials</i> , 2010 , 20, 1301-1305 | 15.6 | 367 |
| 517 | Resistance of alkali-activated slag concrete to acid attack. <i>Cement and Concrete Research</i> , 2003 , 33, 1607-1611 | 10.9 | 351 |
| 516 | A novel quadruple-cation absorber for universal hysteresis elimination for high efficiency and stable perovskite solar cells. <i>Energy and Environmental Science</i> , 2017 , 10, 2509-2515 | 35.4 | 346 |

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| 515 | Alkali activation of Australian slag cements. <i>Cement and Concrete Research</i> , 1999 , 29, 113-120 | 10.3 | 277 |
| 514 | Ultra-thin high efficiency semitransparent perovskite solar cells. <i>Nano Energy</i> , 2015 , 13, 249-257 | 17.1 | 255 |
| 513 | Phase Segregation Enhanced Ion Movement in Efficient Inorganic CsPbI ₃ Br ₂ Solar Cells. <i>Advanced Energy Materials</i> , 2017 , 7, 1700946 | 21.8 | 253 |
| 512 | Hybrid interfacial layer leads to solid performance improvement of inverted perovskite solar cells. <i>Energy and Environmental Science</i> , 2015 , 8, 629-640 | 35.4 | 249 |
| 511 | Acoustic-optical phonon up-conversion and hot-phonon bottleneck in lead-halide perovskites. <i>Nature Communications</i> , 2017 , 8, 14120 | 17.4 | 245 |
| 510 | Sulfate attack on alkali-activated slag concrete. <i>Cement and Concrete Research</i> , 2002 , 32, 211-216 | 10.3 | 243 |
| 509 | Comparison of solution intercalation and melt intercalation of polymer/clay nanocomposites. <i>Polymer</i> , 2002 , 43, 4251-4260 | 3.9 | 239 |
| 508 | Highly Efficient Blue-Emitting Bi-Doped Cs ₂ SnCl ₆ Perovskite Variant: Photoluminescence Induced by Impurity Doping. <i>Advanced Functional Materials</i> , 2018 , 28, 1801131 | 15.6 | 239 |
| 507 | Flexible and Semitransparent Organolead Triiodide Perovskite Network Photodetector Arrays with High Stability. <i>Nano Letters</i> , 2015 , 15, 7963-9 | 11.5 | 237 |
| 506 | Solution-Processed Antimony Selenide Heterojunction Solar Cells. <i>Advanced Energy Materials</i> , 2014 , 4, 1301846 | 21.8 | 233 |
| 505 | High-performance top-gated monolayer SnS ₂ field-effect transistors and their integrated logic circuits. <i>Nanoscale</i> , 2013 , 5, 9666-70 | 7.7 | 226 |
| 504 | Copper(I) Iodide as Hole-Conductor in Planar Perovskite Solar Cells: Probing the Origin of J _{sc} Hysteresis. <i>Advanced Functional Materials</i> , 2015 , 25, 5650-5661 | 15.6 | 224 |
| 503 | Sequential Deposition of CH ₃ NH ₃ PbI ₃ on Planar NiO Film for Efficient Planar Perovskite Solar Cells. <i>ACS Photonics</i> , 2014 , 1, 547-553 | 6.3 | 214 |
| 502 | Hybrid Graphene/Perovskite Phototransistors with Ultrahigh Responsivity and Gain. <i>Advanced Optical Materials</i> , 2015 , 3, 1389-1396 | 8.1 | 213 |
| 501 | Effect of admixtures on properties of alkali-activated slag concrete. <i>Cement and Concrete Research</i> , 2000 , 30, 1367-1374 | 10.3 | 211 |
| 500 | Three-dimensional hierarchical GeSe ₂ nanostructures for high performance flexible all-solid-state supercapacitors. <i>Advanced Materials</i> , 2013 , 25, 1479-86 | 24 | 209 |
| 499 | Effect of elevated temperature curing on properties of alkali-activated slag concrete. <i>Cement and Concrete Research</i> , 1999 , 29, 1619-1625 | 10.3 | 204 |
| 498 | Layered Silicate Nanocomposites Based on Various High-Functionality Epoxy Resins: The Influence of Cure Temperature on Morphology, Mechanical Properties, and Free Volume. <i>Macromolecules</i> , 2003 , 36, 1616-1625 | 5.5 | 191 |

- 497 Encapsulation for improving the lifetime of flexible perovskite solar cells. *Nano Energy*, **2015**, 18, 118-125. 17.1 186
- 496 Fabrication of flexible dye sensitized solar cells on plastic substrates. *Nano Energy*, **2013**, 2, 174-189. 17.1 185
- 495 Understanding of perovskite crystal growth and film formation in scalable deposition processes. *Chemical Society Reviews*, **2020**, 49, 1653-1687. 58.5 184
- 494 CH₃NH₃PbI₃-based planar solar cells with magnetron-sputtered nickel oxide. *ACS Applied Materials & Interfaces*, **2014**, 6, 22862-70. 9.5 180
- 493 Synergic Interface Optimization with Green Solvent Engineering in Mixed Perovskite Solar Cells. *Advanced Energy Materials*, **2017**, 7, 1700576. 21.8 178
- 492 Resistance of alkali-activated slag concrete to carbonation. *Cement and Concrete Research*, **2001**, 31, 1277-1283. 10.3 173
- 491 A power pack based on organometallic perovskite solar cell and supercapacitor. *ACS Nano*, **2015**, 9, 17821-7. 16.7 167
- 490 Synthesis and Transfer of Large-Area Monolayer WS₂ Crystals: Moving Toward the Recyclable Use of Sapphire Substrates. *ACS Nano*, **2015**, 9, 6178-87. 16.7 163
- 489 Nickel oxide nanoparticles for efficient hole transport in p-i-n and n-i-p perovskite solar cells. *Journal of Materials Chemistry A*, **2017**, 5, 6597-6605. 13 159
- 488 Direct observation of intrinsic twin domains in tetragonal CH₃NH₃PbI₃. *Nature Communications*, **2017**, 8, 14547. 17.4 152
- 487 Growth, patterning and alignment of organolead iodide perovskite nanowires for optoelectronic devices. *Nanoscale*, **2015**, 7, 4163-70. 7.7 149
- 486 Dye-sensitized nickel(II)oxide photocathodes for tandem solar cell applications. *Nanotechnology*, **2008**, 19, 295304. 3.4 149
- 485 Hydrothermal synthesis of ultrasmall CuCrO₂ nanocrystal alternatives to NiO nanoparticles in efficient p-type dye-sensitized solar cells. *Journal of Materials Chemistry*, **2012**, 22, 24760. 145
- 484 Perovskite Tandem Solar Cells. *Advanced Energy Materials*, **2017**, 7, 1602761. 21.8 138
- 483 Insights into Planar CH₃NH₃PbI₃ Perovskite Solar Cells Using Impedance Spectroscopy. *Journal of Physical Chemistry C*, **2015**, 119, 4444-4453. 3.8 137
- 482 Defect trapping states and charge carrier recombination in organic-inorganic halide perovskites. *Journal of Materials Chemistry C*, **2016**, 4, 793-800. 7.1 136
- 481 Copper-Nickel Nitride Nanosheets as Efficient Bifunctional Catalysts for Hydrazine-Assisted Electrolytic Hydrogen Production. *Advanced Energy Materials*, **2019**, 9, 1900390. 21.8 128
- 480 Photonics and Optoelectronics of 2D Metal-Halide Perovskites. *Small*, **2018**, 14, e1800682. 11 128

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| 479 | Hierarchical silicon nanowires-carbon textiles matrix as a binder-free anode for high-performance advanced lithium-ion batteries. <i>Scientific Reports</i> , 2013 , 3, 1622 | 4.9 | 126 |
| 478 | p-Type mesoscopic NiO as an active interfacial layer for carbon counter electrode based perovskite solar cells. <i>Dalton Transactions</i> , 2015 , 44, 3967-73 | 4.3 | 125 |
| 477 | Amorphous hole-transporting layer in slot-die coated perovskite solar cells. <i>Nano Energy</i> , 2017 , 31, 210-217 | 4.1 | 121 |
| 476 | Recent progress in hybrid perovskite solar cells based on n-type materials. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 10092-10109 | 13 | 118 |
| 475 | Interfacial benzenethiol modification facilitates charge transfer and improves stability of cm-sized metal halide perovskite solar cells with up to 20% efficiency. <i>Energy and Environmental Science</i> , 2018 , 11, 1880-1889 | 35.4 | 114 |
| 474 | Lead halide-templated crystallization of methylamine-free perovskite for efficient photovoltaic modules. <i>Science</i> , 2021 , 372, 1327-1332 | 33.3 | 113 |
| 473 | Formation of TiB ₂ /TiC composites by reactive sintering. <i>Ceramics International</i> , 1999 , 25, 353-358 | 5.1 | 112 |
| 472 | Effect of organo-phosphorus and nano-clay materials on the thermal and fire performance of epoxy resins. <i>Journal of Applied Polymer Science</i> , 2004 , 91, 1233-1253 | 2.9 | 111 |
| 471 | Structural engineering using rubidium iodide as a dopant under excess lead iodide conditions for high efficiency and stable perovskites. <i>Nano Energy</i> , 2016 , 30, 330-340 | 17.1 | 106 |
| 470 | Eliminated hysteresis and stabilized power output over 20% in planar heterojunction perovskite solar cells by compositional and surface modifications to the low-temperature-processed TiO ₂ layer. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 9402-9411 | 13 | 101 |
| 469 | Enhanced open-circuit voltage of p-type DSC with highly crystalline NiO nanoparticles. <i>Chemical Communications</i> , 2011 , 47, 4808-10 | 5.8 | 100 |
| 468 | Thermal stability and flammability of silicone polymer composites. <i>Polymer Degradation and Stability</i> , 2006 , 91, 1373-1379 | 4.7 | 100 |
| 467 | Diammonium and Monoammonium Mixed-Organic-Cation Perovskites for High Performance Solar Cells with Improved Stability. <i>Advanced Energy Materials</i> , 2017 , 7, 1700444 | 21.8 | 98 |
| 466 | Self-Adhesive Macroporous Carbon Electrodes for Efficient and Stable Perovskite Solar Cells. <i>Advanced Functional Materials</i> , 2018 , 28, 1802985 | 15.6 | 98 |
| 465 | TiO ₂ sol-gel blocking layers for dye-sensitized solar cells. <i>Comptes Rendus Chimie</i> , 2006 , 9, 622-626 | 2.7 | 96 |
| 464 | 17% efficient printable mesoscopic PIN metal oxide framework perovskite solar cells using cesium-containing triple cation perovskite. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 22952-22958 | 13 | 95 |
| 463 | Role of Anion Vacancies in Nitrogen-Stabilized Zirconia. <i>Journal of the American Ceramic Society</i> , 1993 , 76, 683-688 | 3.8 | 95 |
| 462 | Improved photocurrents for p-type dye-sensitized solar cells using nano-structured nickel(II) oxide microballs. <i>Energy and Environmental Science</i> , 2012 , 5, 8896 | 35.4 | 94 |

- 461 Unraveling the Morphology of High Efficiency Polymer Solar Cells Based on the Donor Polymer PBDDTT-EFT. *Advanced Energy Materials*, **2015**, 5, 1401259 21.8 93
- 460 Low-Temperature TiO_x Compact Layer for Planar Heterojunction Perovskite Solar Cells. *ACS Applied Materials & Interfaces*, **2016**, 8, 11076-83 9.5 91
- 459 Thin Films of Dendritic Anatase Titania Nanowires Enable Effective Hole-Blocking and Efficient Light-Harvesting for High-Performance Mesoscopic Perovskite Solar Cells. *Advanced Functional Materials*, **2015**, 25, 3264-3272 15.6 88
- 458 Light Illumination Induced Photoluminescence Enhancement and Quenching in Lead Halide Perovskite. *Solar Rrl*, **2017**, 1, 1600001 7.1 88
- 457 Spiro-thiophene derivatives as hole-transport materials for perovskite solar cells. *Journal of Materials Chemistry A*, **2015**, 3, 12139-12144 13 87
- 456 Structural and Chemical Changes to CH₃NH₃PbI₃ Induced by Electron and Gallium Ion Beams. *Advanced Materials*, **2018**, 30, e1800629 24 87
- 455 [6,6]-Phenyl-C-Butyric Acid Methyl Ester/Cerium Oxide Bilayer Structure as Efficient and Stable Electron Transport Layer for Inverted Perovskite Solar Cells. *ACS Nano*, **2018**, 12, 2403-2414 16.7 86
- 454 Optical analysis of perovskite/silicon tandem solar cells. *Journal of Materials Chemistry C*, **2016**, 4, 5679-5689 86
- 453 Triggering the Passivation Effect of Potassium Doping in Mixed-Cation Mixed-Halide Perovskite by Light Illumination. *Advanced Energy Materials*, **2019**, 9, 1901016 21.8 84
- 452 Stability Comparison of Perovskite Solar Cells Based on Zinc Oxide and Titania on Polymer Substrates. *ChemSusChem*, **2016**, 9, 687-95 8.3 84
- 451 Remarkable photocurrent of p-type dye-sensitized solar cell achieved by size controlled CuGaO₂ nanoplates. *Journal of Materials Chemistry A*, **2014**, 2, 2968-2976 13 83
- 450 NiO nanosheets as efficient top hole transporters for carbon counter electrode based perovskite solar cells. *Journal of Materials Chemistry A*, **2015**, 3, 24121-24127 13 81
- 449 Effect of the Microstructure of the Functional Layers on the Efficiency of Perovskite Solar Cells. *Advanced Materials*, **2017**, 29, 1601715 24 80
- 448 Aqueous dye-sensitized solar cell electrolytes based on the cobalt(II)/(III) tris(bipyridine) redox couple. *Energy and Environmental Science*, **2013**, 6, 121-127 35.4 80
- 447 Low temperature processing of flexible planar perovskite solar cells with efficiency over 10%. *Journal of Power Sources*, **2015**, 278, 325-331 8.9 77
- 446 Low-Cost N,N'-Bicarbazole-Based Dopant-Free Hole-Transporting Materials for Large-Area Perovskite Solar Cells. *Advanced Energy Materials*, **2018**, 8, 1800538 21.8 77
- 445 Resistance of alkali-activated slag concrete to alkali-aggregate reaction. *Cement and Concrete Research*, **2001**, 31, 331-334 10.3 77
- 444 Enhancing the Optoelectronic Performance of Perovskite Solar Cells via a Textured CH₃NH₃PbI₃ Morphology. *Advanced Functional Materials*, **2016**, 26, 1278-1285 15.6 76

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| 443 | One-Pot Synthesis of Self-Stabilized Aqueous Nanoinks for Cu ₂ ZnSn(S,Se) ₄ Solar Cells. <i>Chemistry of Materials</i> , 2014 , 26, 3573-3578 | 9.6 | 72 |
| 442 | Dye-sensitized CuAlO ₂ photocathodes for tandem solar cell applications. <i>Journal of Photonics for Energy</i> , 2011 , 1, 011103 | 1.2 | 72 |
| 441 | Phase Relationships and Related Microstructural Observations in the Ca-Si-Al-O-N System. <i>Journal of the American Ceramic Society</i> , 2005 , 81, 1781-1788 | 3.8 | 72 |
| 440 | Low temperature chemically sintered nano-crystalline TiO ₂ electrodes for flexible dye-sensitized solar cells. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2010 , 213, 30-36 | 4.7 | 68 |
| 439 | Hydrothermal synthesis of bismuth oxide needles. <i>Materials Letters</i> , 2002 , 55, 46-49 | 3.3 | 68 |
| 438 | Low-Temperature Presynthesized Crystalline Tin Oxide for Efficient Flexible Perovskite Solar Cells and Modules. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 14922-14929 | 9.5 | 67 |
| 437 | 4-tert-Butylpyridine Free Hole Transport Materials for Efficient Perovskite Solar Cells: A New Strategy to Enhance the Environmental and Thermal Stability. <i>ACS Energy Letters</i> , 2018 , 3, 1677-1682 | 20.1 | 67 |
| 436 | Microstructural Development of Calcium alpha-SiAlON Ceramics with Elongated Grains. <i>Journal of the American Ceramic Society</i> , 2004 , 82, 421-428 | 3.8 | 67 |
| 435 | Anisotropic grain growth of Bi ₄ Ti ₃ O ₁₂ in molten salt fluxes. <i>Materials Research Bulletin</i> , 2003 , 38, 567-576 | 5.6 | 67 |
| 434 | Wavelength-tunable waveguides based on polycrystalline organic-inorganic perovskite microwires. <i>Nanoscale</i> , 2016 , 8, 6258-64 | 7.7 | 66 |
| 433 | Four-Terminal Tandem Solar Cells Using CH ₃ NH ₃ PbBr ₃ by Spectrum Splitting. <i>Journal of Physical Chemistry Letters</i> , 2015 , 6, 3931-4 | 6.4 | 65 |
| 432 | Planar versus mesoscopic perovskite microstructures: The influence of CH ₃ NH ₃ PbI ₃ morphology on charge transport and recombination dynamics. <i>Nano Energy</i> , 2016 , 22, 439-452 | 17.1 | 64 |
| 431 | Zinc porphyrins with a pyridine-ring-anchoring group for dye-sensitized solar cells. <i>Chemistry - an Asian Journal</i> , 2013 , 8, 956-62 | 4.5 | 64 |
| 430 | Inverted perovskite solar cells with high fill-factors featuring chemical bath deposited mesoporous NiO hole transporting layers. <i>Nano Energy</i> , 2018 , 49, 163-171 | 17.1 | 62 |
| 429 | Improved Photovoltages for p-Type Dye-Sensitized Solar Cells Using CuCrO ₂ Nanoparticles. <i>Journal of Physical Chemistry C</i> , 2014 , 118, 16375-16379 | 3.8 | 62 |
| 428 | Formation of anatase TiO ₂ by microwave processing. <i>Solar Energy Materials and Solar Cells</i> , 2004 , 84, 135-143 | 6.4 | 62 |
| 427 | Efficient mesoscopic perovskite solar cells based on the CH ₃ NH ₃ PbI ₂ Br light absorber. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 9116-9122 | 13 | 61 |
| 426 | Organic Sensitizers with Pyridine Ring Anchoring Group for p-Type Dye-Sensitized Solar Cells. <i>Journal of Physical Chemistry C</i> , 2014 , 118, 16433-16440 | 3.8 | 61 |

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| 425 | Pyrolysis behaviour of silicone-based ceramifying composites. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2006 , 425, 7-14 | 5.3 | 61 |
| 424 | Study on gelcasting and properties of recrystallized silicon carbide. <i>Ceramics International</i> , 2002 , 28, 369-376 | 5.1 | 61 |
| 423 | Microstructural Characterisations of Perovskite Solar Cells [From Grains to Interfaces: Techniques, Features, and Challenges. <i>Advanced Energy Materials</i> , 2017 , 7, 1700912 | 21.8 | 59 |
| 422 | Zn-doped TiO ₂ electrodes in dye-sensitized solar cells for enhanced photocurrent. <i>Journal of Materials Chemistry</i> , 2012 , 22, 17128 | | 59 |
| 421 | Formation of strong ceramified ash from silicone-based compositions. <i>Journal of Materials Science</i> , 2005 , 40, 5741-5749 | 4.3 | 59 |
| 420 | Aluminum-Containing Nitrogen Melilite Phases. <i>Journal of the American Ceramic Society</i> , 1994 , 77, 143-148 | 3.8 | 59 |
| 419 | Reversible Structural Swell-Shrink and Recoverable Optical Properties in Hybrid Inorganic-Organic Perovskite. <i>ACS Nano</i> , 2016 , 10, 7031-8 | 16.7 | 59 |
| 418 | On the Origin of Hysteresis in Perovskite Solar Cells. <i>Advanced Functional Materials</i> , 2016 , 26, 6807-6813 | 15.6 | 59 |
| 417 | Synthesis and characterization of CuAlO(2) and AgAlO(2) delafossite oxides through low-temperature hydrothermal methods. <i>Inorganic Chemistry</i> , 2014 , 53, 4106-16 | 5.1 | 58 |
| 416 | D π A structured porphyrins for efficient dye-sensitized solar cells. <i>Journal of Materials Chemistry A</i> , 2013 , 1, 10008 | 13 | 58 |
| 415 | Cold isostatic pressing technique for producing highly efficient flexible dye-sensitized solar cells on plastic substrates. <i>Progress in Photovoltaics: Research and Applications</i> , 2012 , 20, 321-332 | 6.8 | 58 |
| 414 | Enhanced performance of p-type dye-sensitized solar cells based on ultrasmall Mg-doped CuCrO ₂ nanocrystals. <i>ChemSusChem</i> , 2013 , 6, 1432-7 | 8.3 | 58 |
| 413 | Saturation ratio of poly(ethylene oxide) to silicate in melt intercalated nanocomposites. <i>European Polymer Journal</i> , 2003 , 39, 1917-1924 | 5.2 | 58 |
| 412 | Erosion of alumina ceramics by air- and water-suspended garnet particles. <i>Wear</i> , 2000 , 240, 40-51 | 3.5 | 58 |
| 411 | Print flexible solar cells. <i>Nature</i> , 2016 , 539, 488-489 | 50.4 | 58 |
| 410 | Thin Films of Tin Oxide Nanosheets Used as the Electron Transporting Layer for Improved Performance and Ambient Stability of Perovskite Photovoltaics. <i>Solar Rrl</i> , 2017 , 1, 1700117 | 7.1 | 57 |
| 409 | Photoluminescence and electroluminescence imaging of perovskite solar cells. <i>Progress in Photovoltaics: Research and Applications</i> , 2015 , 23, 1697-1705 | 6.8 | 57 |
| 408 | Synthesis and characterization of perylene-bithiophene- π -phenylamine triads: studies on the effect of alkyl-substitution in p-type NiO based photocathodes. <i>Journal of Materials Chemistry</i> , 2012 , 22, 7366 | | 57 |

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| 407 | A printable graphene enhanced composite counter electrode for flexible dye-sensitized solar cells. <i>Nano Energy</i> , 2013 , 2, 235-240 | 17.1 | 57 |
| 406 | Fabrication of textured bismuth titanate by templated grain growth using aqueous tape casting. <i>Journal of the European Ceramic Society</i> , 2003 , 23, 2163-2169 | 6 | 57 |
| 405 | Nitrogen-Containing Tetragonal Zirconia. <i>Journal of the American Ceramic Society</i> , 1991 , 74, 1135-1138 | 3.8 | 57 |
| 404 | Fatigue behavior of planar CH ₃ NH ₃ PbI ₃ perovskite solar cells revealed by light on/off diurnal cycling. <i>Nano Energy</i> , 2016 , 27, 509-514 | 17.1 | 57 |
| 403 | Low-cost porous Cu ₂ ZnSnSe ₄ film remarkably superior to noble Pt as counter electrode in quantum dot-sensitized solar cell system. <i>Journal of Power Sources</i> , 2013 , 226, 359-362 | 8.9 | 56 |
| 402 | Modification of mesoporous TiO ₂ electrodes by surface treatment with titanium(IV), indium(III) and zirconium(IV) oxide precursors: preparation, characterization and photovoltaic performance in dye-sensitized nanocrystalline solar cells. <i>Nanotechnology</i> , 2007 , 18, 125608 | 3.4 | 56 |
| 401 | Efficient and stable planar all-inorganic perovskite solar cells based on high-quality CsPbBr ₃ films with controllable morphology. <i>Journal of Energy Chemistry</i> , 2020 , 46, 8-15 | 12 | 56 |
| 400 | How reliable are efficiency measurements of perovskite solar cells? The first inter-comparison, between two accredited and eight non-accredited laboratories. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 22542-22558 | 13 | 55 |
| 399 | Fine tuning of fluorene-based dye structures for high-efficiency p-type dye-sensitized solar cells. <i>ACS Applied Materials & Interfaces</i> , 2014 , 6, 10614-22 | 9.5 | 55 |
| 398 | Sensitization of nickel oxide: improved carrier lifetime and charge collection by tuning nanoscale crystallinity. <i>Chemical Communications</i> , 2012 , 48, 9885-7 | 5.8 | 55 |
| 397 | Increased nanopore filling: Effect on monolithic all-solid-state dye-sensitized solar cells. <i>Applied Physics Letters</i> , 2007 , 90, 213510 | 3.4 | 55 |
| 396 | Development of polymer/ceramic composites for improved fire resistance. <i>Journal of Materials Processing Technology</i> , 2004 , 153-154, 401-407 | 5.3 | 55 |
| 395 | Light-induced reversal of ion segregation in mixed-halide perovskites. <i>Nature Materials</i> , 2021 , 20, 55-61 | 27 | 55 |
| 394 | Effects of dispersants and soluble counter-ions on aqueous dispersibility of nano-sized zirconia powder. <i>Ceramics International</i> , 2004 , 30, 219-224 | 5.1 | 54 |
| 393 | Controlling interfacial recombination in aqueous dye-sensitized solar cells by octadecyltrichlorosilane surface treatment. <i>Angewandte Chemie - International Edition</i> , 2014 , 53, 6933-7 | 16.4 | 53 |
| 392 | Silver Bismuth Sulfoiodide Solar Cells: Tuning Optoelectronic Properties by Sulfide Modification for Enhanced Photovoltaic Performance. <i>Advanced Energy Materials</i> , 2019 , 9, 1803396 | 21.8 | 52 |
| 391 | Highly efficient light harvesting ruthenium sensitizers for dye-sensitized solar cells featuring triphenylamine donor antennas. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 4945-4953 | 13 | 51 |
| 390 | Dipole-field-assisted charge extraction in metal-perovskite-metal back-contact solar cells. <i>Nature Communications</i> , 2017 , 8, 613 | 17.4 | 51 |

- 389 Probing Molecular and Crystalline Orientation in Solution-Processed Perovskite Solar Cells. *Advanced Functional Materials*, **2015**, 25, 5529-5536 15.6 51
- 388 A comparison of microwave and conventional heat treatments of nanocrystalline TiO₂. *Solar Energy Materials and Solar Cells*, **2007**, 91, 6-16 6.4 51
- 387 Spray deposition of water-soluble multiwall carbon nanotube and Cu₂ZnSnSe₄ nanoparticle composites as highly efficient counter electrodes in a quantum dot-sensitized solar cell system. *Nanoscale*, **2013**, 5, 6992-8 7.7 50
- 386 Thermal Stability of Calcium Bialon Ceramics. *Journal of the European Ceramic Society*, **1998**, 18, 417-427 6.8 50
- 385 Role of Pores in the Carbothermal Reduction of Carbon/Silica Nanocomposites into Silicon Carbide Nanostructures. *Journal of Physical Chemistry C*, **2007**, 111, 636-641 3.8 50
- 384 Preferential orientation of muscovite in ceramifiable silicone composites. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2005**, 398, 180-187 5.3 50
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