# Anders Hagfeldt

## List of Publications by Year
## in descending order

Source: https://exaly.com/author-pdf/825779/publications.pdf

Version: 2024-02-01

647
papers

114,199
citations

154
156
h-index

171
321
g-index

659
all docs

659
docs citations

659
times ranked

49227
citing authors

| # | ARTICLE | IF | CITATIONS |
|---|---|---|---|
| 1 | In Operando, Photovoltaic, and Microscopic Evaluation of Recombination Centers in Halide Perovskite-Based Solar Cells. ACS Applied Materials &amp; Interfaces, 2022, 14, 34171-34179. | 8.0 | 4 |
| 2 | Interfacial engineering from material to solvent: A mechanistic understanding on stabilizing <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si0001.svg"><mml:mi>Î±</mml:mi></mml:math>-formamidinium lead triiodide perovskite photovoltaics. Nano Energy, 2022, 94, 106924. | 16.0 | 13 |
| 3 | Perovskite Solar Cells with Carbonâ€Based Electrodes â€" Quantification of Losses and Strategies to Overcome Them. Advanced Energy Materials, 2022, 12, . | 19.5 | 29 |
| 4 | A universal co-solvent dilution strategy enables facile and cost-effective fabrication of perovskite photovoltaics. Nature Communications, 2022, 13, 89. | 12.8 | 77 |
| 5 | Conformal quantum dotâ€"SnO <sub>2</sub> layers as electron transporters for efficient perovskite solar cells. Science, 2022, 375, 302-306. | 12.6 | 872 |
| 6 | Probing photovoltaic performance in copper electrolyte dye-sensitized solar cells of variable TiO<sub>2</sub> particle size using comprehensive interfacial analysis. Journal of Materials Chemistry C, 2022, 10, 3929-3936. | 5.5 | 14 |
| 7 | Intermediate phase engineering of halide perovskites for photovoltaics. Joule, 2022, 6, 315-339. | 24.0 | 60 |
| 8 | Molecularly Engineered Low-Cost Organic Hole-Transporting Materials for Perovskite Solar Cells: The Substituent Effect on Non-fused Three-Dimensional Systems. ACS Applied Energy Materials, 2022, 5, 3156-3165. | 5.1 | 2 |
| 9 | Deconvolution of Lightâ€Induced Ion Migration Phenomena by Statistical Analysis of Cathodoluminescence in Lead Halideâ€Based Perovskites. Advanced Science, 2022, 9, e2103729. | 11.2 | 13 |
| 10 | Understanding Mass Transport in Copper Electrolyte-Based Dye-Sensitized Solar Cells. ACS Applied Energy Materials, 2022, 5, 2647-2654. | 5.1 | 10 |
| 11 | Critical Role of Removing Impurities in Nickel Oxide on Highâ€Efficiency and Longâ€Term Stability of Inverted Perovskite Solar Cells. Angewandte Chemie - International Edition, 2022, 61, . | 13.8 | 51 |
| 12 | Hysteresisâ€Free Planar Perovskite Solar Module with 19.1% Efficiency by Interfacial Defects Passivation. Solar Rrl, 2022, 6, . | 5.8 | 9 |
| 13 | Critical Role of Removing Impurities in Nickel Oxide on Highâ€Efficiency and Longâ€Term Stability of Inverted Perovskite Solar Cells. Angewandte Chemie, 2022, 134, . | 2.0 | 9 |
| 14 | Robust Selfâ€Assembled Molecular Passivation for Highâ€Performance Perovskite Solar Cells. Angewandte Chemie, 2022, 134, . | 2.0 | 8 |
| 15 | Robust Selfâ€Assembled Molecular Passivation for Highâ€Performance Perovskite Solar Cells. Angewandte Chemie - International Edition, 2022, 61, . | 13.8 | 32 |
| 16 | An open-access database and analysis tool for perovskite solar cells based on the FAIR data principles. Nature Energy, 2022, 7, 107-115. | 39.5 | 136 |
| 17 | Recent Progress of Critical Interface Engineering for Highly Efficient and Stable Perovskite Solar Cells. Advanced Energy Materials, 2022, 12, . | 19.5 | 78 |
| 18 | Inhibiting metal-inward diffusion-induced degradation through strong chemical coordination toward stable and efficient inverted perovskite solar cells. Energy and Environmental Science, 2022, 15, 2154-2163. | 30.8 | 30 |

| # | ARTICLE | IF | CITATIONS |
|---|---|---|---|
| 19 | Reevaluation of Photoluminescence Intensity as an Indicator of Efficiency in Perovskite Solar Cells. Solar Rrl, 2022, 6, . | 5.8 | 19 |
| 20 | Thiocyanate-Mediated Dimensionality Transformation of Low-Dimensional Perovskites for Photovoltaics. Chemistry of Materials, 2022, 34, 6331-6338. | 6.7 | 5 |
| 21 | Revealing the Perovskite Film Formation Using the Gas Quenching Method by In Situ GIWAXS: Morphology, Properties, and Device Performance. Advanced Functional Materials, 2021, 31, 2007473. | 14.9 | 40 |
| 22 | Emerging perovskite quantum dot solar cells: feasible approaches to boost performance. Energy and Environmental Science, 2021, 14, 224-261. | 30.8 | 94 |
| 23 | New approaches in component design for dye-sensitized solar cells. Sustainable Energy and Fuels, 2021, 5, 367-383. | 4.9 | 32 |
| 24 | Low-Cost Dopant Additive-Free Hole-Transporting Material for a Robust Perovskite Solar Cell with Efficiency Exceeding 21%. ACS Energy Letters, 2021, 6, 208-215. | 17.4 | 67 |
| 25 | An experimental and theoretical exploration of the role of tri-element metal-nonmetal nanohybrids in photovoltaics. Chemical Engineering Journal, 2021, 413, 127491. | 12.7 | 12 |
| 26 | Toward highly efficient and stable Sn<sup>2+</sup> and mixed Pb<sup>2+</sup>/Sn<sup>2+</sup> based halide perovskite solar cells through device engineering. Energy and Environmental Science, 2021, 14, 3256-3300. | 30.8 | 49 |
| 27 | Rapid hybrid perovskite film crystallization from solution. Chemical Society Reviews, 2021, 50, 7108-7131. | 38.1 | 77 |
| 28 | Advanced research trends in dye-sensitized solar cells. Journal of Materials Chemistry A, 2021, 9, 10527-10545. | 10.3 | 205 |
| 29 | When photoluminescence, electroluminescence, and open-circuit voltage diverge â€“ light soaking and halide segregation in perovskite solar cells. Journal of Materials Chemistry A, 2021, 9, 13967-13978. | 10.3 | 8 |
| 30 | Modulation of perovskite crystallization processes towards highly efficient and stable perovskite solar cells with MXene quantum dot-modified SnO<sub>2</sub>. Energy and Environmental Science, 2021, 14, 3447-3454. | 30.8 | 115 |
| 31 | Synergistic Effect of Fluorinated Passivator and Hole Transport Dopant Enables Stable Perovskite Solar Cells with an Efficiency Near 24%. Journal of the American Chemical Society, 2021, 143, 3231-3237. | 13.7 | 152 |
| 32 | Formation and Stabilization of Inorganic Halide Perovskites for Photovoltaics. Matter, 2021, 4, 528-551. | 10.0 | 28 |
| 33 | Flash Infrared Annealing for Perovskite Solar Cell Processing. Journal of Visualized Experiments, 2021, , . | 0.3 | 4 |
| 34 | The Rise of Dyeâ€Sensitized Solar Cells: From Molecular Photovoltaics to Emerging Solidâ€State Photovoltaic Technologies. Helvetica Chimica Acta, 2021, 104, e2000230. | 1.6 | 18 |
| 35 | Organic Ammonium Halide Modulators as Effective Strategy for Enhanced Perovskite Photovoltaic Performance. Advanced Science, 2021, 8, 2004593. | 11.2 | 57 |
| 36 | Xanthanâ€Based Hydrogel for Stable and Efficient Quasiâ€Solid Truly Aqueous Dyeâ€Sensitized Solar Cell with Cobalt Mediator. Solar Rrl, 2021, 5, 2000823. | 5.8 | 65 |

| # | ARTICLE | IF | CITATIONS |
|---|---|---|---|
| 37 | Formation of Highâ€Performance Multiâ€Cation Halide Perovskites Photovoltaics by Î´â€CsPbI<sub>3</sub>/Î´â€RbPbI<sub>3</sub> Seedâ€Assisted Heterogeneous Nucleation. Advanced Energy Materials, 2021, 11, 2003785. | 19.5 | 32 |
| 38 | Chemically tailored molecular surface modifiers for efficient and stable perovskite photovoltaics. SmartMat, 2021, 2, 33-37. | 10.7 | 47 |
| 39 | Stable Layered 2D Perovskite Solar Cells with an Efficiency of over 19% via Multifunctional Interfacial Engineering. Journal of the American Chemical Society, 2021, 143, 3911-3917. | 13.7 | 114 |
| 40 | A molecular photosensitizer achieves a Voc of 1.24â€‰V enabling highly efficient and stable dye-sensitized solar cells with copper(II/I)-based electrolyte. Nature Communications, 2021, 12, 1777. | 12.8 | 196 |
| 41 | Pseudo-halide anion engineering for Î±-FAPbI3 perovskite solar cells. Nature, 2021, 592, 381-385. | 27.8 | 2,095 |
| 42 | A combined molecular dynamics and experimental study of two-step process enabling low-temperature formation of phase-pure Î±-FAPbI <sub>3</sub>. Science Advances, 2021, 7, . | 10.3 | 49 |
| 43 | Interfacial <i>versus</i> Bulk Properties of Hole-Transporting Materials for Perovskite Solar Cells: Isomeric Triphenylamine-Based Enamines <i>versus</i> Spiro-OMeTAD. ACS Applied Materials &amp; Interfaces, 2021, 13, 21320-21330. | 8.0 | 8 |
| 44 | Benzylammoniumâ€Mediated Formamidinium Lead Iodide Perovskite Phase Stabilization for Photovoltaics. Advanced Functional Materials, 2021, 31, 2101163. | 14.9 | 28 |
| 45 | Decoupling the effects of defects on efficiency and stability through phosphonates in stable halide perovskite solar cells. Joule, 2021, 5, 1246-1266. | 24.0 | 91 |
| 46 | Water Stable Haloplumbate Modulation for Efficient and Stable Hybrid Perovskite Photovoltaics. Advanced Energy Materials, 2021, 11, 2101082. | 19.5 | 21 |
| 47 | Microbial bioelectrochemical cells for hydrogen generation based on irradiated semiconductor photoelectrodes. JPhys Energy, 2021, 3, 032012. | 5.3 | 1 |
| 48 | Surface Reconstruction Engineering with Synergistic Effect of Mixedâ€Salt Passivation Treatment toward Efficient and Stable Perovskite Solar Cells. Advanced Functional Materials, 2021, 31, 2102902. | 14.9 | 57 |
| 49 | Hydrophobic Organic Ammonium Halide Modification toward Highly Efficient and Stable CsPbI<sub>2.25</sub>Br<sub>0.75</sub> Solar Cell. Solar Rrl, 2021, 5, 2100178. | 5.8 | 8 |
| 50 | Copolymerâ€Templated Nickel Oxide for Highâ€Efficiency Mesoscopic Perovskite Solar Cells in Inverted Architecture. Advanced Functional Materials, 2021, 31, 2102237. | 14.9 | 51 |
| 51 | Multimodal hostâ€“guest complexation for efficient and stable perovskite photovoltaics. Nature Communications, 2021, 12, 3383. | 12.8 | 72 |
| 52 | Photoelectrochemical Waterâ€Splitting Using CuOâ€Based Electrodes for Hydrogen Production: A Review. Advanced Materials, 2021, 33, e2007285. | 21.0 | 127 |
| 53 | Perovskitoidâ€Templated Formation of a 1D@3D Perovskite Structure toward Highly Efficient and Stable Perovskite Solar Cells. Advanced Energy Materials, 2021, 11, 2101018. | 19.5 | 85 |
| 54 | Xanthanâ€Based Hydrogel for Stable and Efficient Quasiâ€Solid Truly Aqueous Dyeâ€Sensitized Solar Cell with Cobalt Mediator. Solar Rrl, 2021, 5, 2170074. | 5.8 | 16 |

| # | Article | IF | Citations |
|---|---|---|---|
| 55 | Passivation Strategies through Surface Reconstruction toward Highly Efficient and Stable Perovskite Solar Cells on n-i-p Architecture. Energies, 2021, 14, 4836. | 3.1 | 13 |
| 56 | Methylammonium Triiodide for Defect Engineering of High-Efficiency Perovskite Solar Cells. ACS Energy Letters, 2021, 6, 3650-3660. | 17.4 | 28 |
| 57 | Dye-sensitized solar cells strike back. Chemical Society Reviews, 2021, 50, 12450-12550. | 38.1 | 240 |
| 58 | Supramolecular Co-adsorption on TiO<sub>2</sub> to enhance the efficiency of dye-sensitized solar cells. Journal of Materials Chemistry A, 2021, 9, 13697-13703. | 10.3 | 5 |
| 59 | Nanoscale Phase Segregation in Supramolecular Ï€-Templating for Hybrid Perovskite Photovoltaics from NMR Crystallography. Journal of the American Chemical Society, 2021, 143, 1529-1538. | 13.7 | 55 |
| 60 | Nanoscale interfacial engineering enables highly stable and efficient perovskite photovoltaics. Energy and Environmental Science, 2021, 14, 5552-5562. | 30.8 | 69 |
| 61 | Interfacial Passivation Engineering of Perovskite Solar Cells with Fill Factor over 82% and Outstanding Operational Stability on n-i-p Architecture. ACS Energy Letters, 2021, 6, 3916-3923. | 17.4 | 115 |
| 62 | Structural and Compositional Investigations on the Stability of Cuprous Oxide Nanowire Photocathodes for Photoelectrochemical Water Splitting. ACS Applied Materials &amp; Interfaces, 2021, 13, 55080-55091. | 8.0 | 18 |
| 63 | Thermodynamic stability screening of IR-photonic processed multication halide perovskite thin films. Journal of Materials Chemistry A, 2021, 9, 26885-26895. | 10.3 | 4 |
| 64 | Solid-state dye-sensitized solar cells using polymeric hole conductors. RSC Advances, 2021, 11, 39570-39581. | 3.6 | 9 |
| 65 | Electronâ€Withdrawing Anchor Group of Sensitizer for Dyeâ€Sensitized Solar Cells, Cyanoacrylic Acid, or Benzoic Acid?. Solar Rrl, 2020, 4, 1900436. | 5.8 | 20 |
| 66 | Electronic Structures and Catalytic Activities of Niobium Oxides as Electrocatalysts in Liquidâ€Junction Photovoltaic Devices. Solar Rrl, 2020, 4, 1900430. | 5.8 | 29 |
| 67 | Efficient and stable planar all-inorganic perovskite solar cells based on high-quality CsPbBr3 films with controllable morphology. Journal of Energy Chemistry, 2020, 46, 8-15. | 12.9 | 89 |
| 68 | Molecular Engineering of Simple Metalâ€Free Organic Dyes Derived from Triphenylamine for Dyeâ€Sensitized Solar Cell Applications. ChemSusChem, 2020, 13, 212-220. | 6.8 | 31 |
| 69 | Zinc Phthalocyanine Conjugated Dimers as Efficient Dopantâ€Free Hole Transporting Materials in Perovskite Solar Cells. ChemPhotoChem, 2020, 4, 307-314. | 3.0 | 19 |
| 70 | Intermediate Phase Enhances Inorganic Perovskite and Metal Oxide Interface for Efficient Photovoltaics. Joule, 2020, 4, 222-234. | 24.0 | 88 |
| 71 | Highly efficient and rapid manufactured perovskite solar cells via Flash InfraRed Annealing. Materials Today, 2020, 35, 9-15. | 14.2 | 35 |
| 72 | Guanineâ€Stabilized Formamidinium Lead Iodide Perovskites. Angewandte Chemie - International Edition, 2020, 59, 4691-4697. | 13.8 | 61 |

| # | Article | IF | Citations |
|---|---|---|---|
| 73 | The application of transition metal complexes in hole-transporting layers for perovskite solar cells: Recent progress and future perspectives. Coordination Chemistry Reviews, 2020, 406, 213143. | 18.8 | 50 |
| 74 | Dopant-Free Hole-Transport Materials with Germanium Compounds Bearing Pseudohalide and Chalcogenide Moieties for Perovskite Solar Cells. Inorganic Chemistry, 2020, 59, 15154-15166. | 4.0 | 2 |
| 75 | Polymeric room-temperature molten salt as a multifunctional additive toward highly efficient and stable inverted planar perovskite solar cells. Energy and Environmental Science, 2020, 13, 5068-5079. | 30.8 | 121 |
| 76 | Fine-Tuning by Triple Bond of Carbazole Derivative Dyes to Obtain High Efficiency for Dye-Sensitized Solar Cells with Copper Electrolyte. ACS Applied Materials &amp; Interfaces, 2020, 12, 46397-46405. | 8.0 | 27 |
| 77 | Unveiling the light soaking effects of the CsPbI3 perovskite solar cells. Journal of Power Sources, 2020, 472, 228506. | 7.8 | 21 |
| 78 | Postpassivation of Multication Perovskite with Rubidium Butyrate. ACS Photonics, 2020, 7, 2282-2291. | 6.6 | 11 |
| 79 | Formamidiniumâ€Based Dionâ€Jacobson Layered Hybrid Perovskites: Structural Complexity and Optoelectronic Properties. Advanced Functional Materials, 2020, 30, 2003428. | 14.9 | 61 |
| 80 | Quasiâ€Heteroface Perovskite Solar Cells. Small, 2020, 16, e2002887. | 10.0 | 4 |
| 81 | Unravelling the structural complexity and photophysical properties of adamantyl-based layered hybrid perovskites. Journal of Materials Chemistry A, 2020, 8, 17732-17740. | 10.3 | 14 |
| 82 | Blue Photosensitizer with Copper(II/I) Redox Mediator for Efficient and Stable Dyeâ€Sensitized Solar Cells. Advanced Functional Materials, 2020, 30, 2004804. | 14.9 | 30 |
| 83 | Outstanding Passivation Effect by a Mixed-Salt Interlayer with Internal Interactions in Perovskite Solar Cells. ACS Energy Letters, 2020, 5, 3159-3167. | 17.4 | 47 |
| 84 | Effect of TiO2 Photoanodes Morphology and Dye Structure on Dye-Regeneration Kinetics Investigated by Scanning Electrochemical Microscopy. Electrochem, 2020, 1, 329-343. | 3.3 | 1 |
| 85 | Low-temperature carbon-based electrodes in perovskite solar cells. Energy and Environmental Science, 2020, 13, 3880-3916. | 30.8 | 149 |
| 86 | Crown Ether Modulation Enables over 23% Efficient Formamidinium-Based Perovskite Solar Cells. Journal of the American Chemical Society, 2020, 142, 19980-19991. | 13.7 | 145 |
| 87 | Dual Passivation of CsPbI<sub>3</sub> Perovskite Nanocrystals with Amino Acid Ligands for Efficient Quantum Dot Solar Cells. Small, 2020, 16, e2001772. | 10.0 | 127 |
| 88 | Reduced Graphene Oxide Improves Moisture and Thermal Stability of Perovskite Solar Cells. Cell Reports Physical Science, 2020, 1, 100053. | 5.6 | 24 |
| 89 | Passivation Mechanism Exploiting Surface Dipoles Affords High-Performance Perovskite Solar Cells. Journal of the American Chemical Society, 2020, 142, 11428-11433. | 13.7 | 107 |
| 90 | Stabilization of Highly Efficient and Stable Phaseâ€Pure FAPbI<sub>3</sub> Perovskite Solar Cells by Molecularly Tailored 2Dâ€Overlayers. Angewandte Chemie - International Edition, 2020, 59, 15688-15694. | 13.8 | 201 |

| # | ARTICLE | IF | CITATIONS |
|---|---|---|---|
| 91 | Side-chain engineering of PEDOT derivatives as dopant-free hole-transporting materials for efficient and stable nâ€“iâ€“p structured perovskite solar cells. Journal of Materials Chemistry C, 2020, 8, 9236-9242. | 5.5 | 14 |
| 92 | Stabilization of Highly Efficient and Stable Phaseâ€Pure FAPbI<sub>3</sub> Perovskite Solar Cells by Molecularly Tailored 2Dâ€Overlayers. Angewandte Chemie, 2020, 132, 15818-15824. | 2.0 | 17 |
| 93 | Highly efficient, stable and hysteresisâ€'less planar perovskite solar cell based on chemical bath treated Zn2SnO4 electron transport layer. Nano Energy, 2020, 75, 105038. | 16.0 | 77 |
| 94 | Understanding the Interfaces between Triple-Cation Perovskite and Electron or Hole Transporting Material. ACS Applied Materials &amp; Interfaces, 2020, 12, 30399-30410. | 8.0 | 8 |
| 95 | Revealing the Mechanism of Doping of <i>spiro</i>-MeOTAD via Zn Complexation in the Absence of Oxygen and Light. ACS Energy Letters, 2020, 5, 1271-1277. | 17.4 | 29 |
| 96 | Interfacial and bulk properties of hole transporting materials in perovskite solar cells: spiro-MeTAD<i>versus</i>spiro-OMeTAD. Journal of Materials Chemistry A, 2020, 8, 8527-8539. | 10.3 | 28 |
| 97 | Liquid State and Zombie Dye Sensitized Solar Cells with Copper Bipyridine Complexes Functionalized with Alkoxy Groups. Journal of Physical Chemistry C, 2020, 124, 7071-7081. | 3.1 | 24 |
| 98 | A Blue Photosensitizer Realizing Efficient and Stable Green Solar Cells via Color Tuning by the Electrolyte. Advanced Materials, 2020, 32, 2000193. | 21.0 | 24 |
| 99 | Compositional and Interface Engineering of Organic-Inorganic Lead Halide Perovskite Solar Cells. IScience, 2020, 23, 101359. | 4.1 | 105 |
| 100 | First Report of Chenodeoxycholic Acidâ€“Substituted Dyes Improving the Dye Monolayer Quality in Dyeâ€Sensitized Solar Cells. Solar Rrl, 2020, 4, 1900569. | 5.8 | 21 |
| 101 | Cu2O photocathodes with band-tail states assisted hole transport for standalone solar water splitting. Nature Communications, 2020, 11, 318. | 12.8 | 139 |
| 102 | Consensus statement for stability assessment and reporting for perovskite photovoltaics based on ISOS procedures. Nature Energy, 2020, 5, 35-49. | 39.5 | 797 |
| 103 | Ligandâ€Modulated Excess PbI<sub>2</sub> Nanosheets for Highly Efficient and Stable Perovskite Solar Cells. Advanced Materials, 2020, 32, e2000865. | 21.0 | 136 |
| 104 | Tailored Amphiphilic Molecular Mitigators for Stable Perovskite Solar Cells with 23.5% Efficiency. Advanced Materials, 2020, 32, e1907757. | 21.0 | 303 |
| 105 | Vapor-assisted deposition of highly efficient, stable black-phase FAPbI <sub>3</sub> perovskite solar cells. Science, 2020, 370, . | 12.6 | 530 |
| 106 | D35-TiO2 nano-crystalline film as a high performance visible-light photocatalyst towards the degradation of bis-phenol A. Chemical Engineering Journal, 2019, 355, 999-1010. | 12.7 | 64 |
| 107 | Atomic Layer Deposition of ZnO on CuO Enables Selective and Efficient Electroreduction of Carbon Dioxide to Liquid Fuels. Angewandte Chemie, 2019, 131, 15178-15182. | 2.0 | 33 |
| 108 | Atomic Layer Deposition of ZnO on CuO Enables Selective and Efficient Electroreduction of Carbon Dioxide to Liquid Fuels. Angewandte Chemie - International Edition, 2019, 58, 15036-15040. | 13.8 | 150 |

| # | ARTICLE | IF | CITATIONS |
|---|---|---|---|
| 109 | <i>p</i>-Phenylene-bridged zinc phthalocyanine-dimer as hole-transporting material in perovskite solar cells. Journal of Porphyrins and Phthalocyanines, 2019, 23, 546-553. | 0.8 | 12 |
| 110 | Directly Photoexcited Oxides for Photoelectrochemical Water Splitting. ChemSusChem, 2019, 12, 4337-4352. | 6.8 | 15 |
| 111 | Ba-induced phase segregation and band gap reduction in mixed-halide inorganic perovskite solar cells. Nature Communications, 2019, 10, 4686. | 12.8 | 105 |
| 112 | Nanoscale mapping of chemical composition in organic-inorganic hybrid perovskite films. Science Advances, 2019, 5, eaaw6619. | 10.3 | 79 |
| 113 | Indeno[1,2â€<i>b</i>]carbazole as Methoxyâ€Free Donor Group: Constructing Efficient and Stable Holeâ€Transporting Materials for Perovskite Solar Cells. Angewandte Chemie, 2019, 131, 15868-15872. | 2.0 | 15 |
| 114 | Indeno[1,2â€<i>b</i>]carbazole as Methoxyâ€Free Donor Group: Constructing Efficient and Stable Holeâ€Transporting Materials for Perovskite Solar Cells. Angewandte Chemie - International Edition, 2019, 58, 15721-15725. | 13.8 | 94 |
| 115 | Crystal Orientation and Grain Size: Do They Determine Optoelectronic Properties of MAPbI<sub>3</sub> Perovskite?. Journal of Physical Chemistry Letters, 2019, 10, 6010-6018. | 4.6 | 82 |
| 116 | PbZrTiO<sub>3</sub> ferroelectric oxide as an electron extraction material for stable halide perovskite solar cells. Sustainable Energy and Fuels, 2019, 3, 382-389. | 4.9 | 35 |
| 117 | Design, synthesis and characterization of 1,8-naphthalimide based fullerene derivative as electron transport material for inverted perovskite solar cells. Synthetic Metals, 2019, 249, 25-30. | 3.9 | 10 |
| 118 | Morphological and compositional progress in halide perovskite solar cells. Chemical Communications, 2019, 55, 1192-1200. | 4.1 | 136 |
| 119 | Blocking the Charge Recombination with Diiodide Radicals by TiO<sub>2</sub> Compact Layer in Dye-Sensitized Solar Cells. Journal of the Electrochemical Society, 2019, 166, B3203-B3208. | 2.9 | 10 |
| 120 | Improving energy transfer efficiency of dye-sensitized solar cell by fine tuning of dye planarity. Solar Energy, 2019, 187, 274-280. | 6.1 | 24 |
| 121 | Effect of furan Ï€-spacer and triethylene oxide methyl ether substituents on performance of phenothiazine sensitizers in dye-sensitized solar cells. New Journal of Chemistry, 2019, 43, 9403-9410. | 2.8 | 16 |
| 122 | Performance of perovskite solar cells under simulated temperature-illumination real-world operating conditions. Nature Energy, 2019, 4, 568-574. | 39.5 | 186 |
| 123 | Ultrahydrophobic 3D/2D fluoroarene bilayer-based water-resistant perovskite solar cells with efficiencies exceeding 22%. Science Advances, 2019, 5, eaaw2543. | 10.3 | 524 |
| 124 | Diverging surface reactions at TiO<sub>2</sub>- or ZnO-based photoanodes in dye-sensitized solar cells. Physical Chemistry Chemical Physics, 2019, 21, 13047-13057. | 2.8 | 20 |
| 125 | A hybrid niobium-based oxide with bio-based porous carbon as an efficient electrocatalyst in photovoltaics: a general strategy for understanding the catalytic mechanism. Journal of Materials Chemistry A, 2019, 7, 14864-14875. | 10.3 | 74 |
| 126 | Boosting the power conversion efficiency of perovskite solar cells to 17.7% with an indolo[3,2-<i>b</i>]carbazole dopant-free hole transporting material by improving its spatial configuration. Journal of Materials Chemistry A, 2019, 7, 14835-14841. | 10.3 | 39 |

| # | ARTICLE | IF | CITATIONS |
|---|---|---|---|
| 127 | Dye sensitized photoelectrolysis cells. Chemical Society Reviews, 2019, 48, 3705-3722. | 38.1 | 133 |
| 128 | A comprehensive experimental study of five fundamental phenothiazine geometries increasing the diversity of the phenothiazine dye class for dye-sensitized solar cells. Dyes and Pigments, 2019, 169, 66-72. | 3.7 | 9 |
| 129 | Towards Oxide Electronics: a Roadmap. Applied Surface Science, 2019, 482, 1-93. | 6.1 | 236 |
| 130 | Perovskite Solar Cells Based on Oligotriarylamine Hexaarylbenzene as Hole-Transporting Materials. Organic Letters, 2019, 21, 3261-3264. | 4.6 | 12 |
| 131 | Fine-tuning the coordination atoms of copper redox mediators: an effective strategy for boosting the photovoltage of dye-sensitized solar cells. Journal of Materials Chemistry A, 2019, 7, 12808-12814. | 10.3 | 12 |
| 132 | SnS Quantum Dots as Hole Transporter of Perovskite Solar Cells. ACS Applied Energy Materials, 2019, 2, 3822-3829. | 5.1 | 26 |
| 133 | Power output stabilizing feature in perovskite solar cells at operating condition: Selective contact-dependent charge recombination dynamics. Nano Energy, 2019, 61, 126-131. | 16.0 | 35 |
| 134 | Metal Coordination Complexes as Redox Mediators in Regenerative Dye-Sensitized Solar Cells. Inorganics, 2019, 7, 30. | 2.7 | 79 |
| 135 | 13.6% Efficient Organic Dye-Sensitized Solar Cells by Minimizing Energy Losses of the Excited State. ACS Energy Letters, 2019, 4, 943-951. | 17.4 | 284 |
| 136 | Toward an alternative approach for the preparation of low-temperature titanium dioxide blocking underlayers for perovskite solar cells. Journal of Materials Chemistry A, 2019, 7, 10729-10738. | 10.3 | 13 |
| 137 | Triarylamine-based hydrido-carboxylate rhenium(i) complexes as photosensitizers for dye-sensitized solar cells. Physical Chemistry Chemical Physics, 2019, 21, 7534-7543. | 2.8 | 19 |
| 138 | Low-cost high-efficiency system for solar-driven conversion of CO <sub>2</sub> to hydrocarbons. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 9735-9740. | 7.1 | 126 |
| 139 | Phosphonic Acid Modification of the Electron Selective Contact: Interfacial Effects in Perovskite Solar Cells. ACS Applied Energy Materials, 2019, 2, 2402-2408. | 5.1 | 23 |
| 140 | Origin of apparent light-enhanced and negative capacitance in perovskite solar cells. Nature Communications, 2019, 10, 1574. | 12.8 | 167 |
| 141 | A tandem redox system with a cobalt complex and 2-azaadamantane-<i>N</i>-oxyl for fast dye regeneration and open circuit voltages exceeding 1 V. Journal of Materials Chemistry A, 2019, 7, 10998-11006. | 10.3 | 8 |
| 142 | Auxiliary donors for phenothiazine sensitizers for dye-sensitized solar cells â€“ how important are they really?. Journal of Materials Chemistry A, 2019, 7, 7581-7590. | 10.3 | 33 |
| 143 | Photoinduced Lattice Symmetry Enhancement in Mixed Hybrid Perovskites and Its Beneficial Effect on the Recombination Behavior. Advanced Optical Materials, 2019, 7, 1801512. | 7.3 | 26 |
| 144 | A Scalable Methylamine Gas Healing Strategy for Highâ€•Efficiency Inorganic Perovskite Solar Cells. Angewandte Chemie - International Edition, 2019, 58, 5587-5591. | 13.8 | 121 |

| # | Article | IF | Citations |
|---|---|---|---|
| 145 | A Scalable Methylamine Gas Healing Strategy for Highâ€Efficiency Inorganic Perovskite Solar Cells. Angewandte Chemie, 2019, 131, 5643-5647. | 2.0 | 19 |
| 146 | Photoelectrochemical Cells Based on Dye Sensitization for Electricity and Fuel Production. Chimia, 2019, 73, 894. | 0.6 | 12 |
| 147 | Synergistic Crystal and Interface Engineering for Efficient and Stable Perovskite Photovoltaics. Advanced Energy Materials, 2019, 9, 1802646. | 19.5 | 189 |
| 148 | Electrochemically polymerized poly (3, 4-phenylenedioxythiophene) as efficient and transparent counter electrode for dye sensitized solar cells. Electrochimica Acta, 2019, 300, 482-488. | 5.2 | 38 |
| 149 | Europium-Doped CsPbI2Br for Stable and Highly Efficient Inorganic Perovskite Solar Cells. Joule, 2019, 3, 205-214. | 24.0 | 387 |
| 150 | A chain is as strong as its weakest link â€“ Stability study of MAPbI3 under light and temperature. Materials Today, 2019, 29, 10-19. | 14.2 | 58 |
| 151 | Bifunctional Organic Spacers for Formamidinium-Based Hybrid Dionâ€“Jacobson Two-Dimensional Perovskite Solar Cells. Nano Letters, 2019, 19, 150-157. | 9.1 | 218 |
| 152 | Molecular Engineering of Copper Phthalocyanines: A Strategy in Developing Dopantâ€Free Holeâ€Transporting Materials for Efficient and Ambientâ€Stable Perovskite Solar Cells. Advanced Energy Materials, 2019, 9, 1803287. | 19.5 | 138 |
| 153 | Solution-Processed Cu<sub>2</sub>S Photocathodes for Photoelectrochemical Water Splitting. ACS Energy Letters, 2018, 3, 760-766. | 17.4 | 89 |
| 154 | Low-Temperature Nb-Doped SnO<sub>2</sub> Electron-Selective Contact Yields over 20% Efficiency in Planar Perovskite Solar Cells. ACS Energy Letters, 2018, 3, 773-778. | 17.4 | 157 |
| 155 | New covalently bonded dye/hole transporting material for better charge transfer in solid-state dye-sensitized solar cells. Electrochimica Acta, 2018, 269, 163-171. | 5.2 | 7 |
| 156 | Planar Perovskite Solar Cells with High Openâ€Circuit Voltage Containing a Supramolecular Iron Complex as Hole Transport Material Dopant. ChemPhysChem, 2018, 19, 1363-1370. | 2.1 | 17 |
| 157 | Comprehensive control of voltage loss enables 11.7% efficient solid-state dye-sensitized solar cells. Energy and Environmental Science, 2018, 11, 1779-1787. | 30.8 | 148 |
| 158 | Adamantanes Enhance the Photovoltaic Performance and Operational Stability of Perovskite Solar Cells by Effective Mitigation of Interfacial Defect States. Advanced Energy Materials, 2018, 8, 1800275. | 19.5 | 106 |
| 159 | Carbon Nanoparticles in Highâ€Performance Perovskite Solar Cells. Advanced Energy Materials, 2018, 8, 1702719. | 19.5 | 74 |
| 160 | Poly(ethylene glycol)â€“[60]Fullereneâ€Based Materials for Perovskite Solar Cells with Improved Moisture Resistance and Reduced Hysteresis. ChemSusChem, 2018, 11, 1032-1039. | 6.8 | 57 |
| 161 | Systematic investigation of the impact of operation conditions on the degradation behaviour of perovskite solar cells. Nature Energy, 2018, 3, 61-67. | 39.5 | 544 |
| 162 | Boosting the Efficiency of Perovskite Solar Cells with CsBrâ€Modified Mesoporous TiO<sub>2</sub> Beads as Electronâ€Selective Contact. Advanced Functional Materials, 2018, 28, 1705763. | 14.9 | 115 |

| # | ARTICLE | IF | CITATIONS |
|---|---|---|---|
| 163 | New-generation integrated devices based on dye-sensitized and perovskite solar cells. Energy and Environmental Science, 2018, 11, 476-526. | 30.8 | 364 |
| 164 | Alternative bases to 4-tert-butylpyridine for dye-sensitized solar cells employing copper redox mediator. Electrochimica Acta, 2018, 265, 194-201. | 5.2 | 38 |
| 165 | An investigation of the roles furan <i>versus</i> thiophene Ï€-bridges play in donorâ€"Ï€-acceptor porphyrin based DSSCs. Dalton Transactions, 2018, 47, 6549-6556. | 3.3 | 24 |
| 166 | Greener, Nonhalogenated Solvent Systems for Highly Efficient Perovskite Solar Cells. Advanced Energy Materials, 2018, 8, 1800177. | 19.5 | 106 |
| 167 | Direct Contact of Selective Charge Extraction Layers Enables High-Efficiency Molecular Photovoltaics. Joule, 2018, 2, 1108-1117. | 24.0 | 291 |
| 168 | Experimental and Theoretical Investigation of the Function of 4-<i>tert</i>-Butyl Pyridine for Interface Energy Level Adjustment in Efficient Solid-State Dye-Sensitized Solar Cells. ACS Applied Materials &amp; Interfaces, 2018, 10, 11572-11579. | 8.0 | 15 |
| 169 | Perowskitâ€Solarzellen: atomare Ebene, SchichtqualitÃt und LeistungsfÃhigkeit der Zellen. Angewandte Chemie, 2018, 130, 2582-2598. | 2.0 | 37 |
| 170 | Perovskite Solar Cells: From the Atomic Level to Film Quality and Device Performance. Angewandte Chemie - International Edition, 2018, 57, 2554-2569. | 13.8 | 413 |
| 171 | Interpretation and evolution of open-circuit voltage, recombination, ideality factor and subgap defect states during reversible light-soaking and irreversible degradation of perovskite solar cells. Energy and Environmental Science, 2018, 11, 151-165. | 30.8 | 586 |
| 172 | Solid-State Dye-Sensitized Solar Cells. Green Chemistry and Sustainable Technology, 2018, , 151-185. | 0.7 | 10 |
| 173 | Photobatteries and Photocapacitors. Green Chemistry and Sustainable Technology, 2018, , 281-325. | 0.7 | 4 |
| 174 | Molecular Design of Efficient Organic Dâ€"Aâ€"â€"A Dye Featuring Triphenylamine as Donor Fragment for Application in Dyeâ€Sensitized Solar Cells. ChemSusChem, 2018, 11, 494-502. | 6.8 | 45 |
| 175 | Enhanced charge carrier mobility and lifetime suppress hysteresis and improve efficiency in planar perovskite solar cells. Energy and Environmental Science, 2018, 11, 78-86. | 30.8 | 246 |
| 176 | One plus one greater than two: high-performance inverted planar perovskite solar cells based on a composite CuI/CuSCN hole-transporting layer. Journal of Materials Chemistry A, 2018, 6, 21435-21444. | 10.3 | 64 |
| 177 | The Importance of Pendant Groups on Triphenylamineâ€Based Hole Transport Materials for Obtaining Perovskite Solar Cells with over 20% Efficiency. Advanced Energy Materials, 2018, 8, 1701209. | 19.5 | 134 |
| 178 | Methylammonium-free, high-performance, and stable perovskite solar cells on a planar architecture. Science, 2018, 362, 449-453. | 12.6 | 816 |
| 179 | Phase stabilization of all-inorganic perovskite materials for photovoltaics. Current Opinion in Electrochemistry, 2018, 11, 141-145. | 4.8 | 4 |
| 180 | Resurgence of DSCs with copper electrolyte: a detailed investigation of interfacial charge dynamics with cobalt and iodine based electrolytes. Journal of Materials Chemistry A, 2018, 6, 22204-22214. | 10.3 | 72 |

| # | Article | IF | Citations |
|---|---|---|---|
| 181 | Boosting the performance of Cu2O photocathodes for unassisted solar water splitting devices. Nature Catalysis, 2018, 1, 412-420. | 34.4 | 489 |
| 182 | Elucidation of Charge Recombination and Accumulation Mechanism in Mixed Perovskite Solar Cells. Journal of Physical Chemistry C, 2018, 122, 15149-15154. | 3.1 | 59 |
| 183 | Novel p-dopant toward highly efficient and stable perovskite solar cells. Energy and Environmental Science, 2018, 11, 2985-2992. | 30.8 | 216 |
| 184 | Temperature dependent two-photon photoluminescence of CH<sub>3</sub>NH<sub>3</sub>PbBr<sub>3</sub>: structural phase and exciton to free carrier transition. Optical Materials Express, 2018, 8, 511. | 3.0 | 26 |
| 185 | Reducing Surface Recombination by a Poly(4-vinylpyridine) Interlayer in Perovskite Solar Cells with High Open-Circuit Voltage and Efficiency. ACS Omega, 2018, 3, 5038-5043. | 3.5 | 38 |
| 186 | Lateral Intermolecular Electronic Interactions of Diketopyrrolopyrrole Dâˆ’Ï€â€“A Solar Dye Sensitizers Adsorbed on Mesoporous Alumina. Journal of Physical Chemistry C, 2018, 122, 19348-19358. | 3.1 | 9 |
| 187 | Effect of Coordination Sphere Geometry of Copper Redox Mediators on Regeneration and Recombination Behavior in Dye-Sensitized Solar Cell Applications. ACS Applied Energy Materials, 2018, 1, 4950-4962. | 5.1 | 49 |
| 188 | Electronâ€•Affinityâ€•Triggered Variations on the Optical and Electrical Properties of Dye Molecules Enabling Highly Efficient Dyeâ€•Sensitized Solar Cells. Angewandte Chemie, 2018, 130, 14321-14324. | 2.0 | 26 |
| 189 | Efficient and Stable Dye-Sensitized Solar Cells Based on a Tetradentate Copper(II/I) Redox Mediator. ACS Applied Materials &amp; Interfaces, 2018, 10, 30409-30416. | 8.0 | 31 |
| 190 | Interfacial Engineering of Metal Oxides for Highly Stable Halide Perovskite Solar Cells. Advanced Materials Interfaces, 2018, 5, 1800367. | 3.7 | 39 |
| 191 | Defects engineering for high-performance perovskite solar cells. Npj Flexible Electronics, 2018, 2, . | 10.7 | 334 |
| 192 | Donor Effect on the Photoinduced Interfacial Charge Transfer Dynamics of Dâˆ’Ï€â€“A Diketopyrrolopyrrole Dye Sensitizers Adsorbed on Titanium Dioxide. Journal of Physical Chemistry C, 2018, 122, 19359-19369. | 3.1 | 7 |
| 193 | Electronâ€•Affinityâ€•Triggered Variations on the Optical and Electrical Properties of Dye Molecules Enabling Highly Efficient Dyeâ€•Sensitized Solar Cells. Angewandte Chemie - International Edition, 2018, 57, 14125-14128. | 13.8 | 56 |
| 194 | How the formation of interfacial charge causes hysteresis in perovskite solar cells. Energy and Environmental Science, 2018, 11, 2404-2413. | 30.8 | 289 |
| 195 | Dye-Sensitized Solar Cells. , 2018, , 183-239. |  | 6 |
| 196 | (Keynote) The Versatility of Mesoscopic Solar Cells. ECS Meeting Abstracts, 2018, , . | 0.0 | 0 |
| 197 | Electrochemical Properties of Cu(II/I)-Based Redox Mediators for Dye-Sensitized Solar Cells. Electrochimica Acta, 2017, 227, 194-202. | 5.2 | 63 |
| 198 | Migration of cations induces reversible performance losses over day/night cycling in perovskite solar cells. Energy and Environmental Science, 2017, 10, 604-613. | 30.8 | 525 |

| # | Article | IF | Citations |
|---|---|---|---|
| 199 | Incorporation of Counter Ions in Organic Molecules: New Strategy in Developing Dopantâ€Free Hole Transport Materials for Efficient Mixedâ€Ion Perovskite Solar Cells. Advanced Energy Materials, 2017, 7, 1602736. | 19.5 | 72 |
| 200 | High Temperatureâ€Stable Perovskite Solar Cell Based on Lowâ€Cost Carbon Nanotube Hole Contact. Advanced Materials, 2017, 29, 1606398. | 21.0 | 209 |
| 201 | Changes from Bulk to Surface Recombination Mechanisms between Pristine and Cycled Perovskite Solar Cells. ACS Energy Letters, 2017, 2, 681-688. | 17.4 | 122 |
| 202 | Photoinduced Stark Effects and Mechanism of Ion Displacement in Perovskite Solar Cell Materials. ACS Nano, 2017, 11, 2823-2834. | 14.6 | 47 |
| 203 | The rapid evolution of highly efficient perovskite solar cells. Energy and Environmental Science, 2017, 10, 710-727. | 30.8 | 942 |
| 204 | Nondestructive Probing of Perovskite Silicon Tandem Solar Cells Using Multiwavelength Photoluminescence Mapping. IEEE Journal of Photovoltaics, 2017, 7, 1081-1086. | 2.5 | 24 |
| 205 | Tailor-Making Low-Cost Spiro[fluorene-9,9â€²-xanthene]-Based 3D Oligomers for Perovskite Solar Cells. CheM, 2017, 2, 676-687. | 11.7 | 222 |
| 206 | Dye-sensitized solar cells for efficient power generation under ambient lighting. Nature Photonics, 2017, 11, 372-378. | 31.4 | 871 |
| 207 | Intrinsic Origin of Superior Catalytic Properties of Tungsten-based Catalysts in Dye-sensitized Solar Cells. Electrochimica Acta, 2017, 242, 390-399. | 5.2 | 73 |
| 208 | Spontaneous crystal coalescence enables highly efficient perovskite solar cells. Nano Energy, 2017, 39, 24-29. | 16.0 | 62 |
| 209 | 11% efficiency solid-state dye-sensitized solar cells with copper(II/I) hole transport materials. Nature Communications, 2017, 8, 15390. | 12.8 | 229 |
| 210 | Theoretical Treatment of CH<sub>3</sub>NH<sub>3</sub>PbI<sub>3</sub> Perovskite Solar Cells. Angewandte Chemie - International Edition, 2017, 56, 15806-15817. | 13.8 | 107 |
| 211 | Theoretische Abhandlung Ã¼ber CH<sub>3</sub>NH<sub>3</sub>PbI<sub>3</sub>â€Perowskitâ€Solarzellen. Angewandte Chemie, 2017, 129, 16014-16026. | 2.0 | 5 |
| 212 | Monolithic CIGSâ€“Perovskite Tandem Cell for Optimal Light Harvesting without Current Matching. ACS Photonics, 2017, 4, 861-867. | 6.6 | 27 |
| 213 | Identifying and suppressing interfacial recombination to achieve high open-circuit voltage in perovskite solar cells. Energy and Environmental Science, 2017, 10, 1207-1212. | 30.8 | 288 |
| 214 | Chemical Distribution of Multiple Cation (Rb<sup>+</sup>, Cs<sup>+</sup>, MA<sup>+</sup>, and) Tj ETQq0 0 0 rgBT /Overlock 10 T<br>29, 3589-3596. | 6.7 | 175 |
| 215 | Elucidating the role of chlorine in perovskite solar cells. Journal of Materials Chemistry A, 2017, 5, 7423-7432. | 10.3 | 95 |
| 216 | Characterization techniques for dye-sensitized solar cells. Energy and Environmental Science, 2017, 10, 672-709. | 30.8 | 136 |

| # | ARTICLE | IF | CITATIONS |
|---|---|---|---|
| 217 | Morphology Engineering: A Route to Highly Reproducible and High Efficiency Perovskite Solar Cells. ChemSusChem, 2017, 10, 1624-1630. | 6.8 | 46 |
| 218 | Novel highly active Pt/graphene catalyst for cathodes of Cu(II/I)-mediated dye-sensitized solar cells. Electrochimica Acta, 2017, 251, 167-175. | 5.2 | 43 |
| 219 | Analysis of crystalline phases and integration modelling of charge quenching yields in hybrid lead halide perovskite solar cell materials. Nano Energy, 2017, 40, 596-606. | 16.0 | 17 |
| 220 | The End-of-Life of Perovskite PV. Joule, 2017, 1, 29-46. | 24.0 | 82 |
| 221 | Globularityâ€Selected Large Molecules for a New Generation of Multication Perovskites. Advanced Materials, 2017, 29, 1702005. | 21.0 | 81 |
| 222 | Perovskite solar cell â€“ electrochemical double layer capacitor interplay. Electrochimica Acta, 2017, 258, 825-833. | 5.2 | 18 |
| 223 | Photon Energy-Dependent Hysteresis Effects in Lead Halide Perovskite Materials. Journal of Physical Chemistry C, 2017, 121, 26180-26187. | 3.1 | 26 |
| 224 | Valence Level Character in a Mixed Perovskite Material and Determination of the Valence Band Maximum from Photoelectron Spectroscopy: Variation with Photon Energy. Journal of Physical Chemistry C, 2017, 121, 26655-26666. | 3.1 | 98 |
| 225 | Promises and challenges of perovskite solar cells. Science, 2017, 358, 739-744. | 12.6 | 1,510 |
| 226 | Effect of Cs-Incorporated NiO<sub><i>x</i></sub> on the Performance of Perovskite Solar Cells. ACS Omega, 2017, 2, 9074-9079. | 3.5 | 43 |
| 227 | Additives, Hole Transporting Materials and Spectroscopic Methods to Characterize the Properties of Perovskite Films. Chimia, 2017, 71, 754. | 0.6 | 4 |
| 228 | Constructive Effects of Alkyl Chains: A Strategy to Design Simple and Nonâ€Spiro Hole Transporting Materials for Highâ€Efficiency Mixedâ€Ion Perovskite Solar Cells. Advanced Energy Materials, 2016, 6, 1502536. | 19.5 | 72 |
| 229 | Highly effective Co3S4/electrospun-carbon-nanofibers composite counter electrode synthesized with electrospun technique for cobalt redox electrolyte based on dye-sensitized solar cells. Journal of Power Sources, 2016, 326, 6-13. | 7.8 | 36 |
| 230 | Highâ€Efficiency Perovskite Solar Cells Employing a <i>S</i>,<i>N</i>â€Heteropentaceneâ€based Dâ€“A Holeâ€Transport Material. ChemSusChem, 2016, 9, 433-438. | 6.8 | 61 |
| 231 | Unbroken Perovskite: Interplay of Morphology, Electroâ€optical Properties, and Ionic Movement. Advanced Materials, 2016, 28, 5031-5037. | 21.0 | 242 |
| 232 | Bipolar Membraneâ€Assisted Solar Water Splitting in Optimal pH. Advanced Energy Materials, 2016, 6, 1600100. | 19.5 | 156 |
| 233 | Optical analysis of CH<sub>3</sub>NH<sub>3</sub>Sn<sub>x</sub>Pb<sub>1âˆ’x</sub>I<sub>3</sub> absorbers: a roadmap for perovskite-on-perovskite tandem solar cells. Journal of Materials Chemistry A, 2016, 4, 11214-11221. | 10.3 | 101 |
| 234 | Efficient Blueâ€Colored Solidâ€State Dyeâ€Sensitized Solar Cells: Enhanced Charge Collection by Using an in Situ Photoelectrochemically Generated Conducting Polymer Hole Conductor. ChemPhysChem, 2016, 17, 1441-1445. | 2.1 | 21 |

| # | Article | IF | Citations |
|---|---|---|---|
| 235 | A New 1,3,4â€Oxadiazoleâ€Based Holeâ€Transport Material for Efficient CH<sub>3</sub>NH<sub>3</sub>PbBr<sub>3</sub> Perovskite Solar Cells. ChemSusChem, 2016, 9, 657-661. | 6.8 | 31 |
| 236 | A small electron donor in cobalt complex electrolyte significantly improves efficiency in dye-sensitized solar cells. Nature Communications, 2016, 7, 13934. | 12.8 | 81 |
| 237 | Facile synthesized organic hole transporting material for perovskite solar cell with efficiency of 19.8%. Nano Energy, 2016, 23, 138-144. | 16.0 | 253 |
| 238 | Not All That Glitters Is Gold: Metal-Migration-Induced Degradation in Perovskite Solar Cells. ACS Nano, 2016, 10, 6306-6314. | 14.6 | 966 |
| 239 | Towards optical optimization of planar monolithic perovskite/silicon-heterojunction tandem solar cells. Journal of Optics (United Kingdom), 2016, 18, 064012. | 2.2 | 82 |
| 240 | Properties of Contact and Bulk Impedances in Hybrid Lead Halide Perovskite Solar Cells Including Inductive Loop Elements. Journal of Physical Chemistry C, 2016, 120, 8023-8032. | 3.1 | 407 |
| 241 | Copper Phenanthroline as a Fast and High-Performance Redox Mediator for Dye-Sensitized Solar Cells. Journal of Physical Chemistry C, 2016, 120, 9595-9603. | 3.1 | 140 |
| 242 | The effect of mesoporous TiO2 pore size on the performance of solid-state dye sensitized solar cells based on photoelectrochemically polymerized Poly(3,4-ethylenedioxythiophene) hole conductor. Electrochimica Acta, 2016, 210, 23-31. | 5.2 | 8 |
| 243 | Room Temperature as a Goldilocks Environment for CH<sub>3</sub>NH<sub>3</sub>PbI<sub>3</sub> Perovskite Solar Cells: The Importance of Temperature on Device Performance. Journal of Physical Chemistry C, 2016, 120, 11382-11393. | 3.1 | 58 |
| 244 | Improving efficiency and stability of perovskite solar cells with photocurable fluoropolymers. Science, 2016, 354, 203-206. | 12.6 | 748 |
| 245 | Incorporation of rubidium cations into perovskite solar cells improves photovoltaic performance. Science, 2016, 354, 206-209. | 12.6 | 3,137 |
| 246 | Ambient air-processed mixed-ion perovskites for high-efficiency solar cells. Journal of Materials Chemistry A, 2016, 4, 16536-16545. | 10.3 | 55 |
| 247 | Supramolecular Hemicage Cobalt Mediators for Dyeâ€Sensitized Solar Cells. ChemPhysChem, 2016, 17, 3845-3852. | 2.1 | 15 |
| 248 | Low-cost Cr doped Pt3Ni alloy supported on carbon nanofibers composites counter electrode for efficient dye-sensitized solar cells. Journal of Power Sources, 2016, 328, 543-550. | 7.8 | 19 |
| 249 | Proof-of-concept for facile perovskite solar cell recycling. Energy and Environmental Science, 2016, 9, 3172-3179. | 30.8 | 105 |
| 250 | Enhancing Efficiency of Perovskite Solar Cells via Nâ€doped Graphene: Crystal Modification and Surface Passivation. Advanced Materials, 2016, 28, 8681-8686. | 21.0 | 281 |
| 251 | Ionic Liquid Control Crystal Growth to Enhance Planar Perovskite Solar Cells Efficiency. Advanced Energy Materials, 2016, 6, 1600767. | 19.5 | 224 |
| 252 | Additiveâ€Free Transparent Triarylamineâ€Based Polymeric Holeâ€Transport Materials for Stable Perovskite Solar Cells. ChemSusChem, 2016, 9, 2567-2571. | 6.8 | 65 |

| # | Article | IF | Citations |
|---|---|---|---|
| 253 | Highly efficient and stable planar perovskite solar cells by solution-processed tin oxide. Energy and Environmental Science, 2016, 9, 3128-3134. | 30.8 | 720 |
| 254 | Factors Affecting the Performance of Champion Silylâ€Anchor Carbazole Dye Revealed in the Femtosecond to Second Studies of Complete ADEKAâ€1 Sensitized Solar Cells. Chemistry - A European Journal, 2016, 22, 15807-15818. | 3.3 | 18 |
| 255 | Highly Efficient and Stable Perovskite Solar Cells based on a Lowâ€Cost Carbon Cloth. Advanced Energy Materials, 2016, 6, 1601116. | 19.5 | 107 |
| 256 | Unreacted PbI<sub>2</sub> as a Double-Edged Sword for Enhancing the Performance of Perovskite Solar Cells. Journal of the American Chemical Society, 2016, 138, 10331-10343. | 13.7 | 696 |
| 257 | The Role of 3D Molecular Structural Control in New Hole Transport Materials Outperforming <i>Spiro</i>â€OMeTAD in Perovskite Solar Cells. Advanced Energy Materials, 2016, 6, 1601062. | 19.5 | 87 |
| 258 | Effect of metal cation replacement on the electronic structure of metalorganic halide perovskites: Replacement of lead with alkaline-earth metals. Physical Review B, 2016, 93, . | 3.2 | 145 |
| 259 | A molecularly engineered hole-transporting material for efficient perovskite solar cells. Nature Energy, 2016, 1, . | 39.5 | 816 |
| 260 | Polymer-templated nucleation and crystal growth of perovskite films for solar cells with efficiency greater thanÂ21%. Nature Energy, 2016, 1, . | 39.5 | 1,719 |
| 261 | Ultrafast charge separation dynamics in opaque, operational dye-sensitized solar cells revealed by femtosecond diffuse reflectance spectroscopy. Scientific Reports, 2016, 6, 24465. | 3.3 | 22 |
| 262 | Solar Cells: Ionic Liquid Control Crystal Growth to Enhance Planar Perovskite Solar Cells Efficiency (Adv. Energy Mater. 20/2016). Advanced Energy Materials, 2016, 6, . | 19.5 | 2 |
| 263 | Mesoporous SnO2 electron selective contact enables UV-stable perovskite solar cells. Nano Energy, 2016, 30, 517-522. | 16.0 | 204 |
| 264 | Novel Blue Organic Dye for Dye-Sensitized Solar Cells Achieving High Efficiency in Cobalt-Based Electrolytes and by Co-Sensitization. ACS Applied Materials &amp; Interfaces, 2016, 8, 32797-32804. | 8.0 | 67 |
| 265 | Copper Bipyridyl Redox Mediators for Dye-Sensitized Solar Cells with High Photovoltage. Journal of the American Chemical Society, 2016, 138, 15087-15096. | 13.7 | 239 |
| 266 | A vacuum flashâ€“assisted solution process for high-efficiency large-area perovskite solar cells. Science, 2016, 353, 58-62. | 12.6 | 1,636 |
| 267 | Mesoporous carbon-imbedded W<sub>2</sub>C composites as flexible counter electrodes for dye-sensitized solar cells. Journal of Materials Chemistry C, 2016, 4, 6778-6783. | 5.5 | 13 |
| 268 | Strategy to Boost the Efficiency of Mixed-Ion Perovskite Solar Cells: Changing Geometry of the Hole Transporting Material. ACS Nano, 2016, 10, 6816-6825. | 14.6 | 127 |
| 269 | Investigation of cobalt redox mediators and effects of TiO<sub>2</sub> film topology in dye-sensitized solar cells. RSC Advances, 2016, 6, 56580-56588. | 3.6 | 16 |
| 270 | Highâ€Performance Perovskite Solar Cells with Enhanced Environmental Stability Based on Amphiphileâ€Modified CH<sub>3</sub>NH<sub>3</sub>PbI<sub>3</sub>. Advanced Materials, 2016, 28, 2910-2915. | 21.0 | 258 |

| # | ARTICLE | IF | CITATIONS |
|---|---|---|---|
| 271 | In-Situ Probing of H2O Effects on a Ru-Complex Adsorbed on TiO2 Using Ambient Pressure Photoelectron Spectroscopy. Topics in Catalysis, 2016, 59, 583-590. | 2.8 | 7 |
| 272 | Enhanced electronic properties in mesoporous TiO2 via lithium doping for high-efficiency perovskite solar cells. Nature Communications, 2016, 7, 10379. | 12.8 | 744 |
| 273 | Carbon nanotube-based hybrid hole-transporting material and selective contact for high efficiency perovskite solar cells. Energy and Environmental Science, 2016, 9, 461-466. | 30.8 | 185 |
| 274 | Cesium-containing triple cation perovskite solar cells: improved stability, reproducibility and high efficiency. Energy and Environmental Science, 2016, 9, 1989-1997. | 30.8 | 4,560 |
| 275 | Development of high efficiency 100% aqueous cobalt electrolyte dye-sensitised solar cells. Physical Chemistry Chemical Physics, 2016, 18, 8419-8427. | 2.8 | 38 |
| 276 | A low-cost spiro[fluorene-9,9â€²-xanthene]-based hole transport material for highly efficient solid-state dye-sensitized solar cells and perovskite solar cells. Energy and Environmental Science, 2016, 9, 873-877. | 30.8 | 362 |
| 277 | Physicochemical identity and charge storage properties of battery-type nickel oxide material and its composites with activated carbon. Electrochimica Acta, 2016, 194, 480-488. | 5.2 | 36 |
| 278 | A study of oligothiopheneâ€“acceptor dyes in p-type dye-sensitized solar cells. RSC Advances, 2016, 6, 18165-18177. | 3.6 | 21 |
| 279 | Highly efficient dye-sensitized solar cells achieved through using Pt-free Nb2O5/C composite counter electrode and iodide-free redox couples. Journal of Power Sources, 2016, 308, 37-43. | 7.8 | 13 |
| 280 | Exploration of the compositional space for mixed lead halogen perovskites for high efficiency solar cells. Energy and Environmental Science, 2016, 9, 1706-1724. | 30.8 | 622 |
| 281 | Efficient luminescent solar cells based on tailored mixed-cation perovskites. Science Advances, 2016, 2, e1501170. | 10.3 | 1,669 |
| 282 | Geometrical and energetical structural changes in organic dyes for dye-sensitized solar cells probed using photoelectron spectroscopy and DFT. Physical Chemistry Chemical Physics, 2016, 18, 252-260. | 2.8 | 28 |
| 283 | Efficient solid-state dye sensitized solar cells: The influence of dye molecular structures for the in-situ photoelectrochemically polymerized PEDOT as hole transporting material. Nano Energy, 2016, 19, 455-470. | 16.0 | 52 |
| 284 | Monolithic perovskite/silicon-heterojunction tandem solar cells processed at low temperature. Energy and Environmental Science, 2016, 9, 81-88. | 30.8 | 536 |
| 285 | Peripheral Hole Acceptor Moieties on an Organic Dye Improve Dyeâ€Sensitized Solar Cell Performance. Advanced Science, 2015, 2, 1500174. | 11.2 | 12 |
| 286 | Laser desorption/ionization mass spectrometry of dyeâ€sensitized solar cells: identification of the dyeâ€electrolyte interaction. Journal of Mass Spectrometry, 2015, 50, 734-739. | 1.6 | 4 |
| 287 | Transparent Cuprous Oxide Photocathode Enabling a Stacked Tandem Cell for Unbiased Water Splitting. Advanced Energy Materials, 2015, 5, 1501537. | 19.5 | 149 |
| 288 | Efficient dye regeneration at low driving force achieved in triphenylamine dye LEG4 and TEMPO redox mediator based dye-sensitized solar cells. Physical Chemistry Chemical Physics, 2015, 17, 15868-15875. | 2.8 | 58 |

| # | ARTICLE | IF | CITATIONS |
|---|---|---|---|
| 289 | High-efficiency dye-sensitized solar cells with molecular copper phenanthroline as solid hole conductor. Energy and Environmental Science, 2015, 8, 2634-2637. | 30.8 | 149 |
| 290 | Synthesis and characterization of an immobilizable photochemical molecular device for H2-generation. Dalton Transactions, 2015, 44, 5577-5586. | 3.3 | 22 |
| 291 | 3,4-Ethylenedioxythiophene-based cobalt complex: an efficient co-mediator in dye-sensitized solar cells with poly(3,4-ethylenedioxythiophene) counter-electrode. Electrochimica Acta, 2015, 179, 237-240. | 5.2 | 13 |
| 292 | Solventâ€Dependent Structure of the I<sub>3</sub><sup>âˆ’</sup> Ion Derived from Photoelectron Spectroscopy and Ab Initio Molecular Dynamics Simulations. Chemistry - A European Journal, 2015, 21, 4049-4055. | 3.3 | 23 |
| 293 | Photoelectrochemical Polymerization of EDOT for Solid State Dye Sensitized Solar Cells: Role of Dye and Solvent. Electrochimica Acta, 2015, 179, 220-227. | 5.2 | 16 |
| 294 | Resonance Raman and Excitation Energy Dependent Charge Transfer Mechanism in Halide-Substituted Hybrid Perovskite Solar Cells. ACS Nano, 2015, 9, 2088-2101. | 14.6 | 141 |
| 295 | Dipicolinic acid: a strong anchoring group with tunable redox and spectral behavior for stable dye-sensitized solar cells. Chemical Communications, 2015, 51, 3858-3861. | 4.1 | 26 |
| 296 | Stark effects in D35-sensitized mesoporous TiO 2 : influence of dye coverage and electrolyte composition. Electrochimica Acta, 2015, 179, 174-178. | 5.2 | 20 |
| 297 | Synthesis of highly effective Pt/carbon fiber composite counter electrode catalyst for dye-sensitized solar cells. Electrochimica Acta, 2015, 176, 997-1000. | 5.2 | 33 |
| 298 | Science in the Age of Digital Networking. Journal of Physical Chemistry Letters, 2015, 6, 2900-2901. | 4.6 | 0 |
| 299 | High efficiency stable inverted perovskite solar cells without current hysteresis. Energy and Environmental Science, 2015, 8, 2725-2733. | 30.8 | 533 |
| 300 | Carbon nanotube film replacing silver in high-efficiency solid-state dye solar cells employing polymer hole conductor. Journal of Solid State Electrochemistry, 2015, 19, 3139-3144. | 2.5 | 12 |
| 301 | Silolothiophene-linked triphenylamines as stable hole transporting materials for high efficiency perovskite solar cells. Energy and Environmental Science, 2015, 8, 2946-2953. | 30.8 | 163 |
| 302 | Facile route to freestanding CH3NH3PbI3 crystals using inverse solubility. Scientific Reports, 2015, 5, 11654. | 3.3 | 112 |
| 303 | Unraveling the Effect of PbI<sub>2</sub> Concentration on Charge Recombination Kinetics in Perovskite Solar Cells. ACS Photonics, 2015, 2, 589-594. | 6.6 | 97 |
| 304 | Matrix-Assisted Laser Desorption/Ionization Mass Spectrometric Analysis of Poly(3,4-ethylenedioxythiophene) in Solid-State Dye-Sensitized Solar Cells: Comparison of <i>In Situ</i> Photoelectrochemical Polymerization in Aqueous Micellar and Organic Media. Analytical Chemistry, 2015, 87, 3942-3948. | 6.5 | 17 |
| 305 | Goldschmidtâ€™s Rules and Strontium Replacement in Lead Halogen Perovskite Solar Cells: Theory and Preliminary Experiments on CH<sub>3</sub>NH<sub>3</sub>SrI<sub>3</sub>. Journal of Physical Chemistry C, 2015, 119, 25673-25683. | 3.1 | 211 |
| 306 | Dye-sensitized Solar Cells: New Approaches with Organic Solid-state Hole Conductors. Chimia, 2015, 69, 41. | 0.6 | 13 |

| # | Article | IF | Citations |
|---|---|---|---|
| 307 | Determination of Thermal Expansion Coefficients and Locating the Temperature-Induced Phase Transition in Methylammonium Lead Perovskites Using X-ray Diffraction. Inorganic Chemistry, 2015, 54, 10678-10685. | 4.0 | 213 |
| 308 | Probing Photocurrent Generation, Charge Transport, and Recombination Mechanisms in Mesostructured Hybrid Perovskite through Photoconductivity Measurements. Journal of Physical Chemistry Letters, 2015, 6, 4259-4264. | 4.6 | 28 |
| 309 | Highly efficient planar perovskite solar cells through band alignment engineering. Energy and Environmental Science, 2015, 8, 2928-2934. | 30.8 | 1,097 |
| 310 | Influence of Dye Architecture of Triphenylamine Based Organic Dyes on the Kinetics in Dye-Sensitized Solar Cells. Journal of Physical Chemistry C, 2015, 119, 21775-21783. | 3.1 | 35 |
| 311 | Direct light-induced polymerization of cobalt-based redox shuttles: an ultrafast way towards stable dye-sensitized solar cells. Chemical Communications, 2015, 51, 16308-16311. | 4.1 | 73 |
| 312 | Spectral splitting photovoltaics using perovskite and wideband dye-sensitized solar cells. Nature Communications, 2015, 6, 8834. | 12.8 | 122 |
| 313 | Integrated Design of Organic Hole Transport Materials for Efficient Solidâ€State Dyeâ€Sensitized Solar Cells. Advanced Energy Materials, 2015, 5, 1401185. | 19.5 | 59 |
| 314 | Chemistry and Light: The International Year of Light. Chimia, 2015, 69, 6. | 0.6 | 0 |
| 315 | Chemistry and Light: The International Year of Light. Chimia, 2015, 69, 6. | 0.6 | 0 |
| 316 | EFFECT OF THE CHROMOPHORES STRUCTURES ON THE PERFORMANCE OF SOLID-STATE DYE SENSITIZED SOLAR CELLS. Nano, 2014, 09, 1440005. | 1.0 | 7 |
| 317 | A versatile photoelectron spectrometer for pressures up to 30 mbar. Review of Scientific Instruments, 2014, 85, 075119. | 1.3 | 41 |
| 318 | Comparative Studies on Rigid Ï€ Linkerâ€Based Organic Dyes: Structureâ€"Property Relationships and Photovoltaic Performance. ChemSusChem, 2014, 7, 3396-3406. | 6.8 | 7 |
| 319 | Atomic and Electronic Structures of Interfaces in Dyeâ€Sensitized, Nanostructured Solar Cells. ChemPhysChem, 2014, 15, 1006-1017. | 2.1 | 19 |
| 320 | A green route and rational design for ZnO-based high-efficiency photovoltaics. Nanoscale, 2014, 6, 5093. | 5.6 | 7 |
| 321 | Solidâ€State Dyeâ€Sensitized Solar Cells Based on Poly(3,4â€ethylenedioxypyrrole) and Metalâ€Free Organic Dyes. ChemPhysChem, 2014, 15, 1043-1047. | 2.1 | 24 |
| 322 | A Simple 3,4â€Ethylenedioxythiophene Based Holeâ€Transporting Material for Perovskite Solar Cells. Angewandte Chemie - International Edition, 2014, 53, 4085-4088. | 13.8 | 379 |
| 323 | Infiltration of Spiro-MeOTAD hole transporting material into nanotubular TiO2 electrode for solid-state dye-sensitized solar cells. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2014, 187, 67-74. | 3.5 | 1 |
| 324 | Synthesis of Highly Effective Vanadium Nitride (VN) Peas as a Counter Electrode Catalyst in Dye-Sensitized Solar Cells. Journal of Physical Chemistry C, 2014, 118, 12625-12631. | 3.1 | 85 |

| # | Article | IF | Citations |
|---|---|---|---|
| 325 | Enhanced Performance of Supported HfO<sub>2</sub> Counter Electrodes for Redox Couples Used in Dyeâ€Sensitized Solar Cells. ChemSusChem, 2014, 7, 442-450. | 6.8 | 117 |
| 326 | Improved Morphology Control Using a Modified Two-Step Method for Efficient Perovskite Solar Cells. ACS Applied Materials &amp; Interfaces, 2014, 6, 18751-18757. | 8.0 | 62 |
| 327 | Fabrication of Efficient NiO Photocathodes Prepared via RDS with Novel Routes of Substrate Processing for <i>p</i>â€Type Dyeâ€Sensitized Solar Cells. ChemElectroChem, 2014, 1, 384-391. | 3.4 | 51 |
| 328 | Electron and hole transfer dynamics of a triarylamine-based dye with peripheral hole acceptors on TiO2 in the absence and presence of solvent. Physical Chemistry Chemical Physics, 2014, 16, 8019. | 2.8 | 38 |
| 329 | Triphenylamine Groups Improve Blocking Behavior of Phenoxazine Dyes in Cobaltâ€Electrolyteâ€Based Dyeâ€Sensitized Solar Cells. ChemPhysChem, 2014, 15, 3476-3483. | 2.1 | 17 |
| 330 | An organic hydrophilic dye for water-based dye-sensitized solar cells. Physical Chemistry Chemical Physics, 2014, 16, 19964-19971. | 2.8 | 43 |
| 331 | Tuning of Conductivity and Density of States of NiO Mesoporous Films Used in p-Type DSSCs. Journal of Physical Chemistry C, 2014, 118, 19556-19564. | 3.1 | 71 |
| 332 | Combination of Asymmetric Supercapacitor Utilizing Activated Carbon and Nickel Oxide with Cobalt Polypyridyl-Based Dye-Sensitized Solar Cell. Electrochimica Acta, 2014, 143, 390-397. | 5.2 | 61 |
| 333 | Poly(3,4-ethylenedioxythiophene) Hole-Transporting Material Generated by Photoelectrochemical Polymerization in Aqueous and Organic Medium for All-Solid-State Dye-Sensitized Solar Cells. Journal of Physical Chemistry C, 2014, 118, 16591-16601. | 3.1 | 48 |
| 334 | Ptâ€Free Counter Electrode for Dyeâ€Sensitized Solar Cells with High Efficiency. Advanced Materials, 2014, 26, 6210-6237. | 21.0 | 521 |
| 335 | Carbazoleâ€Based Holeâ€Transport Materials for Efficient Solidâ€State Dyeâ€Sensitized Solar Cells and Perovskite Solar Cells. Advanced Materials, 2014, 26, 6629-6634. | 21.0 | 369 |
| 336 | Probing the Optical Property and Electronic Structure of TiO<sub>2</sub>Nanomaterials for Renewable Energy Applications. Chemical Reviews, 2014, 114, 9662-9707. | 47.7 | 422 |
| 337 | The effect of dye coverage on the performance of dye-sensitized solar cells with a cobalt-based electrolyte. Physical Chemistry Chemical Physics, 2014, 16, 8503. | 2.8 | 55 |
| 338 | AgTFSI as pâ€Type Dopant for Efficient and Stable Solidâ€State Dyeâ€Sensitized and Perovskite Solar Cells. ChemSusChem, 2014, 7, 3252-3256. | 6.8 | 114 |
| 339 | Mesoporous TiO<sub>2</sub> Microbead Electrodes for Cobalt-Mediator-Based Dye-Sensitized Solar Cells. Journal of Physical Chemistry C, 2014, 118, 16472-16478. | 3.1 | 27 |
| 340 | Solvent Dependence of the Electronic Structure of Iâ€“ and I3â€“. Journal of Physical Chemistry B, 2014, 118, 3164-3174. | 2.6 | 16 |
| 341 | Mesoporous TiO2 microbead electrodes for solid state dye-sensitized solar cells. RSC Advances, 2014, 4, 50295-50300. | 3.6 | 10 |
| 342 | Enhanced Crystallinity in Organicâ€“Inorganic Lead Halide Perovskites on Mesoporous TiO<sub>2</sub> via Disorderâ€“Order Phase Transition. Chemistry of Materials, 2014, 26, 4466-4471. | 6.7 | 118 |

| # | ARTICLE | IF | CITATIONS |
|---|---|---|---|
| 343 | Understanding Interfacial Charge Transfer between Metallic PEDOT Counter Electrodes and a Cobalt Redox Shuttle in Dye-Sensitized Solar Cells. ACS Applied Materials &amp; Interfaces, 2014, 6, 2074-2079. | 8.0 | 44 |
| 344 | Holeâ€Transporting Small Molecules Based on Thiophene Cores for High Efficiency Perovskite Solar Cells. ChemSusChem, 2014, 7, 3420-3425. | 6.8 | 139 |
| 345 | Highly effective Pt/MoSi2 composite counter electrode catalyst for dye-sensitized solar cell. Journal of Power Sources, 2014, 263, 154-157. | 7.8 | 29 |
| 346 | Superior Catalytic Activity of Subâ€5â€…Î¼mâ€Thick Pt/SiC Films as Counter Electrodes for Dyeâ€Sensitized Solar Cells. ChemCatChem, 2014, 6, 1584-1588. | 3.7 | 56 |
| 347 | Dye adsorption on TiO2 electrodes studied using modulated photocurrent measurements. Thin Solid Films, 2014, 560, 10-13. | 1.8 | 5 |
| 348 | HIGH-EFFICIENT SOLID-STATE PEROVSKITE SOLAR CELL WITHOUT LITHIUM SALT IN THE HOLE TRANSPORT MATERIAL. Nano, 2014, 09, 1440001. | 1.0 | 34 |
| 349 | Carbon counter electrodes efficient catalysts for the reduction of Co(III) in cobalt mediated dye-sensitized solar cells. Polyhedron, 2014, 82, 154-157. | 2.2 | 9 |
| 350 | Enhancement of p-Type Dye-Sensitized Solar Cell Performance by Supramolecular Assembly of Electron Donor and Acceptor. Scientific Reports, 2014, 4, 4282. | 3.3 | 59 |
| 351 | Influence of the Annealing Atmosphere on the Performance of ZnO Nanowire Dye-Sensitized Solar Cells. Journal of Physical Chemistry C, 2013, 117, 16349-16356. | 3.1 | 74 |
| 352 | PEDOT counter electrodes for dye-sensitized solar cells prepared by aqueous micellar electrodeposition. Electrochimica Acta, 2013, 107, 45-51. | 5.2 | 131 |
| 353 | Notable catalytic activity of oxygen-vacancy-rich WO2.72 nanorod bundles as counter electrodes for dye-sensitized solar cells. Chemical Communications, 2013, 49, 7626. | 4.1 | 76 |
| 354 | Metal Oxide/Carbide/Carbon Nanocomposites: In Situ Synthesis, Characterization, Calculation, and their Application as an Efficient Counter Electrode Catalyst for Dyeâ€Sensitized Solar Cells. Advanced Energy Materials, 2013, 3, 1407-1412. | 19.5 | 157 |
| 355 | Ultrarapid Sonochemical Synthesis of ZnO Hierarchical Structures: From Fundamental Research to High Efficiencies up to 6.42% for Quasi-Solid Dye-Sensitized Solar Cells. Chemistry of Materials, 2013, 25, 1000-1012. | 6.7 | 124 |
| 356 | Using a two-step deposition technique to prepare perovskite (CH3NH3PbI3) for thin film solar cells based on ZrO2 and TiO2 mesostructures. RSC Advances, 2013, 3, 18762. | 3.6 | 405 |
| 357 | Efficient and stable CH3NH3PbI3-sensitized ZnO nanorod array solid-state solar cells. Nanoscale, 2013, 5, 11686. | 5.6 | 271 |
| 358 | Convergent/Divergent Synthesis of a Linkerâ€Varied Series of Dyes for Dyeâ€Sensitized Solar Cells Based on the D35 Donor. Advanced Energy Materials, 2013, 3, 1647-1656. | 19.5 | 103 |
| 359 | Linker Unit Modification of Triphenylamine-Based Organic Dyes for Efficient Cobalt Mediated Dye-Sensitized Solar Cells. Journal of Physical Chemistry C, 2013, 117, 21029-21036. | 3.1 | 79 |
| 360 | Efficient solid state dye-sensitized solar cells based on an oligomer hole transport material and an organic dye. Journal of Materials Chemistry A, 2013, 1, 14467. | 10.3 | 67 |

| # | Article | IF | Citations |
|---|---|---|---|
| 361 | Highly catalytic carbon nanotube counter electrode on plastic for dye solar cells utilizing cobalt-based redox mediator. Electrochimica Acta, 2013, 111, 206-209. | 5.2 | 21 |
| 362 | Enhanced Photovoltaic Performance of Nanowire Dye-Sensitized Solar Cells Based on Coaxial TiO<sub>2</sub>@TiO Heterostructures with a Cobalt(II/III) Redox Electrolyte. ACS Applied Materials &amp; Interfaces, 2013, 5, 9872-9877. | 8.0 | 24 |
| 363 | Neutral, Polaron, and Bipolaron States in PEDOT Prepared by Photoelectrochemical Polymerization and the Effect on Charge Generation Mechanism in the Solid-State Dye-Sensitized Solar Cell. Journal of Physical Chemistry C, 2013, 117, 22484-22491. | 3.1 | 52 |
| 364 | Integration of solid-state dye-sensitized solar cell with metal oxide charge storage material into photoelectrochemical capacitor. Journal of Power Sources, 2013, 234, 91-99. | 7.8 | 83 |
| 365 | Photovoltage enhancement from cyanobiphenyl liquid crystals and 4-tert-butylpyridine in Co(ii/iii) mediated dye-sensitized solar cells. Chemical Communications, 2013, 49, 9101. | 4.1 | 20 |
| 366 | Photoinduced ultrafast dynamics of the triphenylamine-based organic sensitizer D35 on TiO2, ZrO2 and in acetonitrile. Physical Chemistry Chemical Physics, 2013, 15, 3906. | 2.8 | 42 |
| 367 | Collective hydrogen-bond dynamics dictates the electronic structure of aqueous I3â˜’. Physical Chemistry Chemical Physics, 2013, 15, 20189. | 2.8 | 31 |
| 368 | Incompletely solvated ionic liquid mixtures as electrolyte solvents for highly stable dye-sensitized solar cells. RSC Advances, 2013, 3, 1896-1901. | 3.6 | 30 |
| 369 | Dye sensitised solar cells with nickel oxide photocathodes prepared via scalable microwave sintering. Physical Chemistry Chemical Physics, 2013, 15, 2411. | 2.8 | 71 |
| 370 | Development of Solid-State Photo-Supercapacitor by Coupling Dye-Sensitized Solar Cell Utilizing Conducting Polymer Charge Relay with Proton-Conducting Membrane Based Electrochemical Capacitor. ECS Transactions, 2013, 50, 235-244. | 0.5 | 16 |
| 371 | New donorâ€“Ï€â€“acceptor sensitizers containing 5H-[1,2,5]thiadiazolo [3,4-f]isoindole-5,7(6H)-dione and 6H-pyrrolo[3,4-g]quinoxaline-6,8(7H)-dione units. Chemical Communications, 2013, 49, 2409. | 4.1 | 42 |
| 372 | Effect of Different Hole Transport Materials on Recombination in CH<sub>3</sub>NH<sub>3</sub>PbI<sub>3</sub> Perovskite-Sensitized Mesoscopic Solar Cells. Journal of Physical Chemistry Letters, 2013, 4, 1532-1536. | 4.6 | 472 |
| 373 | Ptâ€like Behavior of Highâ€Performance Counter Electrodes Prepared from Binary Tantalum Compounds Showing High Electrocatalytic Activity for Dyeâ€Sensitized Solar Cells. ChemSusChem, 2013, 6, 411-416. | 6.8 | 132 |
| 374 | Physicochemical Characterization of Phosphopeptide/Titanium Dioxide Interactions Employing the Quartz Crystal Microbalance Technique. Journal of Physical Chemistry B, 2013, 117, 2019-2025. | 2.6 | 13 |
| 375 | Cobalt(II/III) Redox Electrolyte in ZnO Nanowire-Based Dye-Sensitized Solar Cells. ACS Applied Materials &amp; Interfaces, 2013, 5, 1902-1906. | 8.0 | 64 |
| 376 | Initial Light Soaking Treatment Enables Hole Transport Material to Outperform Spiro-OMeTAD in Solid-State Dye-Sensitized Solar Cells. Journal of the American Chemical Society, 2013, 135, 7378-7385. | 13.7 | 138 |
| 377 | Regeneration and recombination kinetics in cobalt polypyridine based dye-sensitized solar cells, explained using Marcus theory. Physical Chemistry Chemical Physics, 2013, 15, 7087. | 2.8 | 153 |
| 378 | Dye-Sensitized Photoelectrochemical Cells. , 2013, , 385-441. |  | 2 |

| # | Article | IF | Citations |
|---|---|---|---|
| 379 | Solidâ€State Synthesis of ZnO Nanostructures for Quasiâ€Solid Dyeâ€Sensitized Solar Cells with High Efficiencies up to 6.46%. Advanced Materials, 2013, 25, 4413-4419. | 21.0 | 72 |
| 380 | Influence of 4-tert-Butylpyridine in DSCs with CoII/III Redox Mediator. Journal of Physical Chemistry C, 2013, 117, 15515-15522. | 3.1 | 42 |
| 381 | New Approach for Preparation of Efficient Solid-State Dye-Sensitized Solar Cells by Photoelectrochemical Polymerization in Aqueous Micellar Solution. Journal of Physical Chemistry Letters, 2013, 4, 4026-4031. | 4.6 | 29 |
| 382 | Dye-sensitized Solar Cells Employing a SnO2-TiO2 Core-shell Structure Made by Atomic Layer Deposition. Chimia, 2013, 67, 142. | 0.6 | 17 |
| 383 | Development of an organic redox couple and organic dyes for aqueous dye-sensitized solar cells. Energy and Environmental Science, 2012, 5, 9752. | 30.8 | 55 |
| 384 | Role of the Triiodide/Iodide Redox Couple in Dye Regeneration in p-Type Dye-Sensitized Solar Cells. Langmuir, 2012, 28, 6485-6493. | 3.5 | 92 |
| 385 | Effect of the Preparation Procedure on the Morphology of Thin TiO<sub>2</sub> Films and Their Device Performance in Small-Molecule Bilayer Hybrid Solar Cells. ACS Applied Materials &amp; Interfaces, 2012, 4, 5997-6004. | 8.0 | 25 |
| 386 | Recent advances and future directions to optimize the performances of p-type dye-sensitized solar cells. Coordination Chemistry Reviews, 2012, 256, 2414-2423. | 18.8 | 265 |
| 387 | Defect minimization and morphology optimization in TiO2 nanotube thin films, grown on transparent conducting substrate, for dye synthesized solar cell application. Thin Solid Films, 2012, 522, 71-78. | 1.8 | 12 |
| 388 | Several highly efficient catalysts for Pt-free and FTO-free counter electrodes of dye-sensitized solar cells. Journal of Materials Chemistry, 2012, 22, 4009. | 6.7 | 73 |
| 389 | Effect of Cation on Dye Regeneration Kinetics of N719-Sensitized TiO2 Films in Acetonitrile-Based and Ionic-Liquid-Based Electrolytes Investigated by Scanning Electrochemical Microscopy. Journal of Physical Chemistry C, 2012, 116, 4316-4323. | 3.1 | 39 |
| 390 | Phenoxazine dyes in solid-state dye-sensitized solar cells. Journal of Photochemistry and Photobiology A: Chemistry, 2012, 239, 55-59. | 3.9 | 10 |
| 391 | Excitation Energy Dependent Charge Separation at Hole-Transporting Dye/TiO<sub>2</sub> Hetero Interface. Journal of Physical Chemistry C, 2012, 116, 21148-21156. | 3.1 | 4 |
| 392 | Mesoporous Dye-Sensitized Solar Cells. , 2012, , 481-496. |  | 2 |
| 393 | Functionalized Graphene Sheets as a Versatile Replacement for Platinum in Dye-Sensitized Solar Cells. ACS Applied Materials &amp; Interfaces, 2012, 4, 2794-2800. | 8.0 | 204 |
| 394 | Combining a Small Hole-Conductor Molecule for Efficient Dye Regeneration and a Hole-Conducting Polymer in a Solid-State Dye-Sensitized Solar Cell. Journal of Physical Chemistry C, 2012, 116, 18070-18078. | 3.1 | 36 |
| 395 | Photo-induced electron transfer study of D-Ï€-A sensitizers with different type of anchoring groups for dye-sensitized solar cells. RSC Advances, 2012, 2, 6011. | 3.6 | 8 |
| 396 | Light-induced rearrangements of chemisorbed dyes on anatase(101). Physical Chemistry Chemical Physics, 2012, 14, 10780. | 2.8 | 18 |

| # | Article | IF | Citations |
|---|---|---|---|
| 397 | High-performance phosphide/carbon counter electrode for both iodide and organic redox couples in dye-sensitized solar cells. Journal of Materials Chemistry, 2012, 22, 11121. | 6.7 | 129 |
| 398 | Economical Pt-Free Catalysts for Counter Electrodes of Dye-Sensitized Solar Cells. Journal of the American Chemical Society, 2012, 134, 3419-3428. | 13.7 | 798 |
| 399 | CVD-grown TiO2 particles as light scattering structures in dye-sensitized solar cells. RSC Advances, 2012, 2, 12278. | 3.6 | 16 |
| 400 | Comparing spiro-OMeTAD and P3HT hole conductors in efficient solid state dye-sensitized solar cells. Physical Chemistry Chemical Physics, 2012, 14, 779-789. | 2.8 | 118 |
| 401 | Trends in patent applications for dye-sensitized solar cells. Energy and Environmental Science, 2012, 5, 7376. | 30.8 | 26 |
| 402 | Optimization of the Performance of Dyeâ€Sensitized Solar Cells Based on Ptâ€Like TiC Counter Electrodes. European Journal of Inorganic Chemistry, 2012, 2012, 3557-3561. | 2.0 | 29 |
| 403 | An Autocatalytic Factor in the Loss of Efficiency in Dyeâ€Sensitized Solar Cells. ChemCatChem, 2012, 4, 1255-1258. | 3.7 | 9 |
| 404 | Visible light driven hydrogen production from a photo-active cathode based on a molecular catalyst and organic dye-sensitized p-type nanostructured NiO. Chemical Communications, 2012, 48, 988-990. | 4.1 | 237 |
| 405 | Brief Overview of Dye-Sensitized Solar Cells. Ambio, 2012, 41, 151-155. | 5.5 | 63 |
| 406 | Engineering of highly efficient tetrahydroquinoline sensitizers for dye-sensitized solar cells. Tetrahedron, 2012, 68, 552-558. | 1.9 | 42 |
| 407 | A thiolate/disulfide ionic liquid electrolyte for organic dye-sensitized solar cells based on Pt-free counter electrodes. Chemical Communications, 2011, 47, 10124. | 4.1 | 54 |
| 408 | Photomodulated Voltammetry of Iodide/Triiodide Redox Electrolytes and Its Relevance to Dye-Sensitized Solar Cells. Journal of Physical Chemistry Letters, 2011, 2, 3016-3020. | 4.6 | 95 |
| 409 | Development of Hybrid Organic-Inorganic Materials for Efficient Charging/Discharging in Electrochemical and Photoelectrochemical Capacitors. ECS Transactions, 2011, 35, 93-102. | 0.5 | 11 |
| 410 | Preventing Dye Aggregation on ZnO by Adding Water in the Dye-Sensitization Process. Journal of Physical Chemistry C, 2011, 115, 19274-19279. | 3.1 | 40 |
| 411 | Cobalt Polypyridyl-Based Electrolytes for p-Type Dye-Sensitized Solar Cells. Journal of Physical Chemistry C, 2011, 115, 9772-9779. | 3.1 | 115 |
| 412 | In Situ Synthesized Economical Tungsten Dioxide Imbedded in Mesoporous Carbon for Dye-Sensitized Solar Cells As Counter Electrode Catalyst. Journal of Physical Chemistry C, 2011, 115, 22598-22602. | 3.1 | 64 |
| 413 | Mesoporous TiO<sub>2</sub>-Based Experimental Layout for On-Target Enrichment and Separation of Multi- and Monophosphorylated Peptides Prior to Analysis with Matrix-Assisted Laser Desorption-Ionization Mass Spectrometry. Analytical Chemistry, 2011, 83, 761-766. | 6.5 | 30 |
| 414 | Determination of the Electron Diffusion Length in Dye-Sensitized Solar Cells by Substrate Contact Patterning. Journal of Physical Chemistry C, 2011, 115, 13932-13937. | 3.1 | 17 |

| # | ARTICLE | IF | CITATIONS |
|---|---|---|---|
| 415 | Economical and effective sulfide catalysts for dye-sensitized solar cells as counter electrodes. Physical Chemistry Chemical Physics, 2011, 13, 19298. | 2.8 | 306 |
| 416 | Efficient organic dye sensitized solar cells based on modified sulfide/polysulfide electrolyte. Journal of Materials Chemistry, 2011, 21, 5573. | 6.7 | 32 |
| 417 | Energy alignment and surface dipoles of rylenedyes adsorbed to TiO2nanoparticles. Physical Chemistry Chemical Physics, 2011, 13, 14767. | 2.8 | 26 |
| 418 | Effects of Driving Forces for Recombination and Regeneration on the Photovoltaic Performance of Dye-Sensitized Solar Cells using Cobalt Polypyridine Redox Couples. Journal of Physical Chemistry C, 2011, 115, 21500-21507. | 3.1 | 264 |
| 419 | Characterization of the Interface Properties and Processes in Solid State Dye-Sensitized Solar Cells Employing a Perylene Sensitizer. Journal of Physical Chemistry C, 2011, 115, 4345-4358. | 3.1 | 58 |
| 420 | Modifying organic phenoxazine dyes for efficient dye-sensitized solar cells. Journal of Materials Chemistry, 2011, 21, 12462. | 6.7 | 79 |
| 421 | A novel catalyst of WO2 nanorod for the counter electrode of dye-sensitized solar cells. Chemical Communications, 2011, 47, 4535. | 4.1 | 346 |
| 422 | Two flexible counter electrodes based on molybdenum and tungsten nitrides for dye-sensitized solar cells. Journal of Materials Chemistry, 2011, 21, 10761. | 6.7 | 160 |
| 423 | Contribution from a hole-conducting dye to the photocurrent in solid-state dye-sensitized solar cells. Physical Chemistry Chemical Physics, 2011, 13, 20172. | 2.8 | 34 |
| 424 | Investigation on the dynamics of electron transport and recombination in TiO2 nanotube/nanoparticle composite electrodes for dye-sensitized solar cells. Physical Chemistry Chemical Physics, 2011, 13, 21487. | 2.8 | 29 |
| 425 | Novel counter electrode catalysts of niobium oxides supersede Pt for dye-sensitized solar cells. Chemical Communications, 2011, 47, 11489. | 4.1 | 151 |
| 426 | Highly Efficient CdS Quantum Dot-Sensitized Solar Cells Based on a Modified Polysulfide Electrolyte. Journal of the American Chemical Society, 2011, 133, 8458-8460. | 13.7 | 257 |
| 427 | Organic Redox Couples and Organic Counter Electrode for Efficient Organic Dye-Sensitized Solar Cells. Journal of the American Chemical Society, 2011, 133, 9413-9422. | 13.7 | 227 |
| 428 | Comparative Study between Dye-Sensitized and CdS Quantum-Dots-Sensitized TiO<sub>2</sub> Solar Cells Using Photoinduced Absorption Spectroscopy. Advances in OptoElectronics, 2011, 2011, 1-5. | 0.6 | 0 |
| 429 | -Quantum-Dot Sensitized Metal Oxide Photoelectrodes: Photoelectrochemistry and Photoinduced Absorption Spectroscopy. Advances in OptoElectronics, 2011, 2011, 1-6. | 0.6 | 2 |
| 430 | Energy level alignment in TiO2/dipole-molecule/P3HT interfaces. Chemical Physics Letters, 2011, 515, 146-150. | 2.6 | 26 |
| 431 | Synthesis, photophysical and photovoltaic investigations of acceptor-functionalized perylene monoimide dyes for nickel oxide p-type dye-sensitized solar cells. Energy and Environmental Science, 2011, 4, 2075. | 30.8 | 142 |
| 432 | Investigation of the photoinduced electron injection processes for p-type triphenylamine-sensitized solar cells. Energy and Environmental Science, 2011, 4, 4537. | 30.8 | 63 |

| # | ARTICLE | IF | CITATIONS |
|---|---|---|---|
| 433 | Highly Efficient Solidâ€State Dyeâ€Sensitized Solar Cells Based on Triphenylamine Dyes. Advanced Functional Materials, 2011, 21, 2944-2952. | 14.9 | 178 |
| 434 | A Doubleâ€Band Tandem Organic Dyeâ€sensitized Solar Cell with an Efficiency of 11.5â€‰%. ChemSusChem, 2011, 4, 609-612. | 6.8 | 33 |
| 435 | Molecular Design to Improve the Performance of Donorâ€"Ï€ Acceptor Nearâ€IR Organic Dyeâ€Sensitized Solar Cells. ChemSusChem, 2011, 4, 1601-1605. | 6.8 | 30 |
| 436 | Lowâ€Cost Molybdenum Carbide and Tungsten Carbide Counter Electrodes for Dyeâ€Sensitized Solar Cells. Angewandte Chemie - International Edition, 2011, 50, 3520-3524. | 13.8 | 552 |
| 437 | Phenoxazine Dyes for Dyeâ€Sensitized Solar Cells: Relationship Between Molecular Structure and Electron Lifetime. Chemistry - A European Journal, 2011, 17, 6415-6424. | 3.3 | 107 |
| 438 | Efficient infiltration of low molecular weight polymer in nanoporous TiO2. Chemical Physics Letters, 2011, 502, 225-230. | 2.6 | 10 |
| 439 | Influence of nitrogen dopants on N-doped TiO2 electrodes and their applications in dye-sensitized solar cells. Electrochimica Acta, 2011, 56, 4611-4617. | 5.2 | 86 |
| 440 | Highly efficient dye-sensitized solar cells based on nitrogen-doped titania with excellent stability. Journal of Photochemistry and Photobiology A: Chemistry, 2011, 219, 180-187. | 3.9 | 57 |
| 441 | Electric Characteristics of MgO-Doped TiO<sub>2</sub> Nanocrystalline Film in Dye-Sensitized Solar Cells. Advanced Materials Research, 2011, 236-238, 2106-2109. | 0.3 | 1 |
| 442 | Design of Organic Dyes and Cobalt Polypyridine Redox Mediators for High-Efficiency Dye-Sensitized Solar Cells. Journal of the American Chemical Society, 2010, 132, 16714-16724. | 13.7 | 1,000 |
| 443 | Dye-Sensitized Solar Cells. Chemical Reviews, 2010, 110, 6595-6663. | 47.7 | 8,072 |
| 444 | A photoelectrochemical device for visible light driven water splitting by a molecular ruthenium catalyst assembled on dye-sensitized nanostructured TiO2. Chemical Communications, 2010, 46, 7307. | 4.1 | 232 |
| 445 | Comparison of Trapâ€state Distribution and Carrier Transport in Nanotubular and Nanoparticulate TiO<sub>2</sub> Electrodes for Dyeâ€Sensitized Solar Cells. ChemPhysChem, 2010, 11, 2140-2145. | 2.1 | 45 |
| 446 | Regeneration of Oxidized Organic Photoâ€Sensitizers in GrÃtzel Solar Cells: Quantumâ€Chemical Portrait of a General Mechanism. ChemPhysChem, 2010, 11, 1858-1862. | 2.1 | 38 |
| 447 | Doubleâ€Layered NiO Photocathodes for pâ€Type DSSCs with Record IPCE. Advanced Materials, 2010, 22, 1759-1762. | 21.0 | 303 |
| 448 | Tuning the HOMO Energy Levels of Organic Dyes for Dyeâ€Sensitized Solar Cells Based on Br<sup>â^’</sup>/Br<sub>3</sub><sup>â^’</sup> Electrolytes. Chemistry - A European Journal, 2010, 16, 13127-13138. | 3.3 | 112 |
| 449 | Efficient Organicâ€Dyeâ€Sensitized Solar Cells Based on an Iodineâ€Free Electrolyte. Angewandte Chemie - International Edition, 2010, 49, 7328-7331. | 13.8 | 112 |
| 450 | Interpretation of small-modulation photocurrent transients in dye-sensitized solar cells â€" A film thickness study. Journal of Electroanalytical Chemistry, 2010, 646, 91-99. | 3.8 | 23 |

| # | ARTICLE | IF | CITATIONS |
|---|---|---|---|
| 451 | Parallelâ€connected monolithic dyeâ€sensitised solar modules. Progress in Photovoltaics: Research and Applications, 2010, 18, 340-345. | 8.1 | 35 |
| 452 | Characterization of Surface Passivation by Poly(methylsiloxane) for Dye-Sensitized Solar Cells Employing the Ferrocene Redox Couple. Journal of Physical Chemistry C, 2010, 114, 10551-10558. | 3.1 | 84 |
| 453 | Synthesis and Mechanistic Studies of Organic Chromophores with Different Energy Levels for p-Type Dye-Sensitized Solar Cells. Journal of Physical Chemistry C, 2010, 114, 4738-4748. | 3.1 | 174 |
| 454 | Bilayer Hybrid Solar Cells Based on Triphenylamineâˆ'Thienylenevinylene Dye and TiO2. Journal of Physical Chemistry C, 2010, 114, 11659-11664. | 3.1 | 27 |
| 455 | Monitoring N719 Dye Configurations on (1 Ã—n)-Reconstructed Anatase (100) by Means of STM: Reversible Configurational Changes upon Illumination. Langmuir, 2010, 26, 13236-13244. | 3.5 | 17 |
| 456 | Optimized Protocol for On-Target Phosphopeptide Enrichment Prior to Matrix-Assisted Laser Desorptionâˆ'Ionization Mass Spectrometry Using Mesoporous Titanium Dioxide. Analytical Chemistry, 2010, 82, 4577-4583. | 6.5 | 39 |
| 457 | Surface Molecular Quantification and Photoelectrochemical Characterization of Mixed Organic Dye and Coadsorbent Layers on TiO<sub>2</sub> for Dye-Sensitized Solar Cells. Journal of Physical Chemistry C, 2010, 114, 11903-11910. | 3.1 | 59 |
| 458 | Influence of Triple Bonds as Ï€-Spacer Units in Metal-Free Organic Dyes for Dye-Sensitized Solar Cells. Journal of Physical Chemistry C, 2010, 114, 11305-11313. | 3.1 | 134 |
| 459 | How the Nature of Triphenylamine-Polyene Dyes in Dye-Sensitized Solar Cells Affects the Open-Circuit Voltage and Electron Lifetimes. Langmuir, 2010, 26, 2592-2598. | 3.5 | 359 |
| 460 | Molecular Design of Anthracene-Bridged Metal-Free Organic Dyes for Efficient Dye-Sensitized Solar Cells. Journal of Physical Chemistry C, 2010, 114, 9101-9110. | 3.1 | 216 |
| 461 | The Influence of Local Electric Fields on Photoinduced Absorption in Dye-Sensitized Solar Cells. Journal of the American Chemical Society, 2010, 132, 9096-9101. | 13.7 | 196 |
| 462 | Structural Modification of Organic Dyes for Efficient Coadsorbent-Free Dye-Sensitized Solar Cells. Journal of Physical Chemistry C, 2010, 114, 2799-2805. | 3.1 | 120 |
| 463 | Distance and Driving Force Dependencies of Electron Injection and Recombination Dynamics in Organic Dye-Sensitized Solar Cellsâ€. Journal of Physical Chemistry B, 2010, 114, 14358-14363. | 2.6 | 63 |
| 464 | A Lightâ€Resistant Organic Sensitizer for Solarâ€Cell Applications. Angewandte Chemie - International Edition, 2009, 48, 1576-1580. | 13.8 | 223 |
| 465 | The Effect of UV-Irradiation (under Short-Circuit Condition) on Dye-Sensitized Solar Cells Sensitized with a Ru-Complex Dye Functionalized with a (diphenylamino)Styryl-Thiophen Group. International Journal of Photoenergy, 2009, 2009, 1-9. | 2.5 | 4 |
| 466 | Porous Oneâ€Dimensional Photonic Crystals Improve the Powerâ€Conversion Efficiency of Dyeâ€Sensitized Solar Cells. Advanced Materials, 2009, 21, 764-770. | 21.0 | 249 |
| 467 | High Incident Photonâ€toâ€Current Conversion Efficiency of pâ€Type Dyeâ€Sensitized Solar Cells Based on NiO and Organic Chromophores. Advanced Materials, 2009, 21, 2993-2996. | 21.0 | 173 |
| 468 | A pâ€Type NiOâ€Based Dyeâ€Sensitized Solar Cell with an Openâ€Circuit Voltage of 0.35â€…V. Angewandte Chemie - International Edition, 2009, 48, 4402-4405. | 13.8 | 257 |

| # | ARTICLE | IF | CITATIONS |
|---|---|---|---|
| 469 | Efficient organic tandem cell combining a solid state dye-sensitized and a vacuum deposited bulk heterojunction solar cell. Solar Energy Materials and Solar Cells, 2009, 93, 1896-1899. | 6.2 | 37 |
| 470 | Photoelectrochemical studies of ionic liquid-containing solar cells sensitized with different polypyridylâ€“ruthenium complexes. Polyhedron, 2009, 28, 757-762. | 2.2 | 15 |
| 471 | Organic chromophore-sensitized ZnO solar cells: Electrolyte-dependent dye desorption and band-edge shifts. Journal of Photochemistry and Photobiology A: Chemistry, 2009, 202, 159-163. | 3.9 | 26 |
| 472 | Photoinduced electron transfer from a terrylene dye to TiO2: Quantification of band edge shift effects. Chemical Physics, 2009, 357, 124-131. | 1.9 | 19 |
| 473 | Characteristics of the Iodide/Triiodide Redox Mediator in Dye-Sensitized Solar Cells. Accounts of Chemical Research, 2009, 42, 1819-1826. | 15.6 | 1,303 |
| 474 | A Broadly Absorbing Perylene Dye for Solid-State Dye-Sensitized Solar Cells. Journal of Physical Chemistry C, 2009, 113, 14595-14597. | 3.1 | 80 |
| 475 | Rhodaninedyes for dye-sensitized solar cellsâ€‰:â€‰ spectroscopy, energy levels and photovoltaic performance. Physical Chemistry Chemical Physics, 2009, 11, 133-141. | 2.8 | 178 |
| 476 | Tuning of phenoxazine chromophores for efficient organic dye-sensitized solar cells. Chemical Communications, 2009, , 6288. | 4.1 | 156 |
| 477 | Symmetric and unsymmetric donor functionalization. comparing structural and spectral benefits of chromophores for dye-sensitized solar cells. Journal of Materials Chemistry, 2009, 19, 7232. | 6.7 | 177 |
| 478 | A Study of the Interactions between Iâˆ’/I3âˆ’ Redox Mediators and Organometallic Sensitizing Dyes in Solar Cells. Journal of Physical Chemistry C, 2009, 113, 783-790. | 3.1 | 101 |
| 479 | Efficient near infrared Dâ€“Ï€â€“A sensitizers with lateral anchoring group for dye-sensitized solar cells. Chemical Communications, 2009, , 4031. | 4.1 | 112 |
| 480 | Two Novel Carbazole Dyes for Dye-Sensitized Solar Cells with Open-Circuit Voltages up to 1 V Based on Br<sup>âˆ’</sup>/Br<sub>3</sub><sup>âˆ’</sup> Electrolytes. Organic Letters, 2009, 11, 5542-5545. | 4.6 | 166 |
| 481 | Highly Efficient Organic Sensitizers for Solid-State Dye-Sensitized Solar Cells. Journal of Physical Chemistry C, 2009, 113, 16816-16820. | 3.1 | 91 |
| 482 | Effect of Anchoring Group on Electron Injection and Recombination Dynamics in Organic Dye-Sensitized Solar Cells. Journal of Physical Chemistry C, 2009, 113, 3881-3886. | 3.1 | 185 |
| 483 | A metal-free â€œblack dyeâ€•for panchromatic dye-sensitized solar cells. Energy and Environmental Science, 2009, 2, 674. | 30.8 | 153 |
| 484 | Dye Regeneration by Spiro-MeOTAD in Solid State Dye-Sensitized Solar Cells Studied by Photoinduced Absorption Spectroscopy and Spectroelectrochemistry. Journal of Physical Chemistry C, 2009, 113, 6275-6281. | 3.1 | 103 |
| 485 | A comparative study of a polyene-diphenylaniline dye and Ru(dcbpy)2(NCS)2 in electrolyte-based and solid-state dye-sensitized solar cells. Thin Solid Films, 2008, 516, 7214-7217. | 1.8 | 18 |
| 486 | A Triphenylamine Dye Model for the Study of Intramolecular Energy Transfer and Charge Transfer in Dyeâ€•Sensitized Solar Cells. Advanced Functional Materials, 2008, 18, 3461-3468. | 14.9 | 131 |

| # | ARTICLE | IF | CITATIONS |
|---|---|---|---|
| 487 | Electrochemical aspects of display technology based on nanostructured titanium dioxide with attached viologen chromophores. Electrochimica Acta, 2008, 53, 4065-4071. | 5.2 | 47 |
| 488 | Photoinduced absorption spectroscopy as a tool in the study of dye-sensitized solar cells. Inorganica Chimica Acta, 2008, 361, 729-734. | 2.4 | 86 |
| 489 | Design of an Organic Chromophore for P-Type Dye-Sensitized Solar Cells. Journal of the American Chemical Society, 2008, 130, 8570-8571. | 13.7 | 371 |
| 490 | Molecular Engineering of Organic Sensitizers for Dye-Sensitized Solar Cell Applications. Journal of the American Chemical Society, 2008, 130, 6259-6266. | 13.7 | 625 |
| 491 | Improved Photon-to-Current Conversion Efficiency with a Nanoporous p-Type NiO Electrode by the Use of a Sensitizer-Acceptor Dyad. Journal of Physical Chemistry C, 2008, 112, 1721-1728. | 3.1 | 173 |
| 492 | Coumarin 343âˆ’NiO Films as Nanostructured Photocathodes in Dye-Sensitized Solar Cells: Ultrafast Electron Transfer, Effect of the I<sub>3</sub><sup>âˆ’</sup>/I<sup>âˆ’</sup> Redox Couple and Mechanism of Photocurrent Generation. Journal of Physical Chemistry C, 2008, 112, 9530-9537. | 3.1 | 126 |
| 493 | Effect of Different Dye Baths and Dye-Structures on the Performance of Dye-Sensitized Solar Cells Based on Triphenylamine Dyes. Journal of Physical Chemistry C, 2008, 112, 11023-11033. | 3.1 | 432 |
| 494 | Spectral Characteristics of Light Harvesting, Electron Injection, and Steady-State Charge Collection in Pressed TiO<sub>2</sub>Dye Solar Cells. Journal of Physical Chemistry C, 2008, 112, 5623-5637. | 3.1 | 163 |
| 495 | Low-temperature TiO<sub>2</sub> Films for Dye-sensitized Solar Cells: Factors Affecting Energy Conversion Efficiency. Journal of Physical Chemistry C, 2008, 112, 10021-10026. | 3.1 | 35 |
| 496 | Tailoring mixed-valence CoIII/FeII complexes for their potential use as sensitizers in dye sensitized solar cells. New Journal of Chemistry, 2008, 32, 705. | 2.8 | 28 |
| 497 | Influence of Ï€-Conjugation Units in Organic Dyes for Dye-Sensitized Solar Cells. Journal of Physical Chemistry C, 2007, 111, 1853-1860. | 3.1 | 160 |
| 498 | Comparison of Dye-Sensitized ZnO and TiO2Solar Cells:â€‰ Studies of Charge Transport and Carrier Lifetime. Journal of Physical Chemistry C, 2007, 111, 1035-1041. | 3.1 | 501 |
| 499 | Electronic and Molecular Surface Structure of a Polyeneâˆ’Diphenylaniline Dye Adsorbed from Solution onto Nanoporous TiO2. Journal of Physical Chemistry C, 2007, 111, 8580-8586. | 3.1 | 61 |
| 500 | Intramolecular Charge-Transfer Tuning of Perylenes:â€‰ Spectroscopic Features and Performance in Dye-Sensitized Solar Cells. Journal of Physical Chemistry C, 2007, 111, 15137-15140. | 3.1 | 225 |
| 501 | Modification of Nanostructured TiO<sub>2</sub> Electrodes by Electrochemical Al<sup>3+</sup> Insertion:â€‰ Effects on Dye-Sensitized Solar Cell Performance. Journal of Physical Chemistry C, 2007, 111, 13267-13274. | 3.1 | 59 |
| 502 | Electrolytes for Dye-Sensitized Solar Cells Based on Interhalogen Ionic Salts and Liquids. Inorganic Chemistry, 2007, 46, 3566-3575. | 4.0 | 73 |
| 503 | Pores in Nanostructured TiO2Films. Size Distribution and Pore Permeability. Journal of Physical Chemistry C, 2007, 111, 7605-7611. | 3.1 | 15 |
| 504 | On the Influence of Anions in Binary Ionic Liquid Electrolytes for Monolithic Dye-Sensitized Solar Cells. Journal of Physical Chemistry C, 2007, 111, 13261-13266. | 3.1 | 54 |

| # | ARTICLE | IF | CITATIONS |
|---|---|---|---|
| 505 | Effect of Tetrahydroquinoline Dyes Structure on the Performance of Organic Dye-Sensitized Solar Cells. Chemistry of Materials, 2007, 19, 4007-4015. | 6.7 | 302 |
| 506 | Phenothiazine derivatives for efficient organic dye-sensitized solar cells. Chemical Communications, 2007, , 3741. | 4.1 | 446 |
| 507 | Tetrachelate Porphyrin Chromophores for Metal Oxide Semiconductor Sensitization:Â Effect of the Spacer Length and Anchoring Group Position. Journal of the American Chemical Society, 2007, 129, 4655-4665. | 13.7 | 367 |
| 508 | Photoelectrochemistry of Mesoporous NiO Electrodes in Iodide/Triiodide Electrolytes. Journal of Physical Chemistry C, 2007, 111, 17455-17458. | 3.1 | 133 |
| 509 | Nanostructured Zinc Stannate as Semiconductor Working Electrodes for Dye-Sensitized Solar Cells. Journal of Physical Chemistry C, 2007, 111, 5549-5556. | 3.1 | 143 |
| 510 | Crystal formation involving 1-methylbenzimidazole in iodide/triiodide electrolytes for dye-sensitized solar cells. Solar Energy Materials and Solar Cells, 2007, 91, 1062-1065. | 6.2 | 34 |
| 511 | Anthraquinone dyes as photosensitizers for dye-sensitized solar cells. Solar Energy Materials and Solar Cells, 2007, 91, 1863-1871. | 6.2 | 57 |
| 512 | The monolithic multicell: a tool for testing material components in dye-sensitized solar cells. Progress in Photovoltaics: Research and Applications, 2007, 15, 113-121. | 8.1 | 59 |
| 513 | Tuning the HOMO and LUMO Energy Levels of Organic Chromophores for Dye Sensitized Solar Cells. Journal of Organic Chemistry, 2007, 72, 9550-9556. | 3.2 | 576 |
| 514 | The influence of cations on charge accumulation in dye-sensitized solar cells. Journal of Electroanalytical Chemistry, 2007, 609, 55-60. | 3.8 | 64 |
| 515 | Interpretation of Apparent Activation Energies for Electron Transport in Dye-sensitized Nanocrystalline Solar Cells. Journal of Physical Chemistry B, 2006, 110, 13694-13699. | 2.6 | 58 |
| 516 | Fast Electron Transport in Metal Organic Vapor Deposition Grown Dye-sensitized ZnO Nanorod Solar Cells. Journal of Physical Chemistry B, 2006, 110, 16159-16161. | 2.6 | 411 |
| 517 | Recombination and Transport Processes in Dye-Sensitized Solar Cells Investigated under Working Conditions. Journal of Physical Chemistry B, 2006, 110, 17715-17718. | 2.6 | 142 |
| 518 | Quantification of the Effect of 4-tert-Butylpyridine Addition to I-/I3-Redox Electrolytes in Dye-Sensitized Nanostructured TiO2Solar Cells. Journal of Physical Chemistry B, 2006, 110, 13144-13150. | 2.6 | 557 |
| 519 | A novel organic chromophore for dye-sensitized nanostructured solar cells. Chemical Communications, 2006, , 2245. | 4.1 | 651 |
| 520 | Electron transport and recombination in dye-sensitized solar cells with ionic liquid electrolytes. Journal of Electroanalytical Chemistry, 2006, 586, 56-61. | 3.8 | 55 |
| 521 | Studies of coupled charge transport in dye-sensitized solar cells using a numerical simulation tool. Solar Energy Materials and Solar Cells, 2006, 90, 1915-1927. | 6.2 | 14 |
| 522 | DFT-INDO/S Modeling of New High Molar Extinction Coefficient Charge-Transfer Sensitizers for Solar Cell Applications. Inorganic Chemistry, 2006, 45, 787-797. | 4.0 | 126 |

| # | Article | IF | Citations |
|---|---|---|---|
| 523 | Dye-Sensitized Nanostructured ZnO Electrodes for Solar Cell Applications. , 2006, , 227-254. |  | 18 |
| 524 | Brownian dynamics simulations of electrons and ions in mesoporous films. Solar Energy Materials and Solar Cells, 2005, 86, 283-297. | 6.2 | 28 |
| 525 | Influence of electrolyte in transport and recombination in dye-sensitized solar cells studied by impedance spectroscopy. Solar Energy Materials and Solar Cells, 2005, 87, 117-131. | 6.2 | 1,107 |
| 526 | Comparison of charge accumulation and transport in nanostructured dye-sensitized solar cells with electrolyte or CuSCN as hole conductor. Solar Energy Materials and Solar Cells, 2005, 88, 351-362. | 6.2 | 12 |
| 527 | Conducting Polymers Containing In-Chain Metal Centers:Â Electropolymerization of Oligothienyl-Substituted {M(tpy)2} Complexes and in Situ Conductivity Studies, M = Os(II), Ru(II). Inorganic Chemistry, 2005, 44, 1073-1081. | 4.0 | 109 |
| 528 | Dye-Sensitized Solar Cells Based on Nanocrystalline TiO2Films Surface Treated with Al3+Ions:Â Photovoltage and Electron Transport Studies. Journal of Physical Chemistry B, 2005, 109, 18483-18490. | 2.6 | 88 |
| 529 | Photoinduced Ultrafast Dynamics of Coumarin 343 Sensitized p-Type-Nanostructured NiO Films. Journal of Physical Chemistry B, 2005, 109, 19403-19410. | 2.6 | 181 |
| 530 | Determination of the Light-Induced Degradation Rate of the Solar Cell SensitizerN719on TiO2Nanocrystalline Particles. Journal of Physical Chemistry B, 2005, 109, 22413-22419. | 2.6 | 56 |
| 531 | Interfacial properties of photovoltaic TiO2/dye/PEDOTâ€"PSS heterojunctions. Synthetic Metals, 2005, 149, 157-167. | 3.9 | 33 |
| 532 | Sensitized Hole Injection of Phosphorus Porphyrin into NiO:Â Toward New Photovoltaic Devices. Journal of Physical Chemistry B, 2005, 109, 22928-22934. | 2.6 | 188 |
| 533 | Activation Energy of Electron Transport in Dye-Sensitized TiO2 Solar Cells. Journal of Physical Chemistry B, 2005, 109, 12093-12098. | 2.6 | 175 |
| 534 | Are dye-sensitized nano-structured solar cells stable? An overview of device testing and component analyses. International Journal of Photoenergy, 2004, 6, 127-140. | 2.5 | 89 |
| 535 | Stable New Sensitizer with Improved Light Harvesting for Nanocrystalline Dye-Sensitized Solar Cells. Advanced Materials, 2004, 16, 1806-1811. | 21.0 | 324 |
| 536 | Electropolymerisation dynamics of a highly conducting metallopolymer: poly-[Os(4â€²-(5-(2,2â€²-bithienyl))-2,2â€²:6â€²,2â€³-terpyridine)2]2+. Electrochemistry Communications, 2004, 6, 193-200. | 4.7 | 34 |
| 537 | Molten and solid metal-iodide-doped trialkylsulphonium iodides and polyiodides as electrolytes in dye-sensitized nanocrystalline solar cells. Solar Energy Materials and Solar Cells, 2004, 82, 345-360. | 6.2 | 45 |
| 538 | Coordinative interactions in a dye-sensitized solar cell. Journal of Photochemistry and Photobiology A: Chemistry, 2004, 164, 23-27. | 3.9 | 47 |
| 539 | Chargeâ€"discharge kinetics of electric-paint displays. Journal of Electroanalytical Chemistry, 2004, 565, 175-184. | 3.8 | 7 |
| 540 | Electropolymerisable bipyridine ruthenium(II) complexes: synthesis, spectroscopic and electrochemical characterisation of 4-((2-thienyl) ethenyl)- and 4,4â€²-di((2-thienyl) ethenyl)-2,2â€²-bipyridine ruthenium complexes. Polyhedron, 2004, 23, 589-598. | 2.2 | 19 |

| # | ARTICLE | IF | CITATIONS |
|---|---|---|---|
| 541 | Modification of electron transfer properties in photoelectrochemical solar cells by substituting {Ru(terpy)2}2+ dyes with thiophene. Inorganic Chemistry Communication, 2004, 7, 117-121. | 3.9 | 41 |
| 542 | A system approach to molecular solar cells. Coordination Chemistry Reviews, 2004, 248, 1501-1509. | 18.8 | 69 |
| 543 | Direct-driven electrochromic displays based on nanocrystalline electrodes. Displays, 2004, 25, 223-230. | 3.7 | 29 |
| 544 | Ultrafast relaxation dynamics of charge carriers relaxation in ZnO nanocrystalline thin films. Chemical Physics Letters, 2004, 387, 176-181. | 2.6 | 115 |
| 545 | Conductivity Studies of Nanostructured TiO2Films Permeated with Electrolyte. Journal of Physical Chemistry B, 2004, 108, 12388-12396. | 2.6 | 77 |
| 546 | Photoelectron Spectroscopy Studies of Ru(dcbpyH2)2(NCS)2/CuI and Ru(dcbpyH2)2(NCS)2/CuSCN Interfaces for Solar Cell Applications. Journal of Physical Chemistry B, 2004, 108, 11604-11610. | 2.6 | 37 |
| 547 | Synthesis of phthalocyanines with two carboxylic acid groups and their utilization in solar cells based on nano-structured <font>TiO</font><sub>2</sub>. Journal of Porphyrins and Phthalocyanines, 2004, 08, 1228-1235. | 0.8 | 33 |
| 548 | Photovoltage study of charge injection from dye moleculesinto transparent hole and electron conductors. Applied Physics Letters, 2004, 84, 5455-5457. | 3.3 | 82 |
| 549 | Proton Insertion in Polycrystalline WO3 Studied with Electron Spectroscopy and Semi-empirical Calculations. Advances in Quantum Chemistry, 2004, 47, 23-36. | 0.8 | 8 |
| 550 | Photoinduced absorption spectroscopy of dye-sensitized nanostructured TiO2. Chemical Physics Letters, 2003, 370, 381-386. | 2.6 | 107 |
| 551 | Degradation mechanisms in a dye-sensitized solar cell studied by UVâ€"VIS and IR spectroscopy. Solar Energy, 2003, 75, 169-180. | 6.1 | 148 |
| 552 | Dye-sensitized sputtered titanium oxide films for photovoltaic applications: influence of the O2/Ar gas flow ratio during the deposition. Solar Energy Materials and Solar Cells, 2003, 76, 37-56. | 6.2 | 24 |
| 553 | Particle Size and Crystallinity Dependent Electron Injection in Fluorescein 27-Sensitized TiO2Films. Journal of Physical Chemistry B, 2003, 107, 1370-1375. | 2.6 | 101 |
| 554 | Conducting Polymers Containing In-Chain Metal Centers: Homogeneous Charge Transport through a Quaterthienyl-Bridged {Os(tpy)2} Polymer. Journal of Physical Chemistry B, 2003, 107, 10431-10439. | 2.6 | 40 |
| 555 | Molten and Solid Trialkylsulfonium Iodides and Their Polyiodides as Electrolytes in Dye-Sensitized Nanocrystalline Solar Cells. Journal of Physical Chemistry B, 2003, 107, 13665-13670. | 2.6 | 84 |
| 556 | A New Method for Manufacturing Dye-Sensitized Solar Cells on Plastic Substrates. ACS Symposium Series, 2003, , 123-132. | 0.5 | 4 |
| 557 | Tuning the properties of ruthenium bipyridine dyes for solar cells by substitution on the ligandsâ€"characterisation of bis[4,4â€²-di(2-(3-methoxyphenyl)ethenyl)-2,2â€²-bipyridine][4,4â€²-dicarboxy-2,2â€²-bipyridine]ruthenium(ii) dihexafluorophosphate. Dalton Transactions, 2003, , 1280-1283. | 3.3 | 28 |
| 558 | Electronic structure of electrochemically Li-inserted TiO2 studied with synchrotron radiation electron spectroscopies. Journal of Chemical Physics, 2003, 118, 5607-5612. | 3.0 | 42 |

| # | ARTICLE | IF | CITATIONS |
|---|---|---|---|
| 559 | P-92: Electrochromic Passive-Matrix Displays. Digest of Technical Papers SID International Symposium, 2003, 34, 570. | 0.3 | 2 |
| 560 | 10.3: Screen-Printed Electrochromic Displays based on Nanocrystalline Electrodes. Digest of Technical Papers SID International Symposium, 2002, 33, 123. | 0.3 | 8 |
| 561 | PES Studies of Ru(dcbpyH2)2(NCS)2Adsorption on Nanostructured ZnO for Solar Cell Applications. Journal of Physical Chemistry B, 2002, 106, 10102-10107. | 2.6 | 106 |
| 562 | Interfacial Electron-Transfer Dynamics in Ru(tcterpy)(NCS)3-Sensitized TiO2 Nanocrystalline Solar Cells. Journal of Physical Chemistry B, 2002, 106, 12693-12704. | 2.6 | 181 |
| 563 | A rod-like polymer containing {Ru(terpy)2} units prepared by electrochemical coupling of pendant thienyl moieties. Chemical Communications, 2002, , 284-285. | 4.1 | 52 |
| 564 | Modified Phthalocyanines for Efficient Near-IR Sensitization of Nanostructured TiO2 Electrode. Journal of the American Chemical Society, 2002, 124, 4922-4932. | 13.7 | 396 |
| 565 | Ultrafast studies of electron injection in Ru dye sensitizedSnO2nanocrystalline thin film. International Journal of Photoenergy, 2002, 4, 17-20. | 2.5 | 64 |
| 566 | Aqueous photoelectrochemistry of hematite nanorod array. Solar Energy Materials and Solar Cells, 2002, 71, 231-243. | 6.2 | 281 |
| 567 | A 5% efficient photoelectrochemical solar cell based on nanostructured ZnO electrodes. Solar Energy Materials and Solar Cells, 2002, 73, 51-58. | 6.2 | 577 |
| 568 | A semi-empirical model for the charging and discharging of electric-paint displays. Electrochemistry Communications, 2002, 4, 963-967. | 4.7 | 21 |
| 569 | New dyes for solar cells based on nanostructured semiconducting metal oxides. Journal of Photochemistry and Photobiology A: Chemistry, 2002, 148, 41-48. | 3.9 | 24 |
| 570 | Nanostructured ZnO electrodes for dye-sensitized solar cell applications. Journal of Photochemistry and Photobiology A: Chemistry, 2002, 148, 57-64. | 3.9 | 337 |
| 571 | Optimization of dye-sensitized solar cells prepared by compression method. Journal of Photochemistry and Photobiology A: Chemistry, 2002, 148, 11-15. | 3.9 | 209 |
| 572 | Trapping of electrons in nanostructured TiO2 studied by photocurrent transients. Journal of Photochemistry and Photobiology A: Chemistry, 2002, 152, 213-218. | 3.9 | 26 |
| 573 | Determination of the electronic density of states at a nanostructured TiO2/Ru-dye/electrolyte interface by means of photoelectron spectroscopy. Chemical Physics, 2002, 285, 157-165. | 1.9 | 55 |
| 574 | A new method for manufacturing nanostructured electrodes on glass substrates. Solar Energy Materials and Solar Cells, 2002, 73, 91-101. | 6.2 | 77 |
| 575 | A detailed analysis of ambipolar diffusion in nanostructured metal oxide films. Solar Energy Materials and Solar Cells, 2002, 73, 411-423. | 6.2 | 37 |
| 576 | Phthalocyanine-Sensitized Nanostructured TiO2Electrodes Prepared by a Novel Anchoring Method. Langmuir, 2001, 17, 2743-2747. | 3.5 | 124 |

| # | ARTICLE | IF | CITATIONS |
|---|---|---|---|
| 577 | Purpose-Built Anisotropic Metal Oxide Material:Â 3D Highly Oriented Microrod Array of ZnO. Journal of Physical Chemistry B, 2001, 105, 3350-3352. | 2.6 | 903 |
| 578 | Three-Dimensional Array of Highly Oriented Crystalline ZnO Microtubes. Chemistry of Materials, 2001, 13, 4395-4398. | 6.7 | 890 |
| 579 | Spectroelectrochemistry of Nanostructured NiO. Journal of Physical Chemistry B, 2001, 105, 3039-3044. | 2.6 | 354 |
| 580 | Electron Injection and Recombination in Ru(dcbpy)2(NCS)2Sensitized Nanostructured ZnO. Journal of Physical Chemistry B, 2001, 105, 5585-5588. | 2.6 | 280 |
| 581 | Resonance Raman Scattering of a Dye-Sensitized Solar Cell:Â Mechanism of Thiocyanato Ligand Exchange. Journal of Physical Chemistry B, 2001, 105, 6314-6320. | 2.6 | 161 |
| 582 | Photoelectrochemical Properties of Nano- to Microstructured ZnO Electrodes. Journal of the Electrochemical Society, 2001, 148, A149. | 2.9 | 96 |
| 583 | Electropolymerisable bipyridine ruthenium(II) complexes. Synthesis and electrochemical characterisation of 4-(3-methoxystyryl)- and 4,4â€²-di(3-methoxystyryl)-2,2â€²-bipyridine ruthenium complexes. Dalton Transactions RSC, 2001, , 1319-1325. | 2.3 | 22 |
| 584 | Triarylamine on Nanocrystalline TiO2 Studied in Its Reduced and Oxidized State by Photoelectron Spectroscopy. Journal of Physical Chemistry B, 2001, 105, 7182-7187. | 2.6 | 14 |
| 585 | Controlled Aqueous Chemical Growth of Oriented Three-Dimensional Crystalline Nanorod Arrays:â€‰ Application to Iron(III) Oxides. Chemistry of Materials, 2001, 13, 233-235. | 6.7 | 480 |
| 586 | 39.2: Nanostructured Electrochromic Displays: â€œElectric-Paint Displaysâ€ Digest of Technical Papers SID International Symposium, 2001, 32, 1058. | 0.3 | 6 |
| 587 | Environmental aspects of electricity generation from a nanocrystalline dye sensitized solar cell system. Renewable Energy, 2001, 23, 27-39. | 8.9 | 124 |
| 588 | A new method to make dye-sensitized nanocrystalline solar cells at room temperature. Journal of Photochemistry and Photobiology A: Chemistry, 2001, 145, 107-112. | 3.9 | 190 |
| 589 | Free-base tetra-arylphthalocyanines for dye-sensitised nanostructured solar cell applications. Journal of Porphyrins and Phthalocyanines, 2001, 05, 609-616. | 0.8 | 24 |
| 590 | â€˜Electric-paint displaysâ€™ with carbon counter electrodes. Electrochimica Acta, 2001, 46, 2187-2193. | 5.2 | 25 |
| 591 | A New Method for Manufacturing Nanostructured Electrodes on Plastic Substrates. Nano Letters, 2001, 1, 97-100. | 9.1 | 328 |
| 592 | Electrochemical Investigation of Traps in a Nanostructured TiO2Film. Journal of Physical Chemistry B, 2001, 105, 2529-2533. | 2.6 | 177 |
| 593 | Freeâ€base tetraâ€arylphthalocyanines for dyeâ€sensitised nanostructured solar cell applications. Journal of Porphyrins and Phthalocyanines, 2001, 5, 609-616. | 0.8 | 9 |
| 594 | Electrochemical and photoelectrochemical investigation of new carboxylatobipyridine(bis-bipyridine)ruthenium(II) complexes for dye-sensitized TiO2 electrodes. Solar Energy Materials and Solar Cells, 2000, 64, 97-114. | 6.2 | 24 |

| # | ARTICLE | IF | CITATIONS |
|---|---|---|---|
| 595 | High efficiency dye-sensitized nanocrystalline solar cells based on sputter deposited Ti oxide films. Solar Energy Materials and Solar Cells, 2000, 64, 385-392. | 6.2 | 64 |
| 596 | Negative Ames-test of cis-di(thiocyanato)-N,N'-bis(4,4'-dicarboxy-2,2'-bipyridine)Ru(II), the sensitizer dye of the nanocrystalline TiO2 solar cell. Solar Energy Materials and Solar Cells, 2000, 60, 43-49. | 6.2 | 7 |
| 597 | Charge transport properties in the nanostructured ZnO thin film electrode â€" electrolyte system studied with time resolved photocurrents. Solar Energy Materials and Solar Cells, 2000, 60, 181-193. | 6.2 | 43 |
| 598 | Nanocrystalline Ti-oxide-based solar cells made by sputter deposition and dye sensitization: Efficiency versus film thickness. Solar Energy Materials and Solar Cells, 2000, 62, 259-263. | 6.2 | 43 |
| 599 | Dye-sensitized nanostructured tandem cell-first demonstrated cell with a dye-sensitized photocathode. Solar Energy Materials and Solar Cells, 2000, 62, 265-273. | 6.2 | 307 |
| 600 | Title is missing!. Journal of Materials Science: Materials in Electronics, 2000, 11, 355-362. | 2.2 | 88 |
| 601 | Molecular Photovoltaics. Accounts of Chemical Research, 2000, 33, 269-277. | 15.6 | 2,625 |
| 602 | Purpose-built metal oxide nanomaterials. The emergence of a new generation of smart materials. Pure and Applied Chemistry, 2000, 72, 47-52. | 1.9 | 111 |
| 603 | Photoelectrochemical Studies of Oriented Nanorod Thin Films of Hematite. Journal of the Electrochemical Society, 2000, 147, 2456. | 2.9 | 454 |
| 604 | Dye-Sensitized Nanocrystalline Titanium-Oxide-Based Solar Cells Prepared by Sputtering:Â Influence of the Substrate Temperature During Deposition. Journal of Physical Chemistry B, 2000, 104, 8712-8718. | 2.6 | 35 |
| 605 | Photolelectrochemistry of Nanostructured WO3Thin Film Electrodes for Water Oxidation:Â Mechanism of Electron Transport. Journal of Physical Chemistry B, 2000, 104, 5686-5696. | 2.6 | 213 |
| 606 | Studies of the Adsorption Process of Ru Complexes in Nanoporous ZnO Electrodes. Langmuir, 2000, 16, 4688-4694. | 3.5 | 373 |
| 607 | Photoelectrochemical effect in dye sensitized, sputter deposited Ti oxide films: The role of thickness-dependent roughness and porosity. Solar Energy Materials and Solar Cells, 1999, 59, 277-287. | 6.2 | 20 |
| 608 | Dye-Sensitized Nanostructured p-Type Nickel Oxide Film as a Photocathode for a Solar Cell. Journal of Physical Chemistry B, 1999, 103, 8940-8943. | 2.6 | 504 |
| 609 | Nanostructured ZnO electrodes for photovoltaic applications. Scripta Materialia, 1999, 12, 487-490. | 0.5 | 148 |
| 610 | Charge Transport Properties in Dye-Sensitized Nanostructured TiO2 Thin Film Electrodes Studied by Photoinduced Current Transients. Journal of Physical Chemistry B, 1999, 103, 1078-1083. | 2.6 | 143 |
| 611 | Investigation of influence of redox species on the interfacial energetics of a dye-sensitized nanoporous TiO2 solar cell. Solar Energy Materials and Solar Cells, 1998, 55, 267-281. | 6.2 | 355 |
| 612 | Redox properties of nanoporous TiO2 (anatase) surface modified with phosphotungstic acid. Thin Solid Films, 1998, 323, 141-145. | 1.8 | 23 |

| # | Article | IF | Citations |
|---|---|---|---|
| 613 | Li and Na Diffusion in TiO2 from Quantum Chemical Theory versus Electrochemical Experiment. Journal of the American Chemical Society, 1997, 119, 7374-7380. | 13.7 | 220 |
| 614 | Li+Ion Insertion in TiO2(Anatase). 1. Chronoamperometry on CVD Films and Nanoporous Films. Journal of Physical Chemistry B, 1997, 101, 7710-7716. | 2.6 | 257 |
| 615 | Lithium Intercalation in Nanoporous Anatase TiO2 Studied with XPS. Journal of Physical Chemistry B, 1997, 101, 3087-3090. | 2.6 | 229 |
| 616 | Li+Ion Insertion in TiO2(Anatase). 2. Voltammetry on Nanoporous Films. Journal of Physical Chemistry B, 1997, 101, 7717-7722. | 2.6 | 1,283 |
| 617 | High Light-to-Energy Conversion Efficiencies for Solar Cells Based on Nanostructured ZnO Electrodes. Journal of Physical Chemistry B, 1997, 101, 2598-2601. | 2.6 | 473 |
| 618 | Electron Transport in the Nanostructured TiO2âˆ’Electrolyte System Studied with Time-Resolved Photocurrents. Journal of Physical Chemistry B, 1997, 101, 2514-2518. | 2.6 | 303 |
| 619 | The electronic structure of the cis-bis(4,4â€²-dicarboxy-2,2â€²-bipyridine)-bis(isothiocyanato)ruthenium(II) complex and its ligand 2,2â€²-bipyridyl-4,4â€²-dicarboxylic acid studied with electron spectroscopy. Chemical Physics Letters, 1997, 274, 51-57. | 2.6 | 83 |
| 620 | Theoretical study of lithium intercalation in rutile and anatase. Physical Review B, 1996, 53, 159-170. | 3.2 | 208 |
| 621 | Photocapacitance of Nanocrystalline Oxide Semiconductor Films:Â Band-Edge Movement in Mesoporous TiO2Electrodes during UV Illumination. The Journal of Physical Chemistry, 1996, 100, 8045-8048. | 2.9 | 95 |
| 622 | Photocurrent Losses in Nanocrystalline/Nanoporous TiO2 Electrodes Due to Electrochemically Active Species in the Electrolyte. Journal of the Electrochemical Society, 1996, 143, 3173-3178. | 2.9 | 47 |
| 623 | Laser induced photocurrent transients and capacitance measurements on nanocrystalline TiO2 electrodes. Solar Energy Materials and Solar Cells, 1995, 38, 339-341. | 6.2 | 3 |
| 624 | Comment on photoelectrochemistry. Solar Energy Materials and Solar Cells, 1995, 38, 321-322. | 6.2 | 0 |
| 625 | Photoelectrochemical studies of colloidal TiO2 films: The effect of oxygen studied by photocurrent transients. Journal of Electroanalytical Chemistry, 1995, 381, 39-46. | 3.8 | 215 |
| 626 | Light-Induced Redox Reactions in Nanocrystalline Systems. Chemical Reviews, 1995, 95, 49-68. | 47.7 | 5,161 |
| 627 | <title>Electrochromic switching with nanocrystalline TiO<formula><inf><roman>2</roman></inf></formula> semiconductor films</title>. , 1994, 2255, 297. |  | 17 |
| 628 | Verification of high efficiencies for the GrÃtzel-cell. A 7% efficient solar cell based on dye-sensitized colloidal TiO2 films. Solar Energy Materials and Solar Cells, 1994, 31, 481-488. | 6.2 | 154 |
| 629 | Energy levels of small titanium oxide clusters obtained fromSCF calculations. International Journal of Quantum Chemistry, 1994, 49, 97-104. | 2.0 | 21 |
| 630 | Charge carrier separation and charge transport in nanocrystalline junctions. Solar Energy Materials and Solar Cells, 1994, 32, 245-257. | 6.2 | 88 |

| # | ARTICLE | IF | CITATIONS |
|---|---|---|---|
| 631 | Theoretical Models for the Action Spectrum and the Current-Voltage Characteristics of Microporous Semiconductor Films in Photoelectrochemical Cells. The Journal of Physical Chemistry, 1994, 98, 5552-5556. | 2.9 | 638 |
| 632 | Fast Electrochromic Switching with Nanocrystalline Oxide Semiconductor Films. Journal of the Electrochemical Society, 1994, 141, L82-L84. | 2.9 | 206 |
| 633 | Structure and stability of small titanium/oxygen clusters studied by ab initio quantum chemical calculations. The Journal of Physical Chemistry, 1993, 97, 12725-12730. | 2.9 | 53 |
| 634 | <title>Colloidal films from TiO2, an electrode material for dye-sensitized solar cells</title>. , 1993, 2017, 240. | | 1 |
| 635 | Semiempirical calculations of TiO2 (rutile) clusters. International Journal of Quantum Chemistry, 1992, 44, 477-495. | 2.0 | 36 |
| 636 | Photoelectrochemical studies of colloidal TiO2-films: the charge separation process studied by means of action spectra in the UV region. Solar Energy Materials and Solar Cells, 1992, 27, 293-304. | 6.2 | 162 |
| 637 | Importance of surface reactions in the photochemistry of zinc sulfide colloids. The Journal of Physical Chemistry, 1990, 94, 6797-6804. | 2.9 | 98 |
| 638 | Dye-sensitized and Perovskite Solar Cells with Record Level Efficiencies. , 0, , . | | 0 |
| 639 | Nanoscale interfacial engineering enables highly stable and efficient perovskite photovoltaics. , 0, , . | | 0 |
| 640 | Watching Ions Move: Scanning Probe Microscopy on Perovskite Solar Cells. , 0, , . | | 0 |
| 641 | The Versatility of Mesoscopic Solar Cells. , 0, , . | | 0 |
| 642 | Crystal Orientation and Grain Size: Do They Matter for Optoelectronic Properties of MAPbI3 Perovskite?. , 0, , . | | 0 |
| 643 | Electron and hole transfer at TiO2/perovskite and perovskite/spiro-OMeTAD interfaces in the triple cation perovskite solar cells prepared under room ambient conditions. , 0, , . | | 0 |
| 644 | Crystal Orientation and Grain Size: Do They Matter for Optoelectronic Properties of MAPbI3 Perovskite?. , 0, , . | | 0 |
| 645 | Interfacial Defects Passivation of High Efficiency Perovskite Solar Modules. , 0, , . | | 1 |
| 646 | Interfacial Passivation Treatment towards High-efficiency and Operational Stable Perovskite Solar Cells. , 0, , . | | 1 |
| 647 | 2D White-Light Spectroscopy: Application to Lead-Halide Perovskites with Mixed Cations. ACS Symposium Series, 0, , 135-151. | 0.5 | 1 |