

# David S Ginger

## List of Publications by Citations

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205  
papers

19,309  
citations

71  
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136  
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219  
ext. papers

21,156  
ext. citations

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L-index

| #   | Paper   | IF   | Citations |
|-----|---|------|-----------|
| 205 | Solar cells. Impact of microstructure on local carrier lifetime in perovskite solar cells. <i>Science</i> , <b>2015</b> , 348, 683-6  | 33.3 | 1533      |
| 204 | The evolution of dip-pen nanolithography. <i>Angewandte Chemie - International Edition</i> , <b>2004</b> , 43, 30-45  | 16.4 | 802       |
| 203 | Direct patterning of modified oligonucleotides on metals and insulators by dip-pen nanolithography. <i>Science</i> , <b>2002</b> , 296, 1836-8  | 33.3 | 661       |
| 202 | High-performance and environmentally stable planar heterojunction perovskite solar cells based on a solution-processed copper-doped nickel oxide hole-transporting layer. <i>Advanced Materials</i> , <b>2015</b> , 27, 695-701 | 24   | 655       |
| 201 | Photo-induced halide redistribution in organic-inorganic perovskite films. <i>Nature Communications</i> , <b>2016</b> , 7, 11683  | 17.4 | 621       |
| 200 | Dependence of fluorescence intensity on the spectral overlap between fluorophores and plasmon resonant single silver nanoparticles. <i>Nano Letters</i> , <b>2007</b> , 7, 690-6  | 11.5 | 600       |
| 199 | Synthesis and optical properties of silver nanobars and nanorice. <i>Nano Letters</i> , <b>2007</b> , 7, 1032-6   | 11.5 | 545       |
| 198 | Enhanced optoelectronic quality of perovskite thin films with hypophosphorous acid for planar heterojunction solar cells. <i>Nature Communications</i> , <b>2015</b> , 6, 10030   | 17.4 | 492       |
| 197 | Efficient CdSe/CdS quantum dot light-emitting diodes using a thermally polymerized hole transport layer. <i>Nano Letters</i> , <b>2006</b> , 6, 463-7   | 11.5 | 448       |
| 196 | Polymer-modified halide perovskite films for efficient and stable planar heterojunction solar cells. <i>Science Advances</i> , <b>2017</b> , 3, e1700106  | 14.3 | 443       |
| 195 | The role of spin in the kinetic control of recombination in organic photovoltaics. <i>Nature</i> , <b>2013</b> , 500, 435-9   | 30.4 | 379       |
| 194 | The Importance of Moisture in Hybrid Lead Halide Perovskite Thin Film Fabrication. <i>ACS Nano</i> , <b>2015</b> , 9, 9380-93   | 16.7 | 366       |
| 193 | Photoluminescence Lifetimes Exceeding 8 ns and Quantum Yields Exceeding 30% in Hybrid Perovskite Thin Films by Ligand Passivation. <i>ACS Energy Letters</i> , <b>2016</b> , 1, 438-444   | 20.1 | 361       |
| 192 | Plasmon-enhanced charge carrier generation in organic photovoltaic films using silver nanoprisms. <i>Nano Letters</i> , <b>2010</b> , 10, 1501-5  | 11.5 | 340       |
| 191 | Hybrid perovskite films approaching the radiative limit with over 90% photoluminescence quantum efficiency. <i>Nature Photonics</i> , <b>2018</b> , 12, 355-361   | 33.9 | 319       |
| 190 | Efficient perovskite solar cells by metal ion doping. <i>Energy and Environmental Science</i> , <b>2016</b> , 9, 2892-2901  | 35.4 | 301       |
| 189 | Photoinduced electron transfer from conjugated polymers to CdSe nanocrystals. <i>Physical Review B</i> , <b>1999</b> , 59, 10622-10629  | 3.3  | 301       |

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|-----|---|-------|-----|
| 188 | Charge injection and transport in films of CdSe nanocrystals. <i>Journal of Applied Physics</i> , <b>2000</b> , 87, 1361-1368   | 13.68 | 282 |
| 187 | Mapping local photocurrents in polymer/fullerene solar cells with photoconductive atomic force microscopy. <i>Nano Letters</i> , <b>2007</b> , 7, 738-44  | 11.5  | 256 |
| 186 | Time-resolved electrostatic force microscopy of polymer solar cells. <i>Nature Materials</i> , <b>2006</b> , 5, 735-40  | 27    | 253 |
| 185 | Quantitative Study of the Effects of Surface Ligand Concentration on CdSe Nanocrystal Photoluminescence. <i>Journal of Physical Chemistry C</i> , <b>2007</b> , 111, 6220-6227  | 3.8   | 226 |
| 184 | Spectral control of plasmonic emission enhancement from quantum dots near single silver nanoprisms. <i>Nano Letters</i> , <b>2010</b> , 10, 2598-603  | 11.5  | 208 |
| 183 | Suppressed charge recombination in inverted organic photovoltaics via enhanced charge extraction by using a conductive fullerene electron transport layer. <i>Advanced Materials</i> , <b>2014</b> , 26, 6262-7                       | 24    | 198 |
| 182 | Direct-write dip-pen nanolithography of proteins on modified silicon oxide surfaces. <i>Angewandte Chemie - International Edition</i> , <b>2003</b> , 42, 2309-12   | 16.4  | 190 |
| 181 | Space charge limited current measurements on conjugated polymer films using conductive atomic force microscopy. <i>Nano Letters</i> , <b>2008</b> , 8, 1602-9   | 11.5  | 181 |
| 180 | Two-Dimensional Perovskite Solar Cells with 14.1% Power Conversion Efficiency and 0.68% External Radiative Efficiency. <i>ACS Energy Letters</i> , <b>2018</b> , 3, 2086-2093   | 20.1  | 180 |
| 179 | Heterogeneity in polymer solar cells: local morphology and performance in organic photovoltaics studied with scanning probe microscopy. <i>Accounts of Chemical Research</i> , <b>2010</b> , 43, 612-20                               | 24.3  | 179 |
| 178 | Electrical Scanning Probe Microscopy on Active Organic Electronic Devices. <i>Advanced Materials</i> , <b>2009</b> , 21, 19-28  | 24    | 175 |
| 177 | Plasmonic nanoparticle dimers for optical sensing of DNA in complex media. <i>Journal of the American Chemical Society</i> , <b>2010</b> , 132, 9600-1  | 16.4  | 169 |
| 176 | Polymer nanowire/fullerene bulk heterojunction solar cells: how nanostructure determines photovoltaic properties. <i>ACS Nano</i> , <b>2010</b> , 4, 1861-72  | 16.7  | 168 |
| 175 | The Changing Face of PEDOT:PSS Films: Substrate, Bias, and Processing Effects on Vertical Charge Transport. <i>Journal of Physical Chemistry C</i> , <b>2008</b> , 112, 7922-7927   | 3.8   | 164 |
| 174 | Lithium-doping inverts the nanoscale electric field at the grain boundaries in Cu <sub>2</sub> ZnSn(S,Se) <sub>4</sub> and increases photovoltaic efficiency. <i>Physical Chemistry Chemical Physics</i> , <b>2015</b> , 17, 23859-66 | 3.6   | 150 |
| 173 | Top-down meets bottom-up: dip-pen nanolithography and DNA-directed assembly of nanoscale electrical circuits. <i>Small</i> , <b>2005</b> , 1, 64-9  | 11    | 142 |
| 172 | Phosphonic Acids for Interfacial Engineering of Transparent Conductive Oxides. <i>Chemical Reviews</i> , <b>2016</b> , 116, 7117-58   | 68.1  | 135 |
| 171 | The role of mesoscopic PCBM crystallites in solvent vapor annealed copolymer solar cells. <i>ACS Nano</i> , <b>2009</b> , 3, 627-36   | 16.7  | 131 |

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|-----|---|------|-----|
| 170 | Synthesis and Optical Properties of Cubic Gold Nanoframes. <i>Nano Research</i> , <b>2008</b> , 1, 441-449  | 10   | 128 |
| 169 | Characterizing Morphology in Bulk Heterojunction Organic Photovoltaic Systems. <i>Journal of Physical Chemistry Letters</i> , <b>2010</b> , 1, 1160-1169  | 6.4  | 119 |
| 168 | Living templates for the hierarchical assembly of gold nanoparticles. <i>Angewandte Chemie - International Edition</i> , <b>2003</b> , 42, 2306-9   | 16.4 | 119 |
| 167 | Broadband absorbing bulk heterojunction photovoltaics using low-bandgap solution-processed quantum dots. <i>Nano Letters</i> , <b>2010</b> , 10, 2635-9   | 11.5 | 118 |
| 166 | Electronic interaction between photoexcited poly(p-phenylene vinylene) and carbon nanotubes. <i>Physical Review B</i> , <b>2000</b> , 61, 2286-2290   | 3.3  | 116 |
| 165 | Improved Performance from Multilayer Quantum Dot Light-Emitting Diodes via Thermal Annealing of the Quantum Dot Layer. <i>Advanced Materials</i> , <b>2007</b> , 19, 3371-3376  | 24   | 115 |
| 164 | Excitation enhancement of CdSe quantum dots by single metal nanoparticles. <i>Applied Physics Letters</i> , <b>2008</b> , 93, 053106  | 3.4  | 114 |
| 163 | Charge-Carrier Recombination in Halide Perovskites. <i>Chemical Reviews</i> , <b>2019</b> , 119, 11007-11019  | 68.1 | 113 |
| 162 | Efficient and bright white light-emitting diodes based on single-layer heterophase halide perovskites. <i>Nature Photonics</i> , <b>2021</b> , 15, 238-244  | 33.9 | 111 |
| 161 | Polymer Crystallinity Controls Water Uptake in Glycol Side-Chain Polymer Organic Electrochemical Transistors. <i>Journal of the American Chemical Society</i> , <b>2019</b> , 141, 4345-4354                            | 16.4 | 107 |
| 160 | A General Route to Enhance Polymer Solar Cell Performance using Plasmonic Nanoprisms. <i>Advanced Energy Materials</i> , <b>2014</b> , 4, 1400206   | 21.8 | 106 |
| 159 | Imaging the evolution of nanoscale photocurrent collection and transport networks during annealing of polythiophene/fullerene solar cells. <i>Nano Letters</i> , <b>2009</b> , 9, 2946-52                               | 11.5 | 101 |
| 158 | Photoinduced Hole Transfer Becomes Suppressed with Diminished Driving Force in Polymer-Fullerene Solar Cells While Electron Transfer Remains Active. <i>Advanced Functional Materials</i> , <b>2013</b> , 23, 1238-1249 | 15.6 | 100 |
| 157 | Local Crystal Misorientation Influences Non-radiative Recombination in Halide Perovskites. <i>Joule</i> , <b>2019</b> , 3, 3048-3060  | 27.8 | 99  |
| 156 | Photoluminescence quenching of single CdSe nanocrystals by ligand adsorption. <i>Nano Letters</i> , <b>2008</b> , 8, 2585-90  | 11.5 | 97  |
| 155 | Reducing Surface Recombination Velocities at the Electrical Contacts Will Improve Perovskite Photovoltaics. <i>ACS Energy Letters</i> , <b>2019</b> , 4, 222-227  | 20.1 | 96  |
| 154 | High-Dielectric Constant Side-Chain Polymers Show Reduced Non-Geminate Recombination in Heterojunction Solar Cells. <i>Advanced Energy Materials</i> , <b>2014</b> , 4, 1301857   | 21.8 | 93  |
| 153 | Electron accumulation on metal nanoparticles in plasmon-enhanced organic solar cells. <i>ACS Nano</i> , <b>2012</b> , 6, 10024-32   | 16.7 | 92  |

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| 152 | Zr Incorporation into TiO <sub>2</sub> Electrodes Reduces Hysteresis and Improves Performance in Hybrid Perovskite Solar Cells while Increasing Carrier Lifetimes. <i>Journal of Physical Chemistry Letters</i> , <b>2015</b> , 6, 669-75            | 6.4  | 91 |
| 151 | Tracking Photoexcited Carriers in Hybrid Perovskite Semiconductors: Trap-Dominated Spatial Heterogeneity and Diffusion. <i>ACS Nano</i> , <b>2017</b> , 11, 11488-11496  | 16.7 | 89 |
| 150 | Zur Entwicklung der Dip-Pen-Nanolithographie. <i>Angewandte Chemie</i> , <b>2004</b> , 116, 30-46  | 3.6  | 89 |
| 149 | Triplet formation and decay in conjugated polymer devices. <i>Chemical Physics Letters</i> , <b>2002</b> , 360, 195-201  | 2.5  | 89 |
| 148 | Scanning Kelvin probe imaging of the potential profiles in fixed and dynamic planar LECs. <i>Journal of the American Chemical Society</i> , <b>2007</b> , 129, 15903-10  | 16.4 | 88 |
| 147 | Patterning phase separation in polymer films with dip-pen nanolithography. <i>Journal of the American Chemical Society</i> , <b>2005</b> , 127, 4564-5   | 16.4 | 88 |
| 146 | Photoswitchable oligonucleotide-modified gold nanoparticles: controlling hybridization stringency with photon dose. <i>Nano Letters</i> , <b>2012</b> , 12, 2530-6   | 11.5 | 85 |
| 145 | Plasmon Line Widths of Single Silver Nanoprisms as a Function of Particle Size and Plasmon Peak Position. <i>Journal of Physical Chemistry C</i> , <b>2007</b> , 111, 18906-18911  | 3.8  | 85 |
| 144 | Signals for a transition from surface to bulk emission in thermal multifragmentation. <i>Physical Review Letters</i> , <b>2000</b> , 84, 5971-4  | 7.4  | 84 |
| 143 | Photodecomposition and Morphology Evolution of Organometal Halide Perovskite Solar Cells. <i>Journal of Physical Chemistry C</i> , <b>2015</b> , 119, 20810-20816  | 3.8  | 83 |
| 142 | Electroabsorption Spectroscopy Measurements of the Exciton Binding Energy, Electron-Hole Reduced Effective Mass, and Band Gap in the Perovskite CH <sub>3</sub> NH <sub>3</sub> PbI <sub>3</sub> . <i>ACS Photonics</i> , <b>2016</b> , 3, 1060-1068 | 6.3  | 82 |
| 141 | Interplay of Mobile Ions and Injected Carriers Creates Recombination Centers in Metal Halide Perovskites under Bias. <i>ACS Energy Letters</i> , <b>2018</b> , 3, 1279-1286  | 20.1 | 81 |
| 140 | B-Site Metal Cation Exchange in Halide Perovskites. <i>ACS Energy Letters</i> , <b>2017</b> , 2, 1190-1196   | 20.1 | 80 |
| 139 | Halogen-free solvent processing for sustainable development of high efficiency organic solar cells. <i>Organic Electronics</i> , <b>2012</b> , 13, 2870-2878   | 3.5  | 80 |
| 138 | Anion-Dependent Doping and Charge Transport in Organic Electrochemical Transistors. <i>Chemistry of Materials</i> , <b>2018</b> , 30, 5380-5389  | 9.6  | 77 |
| 137 | Concerted emission and local potentiometry of light-emitting electrochemical cells. <i>ACS Nano</i> , <b>2010</b> , 4, 2673-80   | 16.7 | 75 |
| 136 | ITO Interface Modifiers Can Improve VOC in Polymer Solar Cells and Suppress Surface Recombination. <i>Journal of Physical Chemistry Letters</i> , <b>2013</b> , 4, 4038-4044   | 6.4  | 73 |
| 135 | Submicrosecond time resolution atomic force microscopy for probing nanoscale dynamics. <i>Nano Letters</i> , <b>2012</b> , 12, 893-8   | 11.5 | 73 |

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| 134 | Photoinduced Charge Transfer and Polaron Dynamics in Polymer and Hybrid Photovoltaic Thin Films: Organic vs Inorganic Acceptors. <i>Journal of Physical Chemistry C</i> , <b>2011</b> , 115, 24403-24410             | 3.8  | 71 |
| 133 | Suppressing Efficiency Roll-Off at High Current Densities for Ultra-Bright Green Perovskite Light-Emitting Diodes. <i>ACS Nano</i> , <b>2020</b> , 14, 6076-6086   | 16.7 | 70 |
| 132 | Absence of photoinduced charge transfer in blends of PbSe quantum dots and conjugated polymers. <i>ACS Nano</i> , <b>2009</b> , 3, 1345-52   | 16.7 | 70 |
| 131 | Anticorrelation between Local Photoluminescence and Photocurrent Suggests Variability in Contact to Active Layer in Perovskite Solar Cells. <i>ACS Nano</i> , <b>2016</b> , 10, 10258-10266                          | 16.7 | 61 |
| 130 | Long-Lived, Non-Geminate, Radiative Recombination of Photogenerated Charges in a Polymer/Small-Molecule Acceptor Photovoltaic Blend. <i>Journal of the American Chemical Society</i> , <b>2018</b> , 140, 9996-10008 | 16.4 | 61 |
| 129 | Plasmonic Enhancement of Raman Scattering from the Organic Solar Cell Material P3HT/PCBM by Triangular Silver Nanoprisms. <i>Journal of Physical Chemistry C</i> , <b>2011</b> , 115, 20788-20794                    | 3.8  | 60 |
| 128 | Controlling film morphology in conjugated polymer:fullerene blends with surface patterning. <i>Journal of the American Chemical Society</i> , <b>2008</b> , 130, 15916-26  | 16.4 | 60 |
| 127 | Reversibly Reconfigurable Colloidal Plasmonic Nanomaterials. <i>Journal of the American Chemical Society</i> , <b>2017</b> , 139, 5266-5276  | 16.4 | 59 |
| 126 | Controlling vertical morphology within the active layer of organic photovoltaics using poly(3-hexylthiophene) nanowires and phenyl-C61-butyric acid methyl ester. <i>ACS Nano</i> , <b>2011</b> , 5, 3132-40         | 16.7 | 59 |
| 125 | Enhanced Förster energy transfer in organic/inorganic bilayer optical microcavities. <i>Chemical Physics Letters</i> , <b>2001</b> , 338, 83-87  | 2.5  | 59 |
| 124 | The Role of Excitation Energy in Photobrightening and Photodegradation of Halide Perovskite Thin Films. <i>Journal of Physical Chemistry Letters</i> , <b>2018</b> , 9, 2062-2069                                    | 6.4  | 57 |
| 123 | Polymer triplet energy levels need not limit photocurrent collection in organic solar cells. <i>Journal of the American Chemical Society</i> , <b>2012</b> , 134, 19661-8  | 16.4 | 56 |
| 122 | Biexciton Auger Recombination Differs in Hybrid and Inorganic Halide Perovskite Quantum Dots. <i>Journal of Physical Chemistry Letters</i> , <b>2018</b> , 9, 104-109  | 6.4  | 53 |
| 121 | Orientation of phenylphosphonic acid self-assembled monolayers on a transparent conductive oxide: a combined NEXAFS, PM-IRRAS, and DFT study. <i>Langmuir</i> , <b>2013</b> , 29, 2166-74                            | 4    | 52 |
| 120 | Quantum dot/plasmonic nanoparticle metachromophores with quantum yields that vary with excitation wavelength. <i>Nano Letters</i> , <b>2011</b> , 11, 2725-30  | 11.5 | 52 |
| 119 | Intensity-modulated scanning Kelvin probe microscopy for probing recombination in organic photovoltaics. <i>ACS Nano</i> , <b>2014</b> , 8, 10799-807  | 16.7 | 50 |
| 118 | Unexpectedly Slow Yet Efficient Picosecond to Nanosecond Photoinduced Hole-Transfer Occurs in a Polymer/Nonfullerene Acceptor Organic Photovoltaic Blend. <i>ACS Energy Letters</i> , <b>2018</b> , 3, 2396-2403     | 20.1 | 49 |
| 117 | Spatially modulating interfacial properties of transparent conductive oxides: patterning work function with phosphonic Acid self-assembled monolayers. <i>Advanced Materials</i> , <b>2012</b> , 24, 642-6           | 24   | 48 |

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| 116 | Imaging Local Trap Formation in Conjugated Polymer Solar Cells: A Comparison of Time-Resolved Electrostatic Force Microscopy and Scanning Kelvin Probe Imaging <i>Journal of Physical Chemistry C</i> , <b>2010</b> , 114, 20672-20677 | 3.8  | 47 |
| 115 | Nucleating pattern formation in spin-coated polymer blend films with nanoscale surface templates. <i>Journal of Physical Chemistry B</i> , <b>2006</b> , 110, 24324-30   | 3.4  | 47 |
| 114 | Charge generation and energy transfer in hybrid polymer/infrared quantum dot solar cells. <i>Energy and Environmental Science</i> , <b>2013</b> , 6, 769   | 35.4 | 46 |
| 113 | Charge separation in conjugated-polymer/nanocrystal blends. <i>Synthetic Metals</i> , <b>1999</b> , 101, 425-428   | 3.6  | 46 |
| 112 | Edge-Gold-Coated Silver Nanoprisms: Enhanced Stability and Applications in Organic Photovoltaics and Chemical Sensing. <i>Journal of Physical Chemistry C</i> , <b>2014</b> , 118, 12459-12468   | 3.8  | 45 |
| 111 | Direct Observation and Quantitative Analysis of Mobile Frenkel Defects in Metal Halide Perovskites Using Scanning Kelvin Probe Microscopy. <i>Journal of Physical Chemistry C</i> , <b>2018</b> , 122, 12633-12639                     | 3.8  | 43 |
| 110 | Built-In Potential in Conjugated Polymer Diodes with Changing Anode Work Function: Interfacial States and Deviation from the Schottky-Mott Limit. <i>Journal of Physical Chemistry Letters</i> , <b>2012</b> , 3, 1202-7               | 6.4  | 42 |
| 109 | Orientation of Ferroelectric Domains and Disappearance upon Heating Methylammonium Lead Triiodide Perovskite from Tetragonal to Cubic Phase. <i>ACS Applied Energy Materials</i> , <b>2018</b> , 1, 1534-1539                          | 6.1  | 40 |
| 108 | Photoisomerization quantum yield of azobenzene-modified DNA depends on local sequence. <i>Journal of the American Chemical Society</i> , <b>2013</b> , 135, 8382-7   | 16.4 | 40 |
| 107 | Functional Scanning Probe Imaging of Nanostructured Solar Energy Materials. <i>Accounts of Chemical Research</i> , <b>2016</b> , 49, 1769-76   | 24.3 | 39 |
| 106 | Long-lived quantum-confined infrared transitions in CdSe nanocrystals. <i>Applied Physics Letters</i> , <b>2000</b> , 77, 2816-2818  | 3.4  | 39 |
| 105 | Fullerene Active Layers for n-Type Organic Electrochemical Transistors. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2019</b> , 11, 28138-28144  | 9.5  | 38 |
| 104 | Hole Transfer from Low Band Gap Quantum Dots to Conjugated Polymers in Organic/Inorganic Hybrid Photovoltaics. <i>Journal of Physical Chemistry Letters</i> , <b>2013</b> , 4, 280-4   | 6.4  | 38 |
| 103 | Open-Circuit Voltage Losses in Selenium-Substituted Organic Photovoltaic Devices from Increased Density of Charge-Transfer States. <i>Chemistry of Materials</i> , <b>2015</b> , 27, 6583-6591   | 9.6  | 37 |
| 102 | Optical detection of protein in complex media with plasmonic nanoparticle dimers. <i>Small</i> , <b>2011</b> , 7, 1993-7   | 11   | 37 |
| 101 | Surface characterization of polythiophene:fullerene blends on different electrodes using near edge X-ray absorption fine structure. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2011</b> , 3, 726-32                            | 9.5  | 37 |
| 100 | Fast time-resolved electrostatic force microscopy: Achieving sub-cycle time resolution. <i>Review of Scientific Instruments</i> , <b>2016</b> , 87, 053702   | 1.7  | 37 |
| 99  | Sn <sup>4+</sup> precursor enables 12.4% efficient kesterite solar cell from DMSO solution with open circuit voltage deficit below 0.30 V. <i>Science China Materials</i> , <b>2021</b> , 64, 52-60                                    | 7.1  | 37 |



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| 98 | A Reversible Structural Phase Transition by Electrochemically-Driven Ion Injection into a Conjugated Polymer. <i>Journal of the American Chemical Society</i> , <b>2020</b> , 142, 7434-7442  | 16.4 | 36 |
| 97 | Competing Effects of Fluorination on the Orientation of Aromatic and Aliphatic Phosphonic Acid Monolayers on Indium Tin Oxide. <i>Journal of Physical Chemistry C</i> , <b>2013</b> , 117, 15139-15147  | 3.8  | 36 |
| 96 | Design rules for the broad application of fast (. <i>RSC Advances</i> , <b>2016</b> , 6, 27475-27484  | 3.7  | 35 |
| 95 | Correlating Photoluminescence Heterogeneity with Local Electronic Properties in Methylammonium Lead Tribromide Perovskite Thin Films. <i>Chemistry of Materials</i> , <b>2017</b> , 29, 5484-5492   | 9.6  | 34 |
| 94 | Optical microcavities using highly luminescent films of semiconductor nanocrystals. <i>Applied Physics Letters</i> , <b>2000</b> , 77, 2500-2502  | 3.4  | 34 |
| 93 | TinLead Alloying for Efficient and Stable All-Inorganic Perovskite Solar Cells. <i>Chemistry of Materials</i> , <b>2020</b> , 32, 2782-2794   | 9.6  | 33 |
| 92 | Interplay between Interfacial Structures and Device Performance in Organic Solar Cells: A Case Study with the Low Work Function Metal, Calcium. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2016</b> , 8, 2125-2131                                      | 9.5  | 33 |
| 91 | Effects of Ligands on Charge Generation and Recombination in Hybrid Polymer/Quantum Dot Solar Cells. <i>Journal of Physical Chemistry C</i> , <b>2015</b> , 119, 24733-24739  | 3.8  | 32 |
| 90 | DPN-generated nanostructures as positive resists for preparing lithographic masters or hole arrays. <i>Nano Letters</i> , <b>2006</b> , 6, 2493-8   | 11.5 | 32 |
| 89 | Light-ion-induced multifragmentation: The ISIS project. <i>Physics Reports</i> , <b>2006</b> , 434, 1-46  | 27.7 | 32 |
| 88 | Highly efficient copper-rich chalcopyrite solar cells from DMF molecular solution. <i>Nano Energy</i> , <b>2020</b> , 69, 104438  | 17.1 | 32 |
| 87 | How disorder controls the kinetics of triplet charge recombination in semiconducting organic polymer photovoltaics. <i>Physical Chemistry Chemical Physics</i> , <b>2014</b> , 16, 20321-8  | 3.6  | 31 |
| 86 | Colloidal CdSe quantum dot electroluminescence: ligands and light-emitting diodes. <i>Mikrochimica Acta</i> , <b>2008</b> , 160, 345-350  | 5.8  | 31 |
| 85 | Time-Resolved Electrical Scanning Probe Microscopy of Layered Perovskites Reveals Spatial Variations in Photoinduced Ionic and Electronic Carrier Motion. <i>ACS Nano</i> , <b>2019</b> , 13, 2812-2821   | 16.7 | 30 |
| 84 | Self-Assembled Monolayers of CdSe Nanocrystals on Doped GaAs Substrates. <i>Nano Letters</i> , <b>2002</b> , 2, 911-914   | 9.1  | 30 |
| 83 | Realization of a Highly Oriented MAPbBr <sub>3</sub> Perovskite Thin Film via Ion Exchange for Ultrahigh Color Purity Green Light Emission. <i>ACS Energy Letters</i> , <b>2018</b> , 3, 1662-1669  | 20.1 | 28 |
| 82 | Electron-Transfer Processes in Zinc Phthalocyanine-Phosphonic Acid Monolayers on ITO: Characterization of Orientation and Charge-Transfer Kinetics by Waveguide Spectroelectrochemistry. <i>Journal of Physical Chemistry Letters</i> , <b>2012</b> , 3, 1154-8 | 6.4  | 28 |
| 81 | New SPM techniques for analyzing OPV materials. <i>Materials Today</i> , <b>2010</b> , 13, 50-56  | 21.8 | 28 |



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|----|--|------|----|
| 80 | Nanopatterning peptides as bifunctional inks for templated assembly. <i>Small</i> , <b>2009</b> , 5, 689-93  | 11   | 27 |
| 79 | Phase transfer of large anisotropic plasmon resonant silver nanoparticles from aqueous to organic solution. <i>Langmuir</i> , <b>2009</b> , 25, 7932-9   | 4    | 27 |
| 78 | Doping for speed: colloidal nanoparticles for thin-film optoelectronics. <i>ACS Nano</i> , <b>2009</b> , 3, 261-5  | 16.7 | 27 |
| 77 | Ion Exchange Gels Allow Organic Electrochemical Transistor Operation with Hydrophobic Polymers in Aqueous Solution. <i>Advanced Materials</i> , <b>2020</b> , 32, e2002610   | 24   | 26 |
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