

Robert S Gurney

List of Publications by Citations

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34
papers

1,335
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35
ext. papers

1,571
ext. citations

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avg, IF

4.93
L-index

| # | Paper | IF | Citations |
|----|---|------|-----------|
| 34 | Molecular engineering of conjugated polymers for efficient hole transport and defect passivation in perovskite solar cells. <i>Nano Energy</i> , 2018 , 45, 28-36 | 17.1 | 174 |
| 33 | Molecular Order Control of Non-fullerene Acceptors for High-Efficiency Polymer Solar Cells. <i>Joule</i> , 2019 , 3, 819-833 | 27.8 | 144 |
| 32 | A review of non-fullerene polymer solar cells: from device physics to morphology control. <i>Reports on Progress in Physics</i> , 2019 , 82, 036601 | 14.4 | 127 |
| 31 | Ionic Additive Engineering Toward High-Efficiency Perovskite Solar Cells with Reduced Grain Boundaries and Trap Density. <i>Advanced Functional Materials</i> , 2018 , 28, 1801985 | 15.6 | 101 |
| 30 | Achieving over 11% power conversion efficiency in PffBT4T-2OD-based ternary polymer solar cells with enhanced open-circuit-voltage and suppressed charge recombination. <i>Nano Energy</i> , 2018 , 44, 155-163 | 17.1 | 77 |
| 29 | Environmentally durable superhydrophobic surfaces with robust photocatalytic self-cleaning and self-healing properties prepared via versatile film deposition methods. <i>Journal of Colloid and Interface Science</i> , 2018 , 527, 107-116 | 9.3 | 52 |
| 28 | Contrasting Effects of Energy Transfer in Determining Efficiency Improvements in Ternary Polymer Solar Cells. <i>Advanced Functional Materials</i> , 2018 , 28, 1704212 | 15.6 | 49 |
| 27 | Superhydrophobic and photocatalytic PDMS/TiO ₂ coatings with environmental stability and multifunctionality. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2019 , 561, 101-108 | 5.1 | 48 |
| 26 | Switching off the tackiness of a nanocomposite adhesive in 30 s via infrared sintering. <i>ACS Applied Materials & Interfaces</i> , 2012 , 4, 5442-52 | 9.5 | 40 |
| 25 | Correlating Three-dimensional Morphology With Function in PBDB-T:IT-M Non-Fullerene Organic Solar Cells. <i>Solar Rrl</i> , 2018 , 2, 1800114 | 7.1 | 39 |
| 24 | Influences of Non-fullerene Acceptor Fluorination on Three-Dimensional Morphology and Photovoltaic Properties of Organic Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 26194-26203 | 9.5 | 33 |
| 23 | Retarding the Crystallization of a Nonfullerene Electron Acceptor for High-Performance Polymer Solar Cells. <i>Advanced Functional Materials</i> , 2018 , 29, 1807662 | 15.6 | 33 |
| 22 | Restrained light-soaking and reduced hysteresis in perovskite solar cells employing a helical perylene diimide interfacial layer. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 10379-10387 | 13 | 33 |
| 21 | Correlating the electron-donating core structure with morphology and performance of carbon oxygen-bridged ladder-type non-fullerene acceptor based organic solar cells. <i>Nano Energy</i> , 2019 , 61, 318-326 | 17.1 | 32 |
| 20 | Morphology and efficiency enhancements of PTB7-Th:ITIC nonfullerene organic solar cells processed via solvent vapor annealing. <i>Journal of Energy Chemistry</i> , 2019 , 37, 148-156 | 12 | 30 |
| 19 | Influence of Polyol Molecular Weight and Type on the Tack and Peel Properties of Waterborne Polyurethane Pressure-Sensitive Adhesives. <i>Macromolecular Reaction Engineering</i> , 2013 , 7, 493-503 | 1.5 | 29 |
| 18 | Halogen-substituted fullerene derivatives for interface engineering of perovskite solar cells. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 21368-21378 | 13 | 26 |

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| 17 | Mechanical properties of a waterborne pressure-sensitive adhesive with a percolating poly(acrylic acid)-based diblock copolymer network: effect of pH. <i>Journal of Colloid and Interface Science</i> , 2015 , 448, 8-16 | 9.3 | 25 |
| 16 | Eliminating Light-Soaking Instability in Planar Heterojunction Perovskite Solar Cells by Interfacial Modifications. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 33144-33152 | 9.5 | 24 |
| 15 | Regulating the morphology of fluorinated non-fullerene acceptor and polymer donor via binary solvent mixture for high efficiency polymer solar cells. <i>Science China Chemistry</i> , 2019 , 62, 1221-1229 | 7.9 | 23 |
| 14 | Trap passivation and efficiency improvement of perovskite solar cells by a guanidinium additive. <i>Materials Chemistry Frontiers</i> , 2019 , 3, 1357-1364 | 7.8 | 23 |
| 13 | Ligand-Exchange of Low-Temperature Synthesized CsPbBr ₃ Perovskite toward High-Efficiency Light-Emitting Diodes. <i>Small Methods</i> , 2019 , 3, 1800489 | 12.8 | 23 |
| 12 | The impacts of PbI ₂ purity on the morphology and device performance of one-step spray-coated planar heterojunction perovskite solar cells. <i>Sustainable Energy and Fuels</i> , 2018 , 2, 436-443 | 5.8 | 23 |
| 11 | TDI/TiO Hybrid Networks for Superhydrophobic Coatings with Superior UV Durability and Cation Adsorption Functionality. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 7488-7497 | 9.5 | 19 |
| 10 | Evolution of molecular aggregation in bar-coated non-fullerene organic solar cells. <i>Materials Chemistry Frontiers</i> , 2019 , 3, 1062-1070 | 7.8 | 19 |
| 9 | Bright perovskite light-emitting diodes with improved film morphology and reduced trap density via surface passivation using quaternary ammonium salts. <i>Organic Electronics</i> , 2019 , 67, 187-193 | 3.5 | 18 |
| 8 | Versatile Device Architectures for High-Performing Light-Soaking-Free Inverted Polymer Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 32678-32687 | 9.5 | 17 |
| 7 | Improved Performance of Perovskite Light-Emitting Diodes by Dual Passivation with an Ionic Additive. <i>ACS Applied Energy Materials</i> , 2019 , 2, 3336-3342 | 6.1 | 13 |
| 6 | Sodium bromide additive improved film morphology and performance in perovskite light-emitting diodes. <i>Applied Physics Letters</i> , 2017 , 111, 053301 | 3.4 | 13 |
| 5 | Correlating Nanoscale Morphology with Device Performance in Conventional and Inverted PffBT4T-2OD:PC71BM Polymer Solar Cells. <i>ACS Applied Energy Materials</i> , 2018 , 1, 3505-3512 | 6.1 | 7 |
| 4 | Improved efficiency in fullerene and non-fullerene polymer solar cells having an interdigitated interface with the electron transport layer. <i>Materials Chemistry Frontiers</i> , 2018 , 2, 1859-1865 | 7.8 | 6 |
| 3 | Large-area patterning of the tackiness of a nanocomposite adhesive by sintering of nanoparticles under IR radiation. <i>ACS Applied Materials & Interfaces</i> , 2013 , 5, 2137-45 | 9.5 | 5 |
| 2 | Perovskite Solar Cells: Ionic Additive Engineering Toward High-Efficiency Perovskite Solar Cells with Reduced Grain Boundaries and Trap Density (Adv. Funct. Mater. 34/2018). <i>Advanced Functional Materials</i> , 2018 , 28, 1870240 | 15.6 | 3 |
| 1 | Power Density Threshold for Switching Off the Tack Adhesion of Colloidal Nanocomposites. <i>Macromolecular Chemistry and Physics</i> , 2014 , 215, 998-1003 | 2.6 | 1 |