

Iain McCulloch

List of Publications by Year in descending order

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506
papers

54,162
citations

906
116
h-index

1715
213
g-index

519
all docs

519
docs citations

519
times ranked

24746
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|------|-----------|
| 1 | High-Efficiency Ion-Exchange Doping of Conducting Polymers. <i>Advanced Materials</i> , 2022, 34, e2102988. | 21.0 | 67 |
| 2 | Co-delivery of NIR-II semiconducting polymer and pH-sensitive doxorubicin-conjugated prodrug for photothermal/chemotherapy. <i>Acta Biomaterialia</i> , 2022, 137, 238-251. | 8.3 | 18 |
| 3 | Oligoethylene Glycol Side Chains Increase Charge Generation in Organic Semiconductor Nanoparticles for Enhanced Photocatalytic Hydrogen Evolution. <i>Advanced Materials</i> , 2022, 34, e2105007. | 21.0 | 33 |
| 4 | Lactone Backbone Density in Rigid Electron-Deficient Semiconducting Polymers Enabling High n-type Organic Thermoelectric Performance. <i>Angewandte Chemie</i> , 2022, 134, . | 2.0 | 8 |
| 5 | Lactone Backbone Density in Rigid Electron-Deficient Semiconducting Polymers Enabling High n-type Organic Thermoelectric Performance. <i>Angewandte Chemie - International Edition</i> , 2022, 61, . | 13.8 | 26 |
| 6 | High-Current-Density Organic Electrochemical Diodes Enabled by Asymmetric Active Layer Design. <i>Advanced Materials</i> , 2022, 34, e2107355. | 21.0 | 8 |
| 7 | Propylene and butylene glycol: new alternatives to ethylene glycol in conjugated polymers for bioelectronic applications. <i>Materials Horizons</i> , 2022, 9, 973-980. | 12.2 | 23 |
| 8 | Green Synthesis of Lactone-Based Conjugated Polymers for n-Type Organic Electrochemical Transistors. <i>Advanced Functional Materials</i> , 2022, 32, . | 14.9 | 45 |
| 9 | Semiconducting Polymers for Neural Applications. <i>Chemical Reviews</i> , 2022, 122, 4356-4396. | 47.7 | 59 |
| 10 | An Electroactive Filter with Tunable Porosity Based on Glycolated Polythiophene. <i>Small Science</i> , 2022, 2, . | 9.9 | 3 |
| 11 | Facilely Accessible Porous Conjugated Polymers toward High-Performance and Flexible Organic Electrochemical Transistors. <i>Chemistry of Materials</i> , 2022, 34, 1666-1676. | 6.7 | 30 |
| 12 | Structural and Dynamic Disorder, Not Ionic Trapping, Controls Charge Transport in Highly Doped Conducting Polymers. <i>Journal of the American Chemical Society</i> , 2022, 144, 3005-3019. | 13.7 | 45 |
| 13 | Introduction: Organic Bioelectronics. <i>Chemical Reviews</i> , 2022, 122, 4323-4324. | 47.7 | 13 |
| 14 | All-Solid-State Vertical Three-Terminal n-Type Organic Synaptic Devices for Neuromorphic Computing. <i>Advanced Functional Materials</i> , 2022, 32, . | 14.9 | 28 |
| 15 | Infrared Organic Photodetectors Employing Ultralow Bandgap Polymer and Non-Fullerene Acceptors for Biometric Monitoring. <i>Small</i> , 2022, 18, e2200580. | 10.0 | 39 |
| 16 | Generation of long-lived charges in organic semiconductor heterojunction nanoparticles for efficient photocatalytic hydrogen evolution. <i>Nature Energy</i> , 2022, 7, 340-351. | 39.5 | 164 |
| 17 | Efficient n-Type Small-Molecule Mixed Ion-Electron Conductors and Application in Hydrogen Peroxide Sensors. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 16477-16486. | 8.0 | 22 |
| 18 | Synthetic Nuances to Maximize n-Type Organic Electrochemical Transistor and Thermoelectric Performance in Fused Lactam Polymers. <i>Journal of the American Chemical Society</i> , 2022, 144, 4642-4656. | 13.7 | 63 |

| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 19 | Sources and Mechanism of Degradation in p-Type Thiophene-Based Organic Electrochemical Transistors. ACS Applied Electronic Materials, 2022, 4, 1391-1404. | 4.3 | 11 |
| 20 | Stretchable Redox-Active Semiconducting Polymers for High-Performance Organic Electrochemical Transistors. Advanced Materials, 2022, 34, e2201178. | 21.0 | 50 |
| 21 | Donor Functionalization Tuning the n-Type Performance of Donor-Acceptor Copolymers for Aqueous-Based Electrochemical Devices. Advanced Functional Materials, 2022, 32, . | 14.9 | 25 |
| 22 | Highly Efficient Mixed Conduction in n-Type Fused Small Molecule Semiconductors. Advanced Functional Materials, 2022, 32, . | 14.9 | 27 |
| 23 | Tuning Organic Electrochemical Transistor Threshold Voltage using Chemically Doped Polymer Gates. Advanced Materials, 2022, 34, . | 21.0 | 14 |
| 24 | Operation Mechanism of n-Type Organic Electronic Metabolite Sensors. Advanced Electronic Materials, 2022, 8, . | 5.1 | 12 |
| 25 | Efficient Electronic Tunneling Governs Transport in Conducting Polymer-Insulator Blends. Journal of the American Chemical Society, 2022, 144, 10368-10376. | 13.7 | 26 |
| 26 | Convection Driven Ultrarapid Protein Detection via Nanobody-Functionalized Organic Electrochemical Transistors. Advanced Materials, 2022, 34, . | 21.0 | 36 |
| 27 | Single Atom Selenium Substitution-Mediated p-Type Doping in Polythiophenes toward High-Performance Organic Electronics and Thermoelectrics. Advanced Electronic Materials, 2022, 8, . | 5.1 | 4 |
| 28 | Conjugated Polymers for Microwave Applications: Untethered Sensing Platforms and Multifunctional Devices. Advanced Materials, 2022, 34, . | 21.0 | 11 |
| 29 | Water-Insensitive Electron Transport and Photoactive Layers for Improved Underwater Stability of Organic Photovoltaics. Advanced Functional Materials, 2022, 32, . | 14.9 | 8 |
| 30 | Highly Deformed o-Carborane Functionalised Non-Linear Polycyclic Aromatics with Exceptionally Long C-C Bonds. Chemistry - A European Journal, 2021, 27, 1970-1975. | 3.3 | 8 |
| 31 | Scaling-up perovskite solar cells on hydrophobic surfaces. Nano Energy, 2021, 81, 105633. | 16.0 | 46 |
| 32 | Linking Glass-Transition Behavior to Photophysical and Charge Transport Properties of High-Mobility Conjugated Polymers. Advanced Functional Materials, 2021, 31, 2007359. | 14.9 | 26 |
| 33 | Polaron Delocalization in Donor-Acceptor Polymers and its Impact on Organic Electrochemical Transistor Performance. Angewandte Chemie - International Edition, 2021, 60, 7777-7785. | 13.8 | 84 |
| 34 | Polaron Delocalization in Donor-Acceptor Polymers and its Impact on Organic Electrochemical Transistor Performance. Angewandte Chemie, 2021, 133, 7856-7864. | 2.0 | 16 |
| 35 | Acene Ring Size Optimization in Fused Lactam Polymers Enabling High n-Type Organic Thermoelectric Performance. Journal of the American Chemical Society, 2021, 143, 260-268. | 13.7 | 68 |
| 36 | Intrinsic efficiency limits in low-bandgap non-fullerene acceptor organic solar cells. Nature Materials, 2021, 20, 378-384. | 27.5 | 257 |

| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 37 | N-Doping improves charge transport and morphology in the organic non-fullerene acceptor O-IDTBR. Journal of Materials Chemistry C, 2021, 9, 4486-4495. | 5.5 | 17 |
| 38 | Non-fullerene-based organic photodetectors for infrared communication. Journal of Materials Chemistry C, 2021, 9, 2375-2380. | 5.5 | 37 |
| 39 | Coupling molecular rigidity and flexibility on fused backbones for NIR-II photothermal conversion. Chemical Science, 2021, 12, 5177-5184. | 7.4 | 32 |
| 40 | Operation mechanism of organic electrochemical transistors as redox chemical transducers. Journal of Materials Chemistry C, 2021, 9, 12148-12158. | 5.5 | 17 |
| 41 | A molecular interactionâ€“diffusion framework for predicting organic solar cell stability. Nature Materials, 2021, 20, 525-532. | 27.5 | 212 |
| 42 | Influence of Side Chains on the n-Type Organic Electrochemical Transistor Performance. ACS Applied Materials & Interfaces, 2021, 13, 4253-4266. | 8.0 | 76 |
| 43 | Microfluidics integrated n-type organic electrochemical transistor for metabolite sensing. Sensors and Actuators B: Chemical, 2021, 329, 129251. | 7.8 | 35 |
| 44 | n-Type Rigid Semiconducting Polymers Bearing Oligo(Ethylene Glycol) Side Chains for High-Performance Organic Electrochemical Transistors. Angewandte Chemie, 2021, 133, 9454-9459. | 2.0 | 17 |
| 45 | n-Type Rigid Semiconducting Polymers Bearing Oligo(Ethylene Glycol) Side Chains for High-Performance Organic Electrochemical Transistors. Angewandte Chemie - International Edition, 2021, 60, 9368-9373. | 13.8 | 84 |
| 46 | High-Gain Chemically Gated Organic Electrochemical Transistor. Advanced Functional Materials, 2021, 31, 2010868. | 14.9 | 46 |
| 47 | Microfluidic Integrated Organic Electrochemical Transistor with a Nanoporous Membrane for Amyloid-Î² Detection. ACS Nano, 2021, 15, 8130-8141. | 14.6 | 59 |
| 48 | Challenges to the Success of Commercial Organic Photovoltaic Products. Advanced Energy Materials, 2021, 11, 2100056. | 19.5 | 65 |
| 49 | Adjusting the energy of interfacial states in organic photovoltaics for maximum efficiency. Nature Communications, 2021, 12, 1772. | 12.8 | 27 |
| 50 | Mixed Conduction in an n-Type Organic Semiconductor in the Absence of Hydrophilic Side-Chains. Advanced Functional Materials, 2021, 31, 2010165. | 14.9 | 71 |
| 51 | Correlating Charge-Transfer State Lifetimes with Material Energetics in Polymer:Non-Fullerene Acceptor Organic Solar Cells. Journal of the American Chemical Society, 2021, 143, 7599-7603. | 13.7 | 59 |
| 52 | Charge transport physics of a unique class of rigid-rod conjugated polymers with fused-ring conjugated units linked by double carbon-carbon bonds. Science Advances, 2021, 7, . | 10.3 | 28 |
| 53 | Controlling Electrochemically Induced Volume Changes in Conjugated Polymers by Chemical Design: from Theory to Devices. Advanced Functional Materials, 2021, 31, 2100723. | 14.9 | 35 |
| 54 | Influence of alkyne spacers on the performance of thiophene-based donors in bulk-heterojunction organic photovoltaic cells. Dyes and Pigments, 2021, 188, 109152. | 3.7 | 9 |

| # | ARTICLE | IF | CITATIONS |
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| 55 | Suppressing bias stress degradation in high performance solution processed organic transistors operating in air. <i>Nature Communications</i> , 2021, 12, 2352. | 12.8 | 48 |
| 56 | Inkjet Printed Circuits with 2D Semiconductor Inks for High-Performance Electronics. <i>Advanced Electronic Materials</i> , 2021, 7, 2100112. | 5.1 | 46 |
| 57 | Rapid single-molecule detection of COVID-19 and MERS antigens via nanobody-functionalized organic electrochemical transistors. <i>Nature Biomedical Engineering</i> , 2021, 5, 666-677. | 22.5 | 235 |
| 58 | Impact of Acceptor Quadrupole Moment on Charge Generation and Recombination in Blends of IDT-Based Non-Fullerene Acceptors with PCE10 as Donor Polymer. <i>Advanced Energy Materials</i> , 2021, 11, 2100839. | 19.5 | 23 |
| 59 | Regiochemistry-Driven Organic Electrochemical Transistor Performance Enhancement in Ethylene Glycol-Functionalized Polythiophenes. <i>Journal of the American Chemical Society</i> , 2021, 143, 11007-11018. | 13.7 | 74 |
| 60 | Concurrent cationic and anionic perovskite defect passivation enables 27.4% perovskite/silicon tandems with suppression of halide segregation. <i>Joule</i> , 2021, 5, 1566-1586. | 24.0 | 119 |
| 61 | Elucidating the Role of Water-Related Traps in the Operation of Polymer Field-Effect Transistors. <i>Advanced Electronic Materials</i> , 2021, 7, 2100393. | 5.1 | 13 |
| 62 | Ternary organic photodetectors based on pseudo-binaries nonfullerene-based acceptors. <i>JPhys Materials</i> , 2021, 4, 045001. | 4.2 | 9 |
| 63 | Non-fullerene acceptor photostability and its impact on organic solar cell lifetime. <i>Cell Reports Physical Science</i> , 2021, 2, 100498. | 5.6 | 35 |
| 64 | Ion Pair Uptake in Ion Gel Devices Based on Organic Mixed Ionic-Electronic Conductors. <i>Advanced Functional Materials</i> , 2021, 31, 2104301. | 14.9 | 35 |
| 65 | Ambipolar inverters based on cofacial vertical organic electrochemical transistor pairs for biosignal amplification. <i>Science Advances</i> , 2021, 7, eabh1055. | 10.3 | 46 |
| 66 | Design of experiment optimization of aligned polymer thermoelectrics doped by ion-exchange. <i>Applied Physics Letters</i> , 2021, 119, . | 3.3 | 10 |
| 67 | A molecular design approach towards elastic and multifunctional polymer electronics. <i>Nature Communications</i> , 2021, 12, 5701. | 12.8 | 75 |
| 68 | Low-Defect, High Molecular Weight Indacenodithiophene (IDT) Polymers Via a C-H Activation: Evaluation of a Simpler and Greener Approach to Organic Electronic Materials. , 2021, 3, 1503-1512. | | 19 |
| 69 | The Effect of Alkyl Spacers on the Mixed Ionic-Electronic Conduction Properties of N-Type Polymers. <i>Advanced Functional Materials</i> , 2021, 31, 2008718. | 14.9 | 67 |
| 70 | n-Type organic semiconducting polymers: stability limitations, design considerations and applications. <i>Journal of Materials Chemistry C</i> , 2021, 9, 8099-8128. | 5.5 | 123 |
| 71 | Electrolyte-gated transistors for enhanced performance bioelectronics. <i>Nature Reviews Methods Primers</i> , 2021, 1, . | 21.2 | 172 |
| 72 | Chemical Design Rules for Non-Fullerene Acceptors in Organic Solar Cells. <i>Advanced Energy Materials</i> , 2021, 11, 2102363. | 19.5 | 38 |

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|----|--|------|-----------|
| 73 | Unraveling the Unconventional Order of a High-Mobility Indacenodithiophene-Benzothiadiazole Copolymer. ACS Macro Letters, 2021, 10, 1306-1314. | 4.8 | 20 |
| 74 | Printed Memtransistor Utilizing a Hybrid Perovskite/Organic Heterojunction Channel. ACS Applied Materials & Interfaces, 2021, 13, 51592-51601. | 8.0 | 9 |
| 75 | Aldol Polymerization to Construct Half-Fused Semiconducting Polymers. Macromolecules, 2021, 54, 10312-10320. | 4.8 | 15 |
| 76 | Chemical Design Rules for Non-Fullerene Acceptors in Organic Solar Cells (Adv. Energy Mater.) Tj ETQq0 0 0 rgBT / Overlock 10 Tf 50 6 | 19.5 | 2 |
| 77 | Organic neuromorphic electronics for sensorimotor integration and learning in robotics. Science Advances, 2021, 7, eabl5068. | 10.3 | 54 |
| 78 | Reversible Electronic Solid-Gel Switching of a Conjugated Polymer. Advanced Science, 2020, 7, 1901144. | 11.2 | 45 |
| 79 | A universal solution processed interfacial bilayer enabling ohmic contact in organic and hybrid optoelectronic devices. Energy and Environmental Science, 2020, 13, 268-276. | 30.8 | 40 |
| 80 | Afterglow Effects as a Tool to Screen Emissive Nongeminate Charge Recombination Processes in Organic Photovoltaic Composites. ACS Applied Materials & Interfaces, 2020, 12, 2695-2707. | 8.0 | 5 |
| 81 | The role of chemical design in the performance of organic semiconductors. Nature Reviews Chemistry, 2020, 4, 66-77. | 30.2 | 444 |
| 82 | Biofuel powered glucose detection in bodily fluids with an n-type conjugated polymer. Nature Materials, 2020, 19, 456-463. | 27.5 | 187 |
| 83 | Modification of Indacenodithiophene-Based Polymers and Its Impact on Charge Carrier Mobility in Organic Thin-Film Transistors. Journal of the American Chemical Society, 2020, 142, 652-664. | 13.7 | 101 |
| 84 | Low-Temperature Cross-Linking Benzocyclobutene Based Polymer Dielectric for Organic Thin Film Transistors on Plastic Substrates. Journal of Organic Chemistry, 2020, 85, 277-283. | 3.2 | 17 |
| 85 | Phototuning Selectively Hole and Electron Transport in Optically Switchable Ambipolar Transistors. Advanced Functional Materials, 2020, 30, 1908944. | 14.9 | 27 |
| 86 | Energetic Disorder and Activation Energy in Efficient Ternary Organic Solar Cells with Nonfullerene Acceptor Eh-IDTBR as the Third Component. Solar Rrl, 2020, 4, 1900403. | 5.8 | 47 |
| 87 | Slow charge transfer from pentacene triplet states at the Marcus optimum. Nature Chemistry, 2020, 12, 63-70. | 13.6 | 36 |
| 88 | Nonfullerene-Based Organic Photodetectors for Ultrahigh Sensitivity Visible Light Detection. ACS Applied Materials & Interfaces, 2020, 12, 48836-48844. | 8.0 | 40 |
| 89 | Organic Solar Cells: Exciton and Charge Carrier Dynamics in Highly Crystalline PTQ10:IDIC Organic Solar Cells (Adv. Energy Mater. 38/2020). Advanced Energy Materials, 2020, 10, 2070158. | 19.5 | 2 |
| 90 | Long-range exciton diffusion in molecular non-fullerene acceptors. Nature Communications, 2020, 11, 5220. | 12.8 | 204 |

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| 91 | Exciton and Charge Carrier Dynamics in Highly Crystalline PTQ10:IDIC Organic Solar Cells. <i>Advanced Energy Materials</i> , 2020, 10, 2001149. | 19.5 | 40 |
| 92 | Effects of Fluorination on Fused Ring Electron Acceptor for Active Layer Morphology, Exciton Dissociation, and Charge Recombination in Organic Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 56231-56239. | 8.0 | 15 |
| 93 | Resolving Different Physical Origins toward Crystallite Imperfection in Semiconducting Polymers: Crystallite Size vs Paracrystallinity. <i>Journal of Physical Chemistry B</i> , 2020, 124, 10529-10538. | 2.6 | 12 |
| 94 | The Chemistry and Applications of Heteroisindigo Units as Enabling Links for Semiconducting Materials. <i>Accounts of Chemical Research</i> , 2020, 53, 2855-2868. | 15.6 | 46 |
| 95 | Side Chain Redistribution as a Strategy to Boost Organic Electrochemical Transistor Performance and Stability. <i>Advanced Materials</i> , 2020, 32, e2002748. | 21.0 | 181 |
| 96 | The effect of aromatic ring size in electron deficient semiconducting polymers for n-type organic thermoelectrics. <i>Journal of Materials Chemistry C</i> , 2020, 8, 15150-15157. | 5.5 | 28 |
| 97 | Ethylene Glycol-Based Side Chain Length Engineering in Polythiophenes and its Impact on Organic Electrochemical Transistor Performance. <i>Chemistry of Materials</i> , 2020, 32, 6618-6628. | 6.7 | 92 |
| 98 | Hidden Perils of Lead in the Lab: Guidelines for Containing, Monitoring, and Decontaminating Lead in the Context of Perovskite Research. <i>Chemistry of Materials</i> , 2020, 32, 7141-7149. | 6.7 | 3 |
| 99 | Tracking Charge Transfer to Residual Metal Clusters in Conjugated Polymers for Photocatalytic Hydrogen Evolution. <i>Journal of the American Chemical Society</i> , 2020, 142, 14574-14587. | 13.7 | 118 |
| 100 | The Bulk Heterojunction in Organic Photovoltaic, Photodetector, and Photocatalytic Applications. <i>Advanced Materials</i> , 2020, 32, e2001763. | 21.0 | 168 |
| 101 | Thermally Induced Formation of HF ₄ TCNQ ⁺ in F ₄ TCNQ-Doped Regioregular P3HT. <i>Journal of Physical Chemistry Letters</i> , 2020, 11, 6586-6592. | 4.6 | 13 |
| 102 | Low-Voltage, Dual-Gate Organic Transistors with High Sensitivity and Stability toward Electrostatic Biosensing. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 40581-40589. | 8.0 | 26 |
| 103 | Ion Coordination and Chelation in a Glycolated Polymer Semiconductor: Molecular Dynamics and X-ray Fluorescence Study. <i>Chemistry of Materials</i> , 2020, 32, 7301-7308. | 6.7 | 21 |
| 104 | High-Performance Perovskite Single-Junction and Textured Perovskite/Silicon Tandem Solar Cells via Slot-Die-Coating. <i>ACS Energy Letters</i> , 2020, 5, 3034-3040. | 17.4 | 134 |
| 105 | Photocatalysts Based on Organic Semiconductors with Tunable Energy Levels for Solar Fuel Applications. <i>Advanced Energy Materials</i> , 2020, 10, 2001935. | 19.5 | 92 |
| 106 | A Multilayered Electron Extracting System for Efficient Perovskite Solar Cells. <i>Advanced Functional Materials</i> , 2020, 30, 2004273. | 14.9 | 17 |
| 107 | Correlating the Phase Behavior with the Device Performance in Binary Poly-3-hexylthiophene: Nonfullerene Acceptor Blend Using Optical Probes of the Microstructure. <i>Chemistry of Materials</i> , 2020, 32, 8294-8305. | 6.7 | 21 |
| 108 | The role of exciton lifetime for charge generation in organic solar cells at negligible energy-level offsets. <i>Nature Energy</i> , 2020, 5, 711-719. | 39.5 | 214 |

| # | ARTICLE | IF | CITATIONS |
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| 109 | High-density polyethylene“an inert additive with stabilizing effects on organic field-effect transistors. Journal of Materials Chemistry C, 2020, 8, 15406-15415. | 5.5 | 15 |
| 110 | Self-Assembled Monolayer Enables Hole Transport Layer-Free Organic Solar Cells with 18% Efficiency and Improved Operational Stability. ACS Energy Letters, 2020, 5, 2935-2944. | 17.4 | 425 |
| 111 | Anisotropy of Charge Transport in a Uniaxially Aligned Fused Electron“Deficient Polymer Processed by Solution Shear Coating. Advanced Materials, 2020, 32, e2000063. | 21.0 | 38 |
| 112 | Metal-free polymerization: synthesis and properties of fused benzo[1,2- <i>b</i> :4,5- <i>b</i> “bis[<i>b</i>]benzothiophene (BBBT) polymers. Polymer Chemistry, 2020, 11, 3695-3700. | 3.9 | 6 |
| 113 | Side-chain tuning in conjugated polymer photocatalysts for improved hydrogen production from water. Energy and Environmental Science, 2020, 13, 1843-1855. | 30.8 | 92 |
| 114 | Engineering Optically Switchable Transistors with Improved Performance by Controlling Interactions of Diarylethenes in Polymer Matrices. Journal of the American Chemical Society, 2020, 142, 11050-11059. | 13.7 | 37 |
| 115 | Water stable molecular n-doping produces organic electrochemical transistors with high transconductance and record stability. Nature Communications, 2020, 11, 3004. | 12.8 | 82 |
| 116 | Large“Area Uniform Polymer Transistor Arrays on Flexible Substrates: Towards High“Throughput Sensor Fabrication. Advanced Materials Technologies, 2020, 5, 2000390. | 5.8 | 19 |
| 117 | Correlating the Structural and Photophysical Properties of <i>Ortho</i> , <i>Meta</i> , and <i>Para</i> “Carboranyl“Anthracene Dyads. Advanced Electronic Materials, 2020, 6, 2000312. | 5.1 | 13 |
| 118 | Monitoring supported lipid bilayers with n-type organic electrochemical transistors. Materials Horizons, 2020, 7, 2348-2358. | 12.2 | 42 |
| 119 | Exploiting Ternary Blends for Improved Photostability in High-Efficiency Organic Solar Cells. ACS Energy Letters, 2020, 5, 1371-1379. | 17.4 | 126 |
| 120 | Pulse Oximetry Using Organic Optoelectronics under Ambient Light. Advanced Materials Technologies, 2020, 5, 1901122. | 5.8 | 50 |
| 121 | Temperature-resilient solid-state organic artificial synapses for neuromorphic computing. Science Advances, 2020, 6, . | 10.3 | 131 |
| 122 | Organic thin-film transistors with flame-annealed contacts. Flexible and Printed Electronics, 2020, 5, 014015. | 2.7 | 5 |
| 123 | Energetic Control of Redox“Active Polymers toward Safe Organic Bioelectronic Materials. Advanced Materials, 2020, 32, e1908047. | 21.0 | 124 |
| 124 | 17.1% Efficient Single“unction Organic Solar Cells Enabled by n“Type Doping of the Bulk“Heterojunction. Advanced Science, 2020, 7, 1903419. | 11.2 | 173 |
| 125 | Conjugated Polymers: Reversible Electronic Solid“Gel Switching of a Conjugated Polymer (Adv. Sci.) Tj ETQq1 1 0,784314 rgBT /Overl | 11.2 | 1 |
| 126 | Balancing Ionic and Electronic Conduction for High“Performance Organic Electrochemical Transistors. Advanced Functional Materials, 2020, 30, 1907657. | 14.9 | 131 |

| # | ARTICLE | IF | CITATIONS |
|-----|---|------|-----------|
| 127 | Influence of Polymer Aggregation and Liquid Immiscibility on Morphology Tuning by Varying Composition in PffBT4Tâ€2DT/Nonfullerene Organic Solar Cells. Advanced Energy Materials, 2020, 10, 1903248. | 19.5 | 23 |
| 128 | Universal Spray-Deposition Process for Scalable, High-Performance, and Stable Organic Electrochemical Transistors. ACS Applied Materials & Interfaces, 2020, 12, 20757-20764. | 8.0 | 48 |
| 129 | Enhanced photocatalytic hydrogen evolution from organic semiconductor heterojunction nanoparticles. Nature Materials, 2020, 19, 559-565. | 27.5 | 366 |
| 130 | Influence of Polymer Aggregation and Liquid Immiscibility on Morphology Tuning by Varying Composition in PffBT4T-2DT/Non-Fullerene Organic Solar Cells. Advanced Energy Materials, 2020, 10, . | 19.5 | 0 |
| 131 | Fused Pyrazineâ€and Carbazoleâ€Containing Azaacenes: Synthesis and Properties. ChemPlusChem, 2019, 84, 1257-1262. | 2.8 | 5 |
| 132 | Impact of Nonfullerene Acceptor Side Chain Variation on Transistor Mobility. Advanced Electronic Materials, 2019, 5, 1900344. | 5.1 | 45 |
| 133 | On the Role of Contact Resistance and Electrode Modification in Organic Electrochemical Transistors. Advanced Materials, 2019, 31, e1902291. | 21.0 | 52 |
| 134 | Heavy-Metal-Free Flexible Hybrid Polymer-Nanocrystal Photodetectors Sensitive to 1.5 Î¼m Wavelength. ACS Applied Materials & Interfaces, 2019, 11, 42571-42579. | 8.0 | 12 |
| 135 | The Effect of Ring Expansion in Thienobenzo[<i>b</i>]indacenodithiophene Polymers for Organic Field-Effect Transistors. Journal of the American Chemical Society, 2019, 141, 18806-18813. | 13.7 | 45 |
| 136 | 17% Efficient Organic Solar Cells Based on Liquid Exfoliated WS ₂ as a Replacement for PEDOT:PSS. Advanced Materials, 2019, 31, e1902965. | 21.0 | 500 |
| 137 | Hybrid Alkylâ€Ethylene Glycol Side Chains Enhance Substrate Adhesion and Operational Stability in Accumulation Mode Organic Electrochemical Transistors. Chemistry of Materials, 2019, 31, 9797-9806. | 6.7 | 97 |
| 138 | Enhancing the Charge Extraction and Stability of Perovskite Solar Cells Using Strontium Titanate (SrTiO ₃) Electron Transport Layer. ACS Applied Energy Materials, 2019, 2, 8090-8097. | 5.1 | 51 |
| 139 | Carrier Extraction from Perovskite to Polymeric Charge Transport Layers Probed by Ultrafast Transient Absorption Spectroscopy. Journal of Physical Chemistry Letters, 2019, 10, 6921-6928. | 4.6 | 19 |
| 140 | An Intrinsically Stretchable Highâ€Performance Polymer Semiconductor with Low Crystallinity. Advanced Functional Materials, 2019, 29, 1905340. | 14.9 | 120 |
| 141 | Use of the Phenâ€NaDPO:Sn(SCN) ₂ Blend as Electron Transport Layer Results to Consistent Efficiency Improvements in Organic and Hybrid Perovskite Solar Cells. Advanced Functional Materials, 2019, 29, 1905810. | 14.9 | 41 |
| 142 | Membraneâ€Free Detection of Metal Cations with an Organic Electrochemical Transistor. Advanced Functional Materials, 2019, 29, 1904403. | 14.9 | 80 |
| 143 | Nanoscale Ion-Doped Polymer Transistors. Nano Letters, 2019, 19, 1712-1718. | 9.1 | 25 |
| 144 | Solvent Engineering for Highâ€Performance nâ€Type Organic Electrochemical Transistors. Advanced Electronic Materials, 2019, 5, 1900249. | 5.1 | 59 |

| # | ARTICLE | IF | CITATIONS |
|-----|--|------|-----------|
| 145 | End Group Tuning in Acceptor–Donor–Acceptor Nonfullerene Small Molecules for High Fill Factor Organic Solar Cells. <i>Advanced Functional Materials</i> , 2019, 29, 1808429. | 14.9 | 41 |
| 146 | Polaron spin dynamics in high-mobility polymeric semiconductors. <i>Nature Physics</i> , 2019, 15, 814-822. | 16.7 | 40 |
| 147 | Suppression of Recombination Losses in Polymer:Nonfullerene Acceptor Organic Solar Cells due to Aggregation Dependence of Acceptor Electron Affinity. <i>Advanced Energy Materials</i> , 2019, 9, 1901254. | 19.5 | 54 |
| 148 | Short contacts between chains enhancing luminescence quantum yields and carrier mobilities in conjugated copolymers. <i>Nature Communications</i> , 2019, 10, 2614. | 12.8 | 60 |
| 149 | High-mobility, trap-free charge transport in conjugated polymer diodes. <i>Nature Communications</i> , 2019, 10, 2122. | 12.8 | 92 |
| 150 | Charge carrier transport and nanomorphology control for efficient non-fullerene organic solar cells. <i>Materials Today Energy</i> , 2019, 12, 398-407. | 4.7 | 23 |
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