

# C Daniel Frisbie

## List of Publications by Year in descending order

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240  
papers

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citations

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times ranked

22308  
citing authors

| #  | ARTICLE  | IF   | CITATIONS |
|----|--|------|-----------|
| 1  | Sub-Band Filling, Mott-like Transitions, and Ion Size Effects in $C_{60}$ Single Crystal Electric Double Layer Transistors. ACS Nano, 2022, 16, 4823-4830.   | 7.3  | 10        |
| 2  | Sub-3 V, MHz-Class Electrolyte-Gated Transistors and Inverters. ACS Applied Materials & Interfaces, 2022, 14, 21295-21300.   | 4.0  | 6         |
| 3  | Alumina Graphene Catalytic Condenser for Programmable Solid Acids. JACS Au, 2022, 2, 1123-1133.  | 3.6  | 9         |
| 4  | Quantitative analysis of weak current rectification in molecular tunnel junctions subject to mechanical deformation reveals two different rectification mechanisms for oligophenylene thiols versus alkane thiols. Nanoscale, 2021, 13, 16755-16768. | 2.8  | 9         |
| 5  | Quantifying Molecular Structure-Tunneling Conductance Relationships: Oligophenylene Dimethanethiol vs Oligophenylene Dithiol Molecular Junctions. Journal of Physical Chemistry C, 2021, 125, 4292-4298.   | 1.5  | 25        |
| 6  | Modeling of Quasi-Static Floating-Gate Transistor Biosensors. ACS Sensors, 2021, 6, 1910-1917.   | 4.0  | 4         |
| 7  | Site-specific chemical doping reveals electron atmospheres at the surfaces of organic semiconductor crystals. Nature Materials, 2021, 20, 1532-1538.   | 13.3 | 21        |
| 8  | Hopping Conductance in Molecular Wires Exhibits a Large Heavy-Atom Kinetic Isotope Effect. Journal of the American Chemical Society, 2021, 143, 2638-2643.   | 6.6  | 17        |
| 9  | Solution-based, additive fabrication of flush metal conductors in plastic substrates by printing and plating in two-level capillary channels. Flexible and Printed Electronics, 2021, 6, 045005.   | 1.5  | 3         |
| 10 | Electrolyte-gated transistors for enhanced performance bioelectronics. Nature Reviews Methods Primers, 2021, 1, .  | 11.8 | 172       |
| 11 | Quantifying Image Charge Effects in Molecular Tunnel Junctions Based on Self-Assembled Monolayers of Substituted Oligophenylene Ethynylene Dithiols. ACS Applied Materials & Interfaces, 2021, 13, 56404-56412.                                      | 4.0  | 6         |
| 12 | Sub-3 V ZnO Electrolyte-Gated Transistors and Circuits with Screen-Printed and Photo-Crosslinked Ion Gel Gate Dielectrics: New Routes to Improved Performance. Advanced Functional Materials, 2020, 30, 1902028.                                     | 7.8  | 49        |
| 13 | Inkjet-printed, self-aligned organic Schottky diodes on imprinted plastic substrates. Flexible and Printed Electronics, 2020, 5, 015006.   | 1.5  | 15        |
| 14 | Strain-Work Function Relationship in Single-Crystal Tetracene. ACS Applied Materials & Interfaces, 2020, 12, 40607-40612.  | 4.0  | 7         |
| 15 | The Catalytic Mechanics of Dynamic Surfaces: Stimulating Methods for Promoting Catalytic Resonance. ACS Catalysis, 2020, 10, 12666-12695.  | 5.5  | 54        |
| 16 | Self-Aligned Capillarity-Assisted Printing of High Aspect Ratio Flexible Metal Conductors: Optimizing Ink Flow, Plating, and Mechanical Adhesion. Industrial & Engineering Chemistry Research, 2020, 59, 22107-22122.                                | 1.8  | 8         |
| 17 | Microfluidic opportunities in printed electrolyte-gated transistor biosensors. Biomicrofluidics, 2020, 14, 011301.   | 1.2  | 19        |
| 18 | Field Effect Modulation of Electrocatalytic Hydrogen Evolution at Back-Gated Two-Dimensional $MoS_2$ Electrodes. Nano Letters, 2019, 19, 6118-6123.  | 4.5  | 40        |

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|----|--|------|-----------|
| 19 | Energy Level Alignment in Molecular Tunnel Junctions by Transport and Spectroscopy: Self-Consistency for the Case of Alkyl Thiols and Dithiols on Ag, Au, and Pt Electrodes. <i>Journal of the American Chemical Society</i> , 2019, 141, 18182-18192.                         | 6.6  | 68        |
| 20 | Detection and amplification of capacitance- and charge-based signals using printed electrolyte gated transistors with floating gates. <i>Flexible and Printed Electronics</i> , 2019, 4, 044001.   | 1.5  | 5         |
| 21 | Determination of Energy-Level Alignment in Molecular Tunnel Junctions by Transport and Spectroscopy: Self-Consistency for the Case of Oligophenylene Thiols and Dithiols on Ag, Au, and Pt Electrodes. <i>Journal of the American Chemical Society</i> , 2019, 141, 3670-3681. | 6.6  | 90        |
| 22 | Electric-field effect on photoluminescence of lead-halide perovskites. <i>Materials Today</i> , 2019, 28, 31-39.   | 8.3  | 21        |
| 23 | Gate-Tuned Insulator-Metal Transition in Electrolyte-Gated Transistors Based on Tellurene. <i>Nano Letters</i> , 2019, 19, 4738-4744.  | 4.5  | 48        |
| 24 | Freestanding Ion Gels for Flexible, Printed, Multifunctional Microsupercapacitors. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 9947-9954.  | 4.0  | 27        |
| 25 | Continuous and Reversible Tuning of Electrochemical Reaction Kinetics on Back-Gated 2D Semiconductor Electrodes: Steady-State Analysis Using a Hydrodynamic Method. <i>Analytical Chemistry</i> , 2019, 91, 1627-1635.   | 3.2  | 15        |
| 26 | Mechanical Deformation Distinguishes Tunneling Pathways in Molecular Junctions. <i>Journal of the American Chemical Society</i> , 2019, 141, 497-504.  | 6.6  | 21        |
| 27 | Interfacial Charge Contributions to Chemical Sensing by Electrolyte-Gated Transistors with Floating Gates. <i>Journal of Physical Chemistry Letters</i> , 2018, 9, 1335-1339.  | 2.1  | 19        |
| 28 | All-Printed, Self-Aligned Carbon Nanotube Thin-Film Transistors on Imprinted Plastic Substrates. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 15926-15932.  | 4.0  | 33        |
| 29 | HOMO Level Pinning in Molecular Junctions: Joint Theoretical and Experimental Evidence. <i>Journal of Physical Chemistry Letters</i> , 2018, 9, 2394-2403.   | 2.1  | 45        |
| 30 | Why one can expect large rectification in molecular junctions based on alkane monothiols and why rectification is so modest. <i>Chemical Science</i> , 2018, 9, 4456-4467.   | 3.7  | 49        |
| 31 | Detection and Sourcing of Gluten in Grain with Multiple Floating-Gate Transistor Biosensors. <i>ACS Sensors</i> , 2018, 3, 395-402.  | 4.0  | 30        |
| 32 | Critical assessment of charge mobility extraction in FETs. <i>Nature Materials</i> , 2018, 17, 2-7.  | 13.3 | 571       |
| 33 | Work function and temperature dependence of electron tunneling through an N-type perylene diimide molecular junction with isocyanide surface linkers. <i>Nanoscale</i> , 2018, 10, 964-975.  | 2.8  | 49        |
| 34 | Open-channel microfluidic diodes based on two-tier junctions. <i>Applied Physics Letters</i> , 2018, 113, .  | 1.5  | 6         |
| 35 | High-Resolution, High-Aspect-Ratio Printed and Plated Metal Conductors Utilizing Roll-to-Roll Microscale UV Imprinting with Prototype Imprinting Stamps. <i>Industrial &amp; Engineering Chemistry Research</i> , 2018, 57, 16335-16346.                                       | 1.8  | 17        |
| 36 | Self-aligned inkjet printing of resistors and low-pass resistor-capacitor filters on roll-to-roll imprinted plastics with resistances ranging from 10 to 10 <sup>6</sup> Ω. <i>Flexible and Printed Electronics</i> , 2018, 3, 045003.   | 1.5  | 18        |

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|----|---|------|-----------|
| 37 | Crystal step edges can trap electrons on the surfaces of n-type organic semiconductors. <i>Nature Communications</i> , 2018, 9, 2141.   | 5.8  | 55        |
| 38 | Printed, 1 V electrolyte-gated transistors based on poly(3-hexylthiophene) operating at >10 kHz on plastic. <i>Applied Physics Letters</i> , 2018, 113, .   | 1.5  | 19        |
| 39 | Self-aligned capillarity-assisted printing of top-gate thin-film transistors on plastic. <i>Flexible and Printed Electronics</i> , 2018, 3, 035004.   | 1.5  | 13        |
| 40 | Anomalous Cooling-Rate-Dependent Charge Transport in Electrolyte-Gated Rubrene Crystals. <i>Journal of Physical Chemistry Letters</i> , 2018, 9, 4828-4833.   | 2.1  | 2         |
| 41 | Transfer Printing of Sub-5 $\mu$ m Graphene Electrodes for Flexible Microsupercapacitors. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 22303-22310.  | 4.0  | 34        |
| 42 | 2D Insulator-Metal Transition in Aerosol-Printed Electrolyte-Gated Indium Oxide Thin Film Transistors. <i>Advanced Electronic Materials</i> , 2017, 3, 1600369.   | 2.6  | 38        |
| 43 | Exceptionally Small Statistical Variations in the Transport Properties of Metal-Molecule-Metal Junctions Composed of 80 Oligophenylene Dithiol Molecules. <i>Journal of the American Chemical Society</i> , 2017, 139, 5696-5699. | 6.6  | 45        |
| 44 | Rubrene Single-Crystal Transistors with Perfluoropolyether Liquid Dielectric: Exploiting Free Dipoles to Induce Charge Carriers at Organic Surfaces. <i>Journal of Physical Chemistry C</i> , 2017, 121, 6540-6545.               | 1.5  | 6         |
| 45 | Scanning Kelvin Probe Microscopy Reveals Planar Defects Are Sources of Electronic Disorder in Organic Semiconductor Crystals. <i>Advanced Electronic Materials</i> , 2017, 3, 1700117.  | 2.6  | 8         |
| 46 | Scalable, Self-Aligned Printing of Flexible Graphene Micro-Supercapacitors. <i>Advanced Energy Materials</i> , 2017, 7, 1700285.  | 10.2 | 167       |
| 47 | Negative Isotope Effect on Field-Effect Hole Transport in Fully Substituted $^{13}\text{C}$ -Rubrene. <i>Advanced Electronic Materials</i> , 2017, 3, 1700018.  | 2.6  | 32        |
| 48 | Effect of Heteroatom Substitution on Transport in Alkanedithiol-Based Molecular Tunnel Junctions: Evidence for Universal Behavior. <i>ACS Nano</i> , 2017, 11, 569-578.   | 7.3  | 54        |
| 49 | Printable, Degradable, and Biocompatible Ion Gels from a Renewable ABA Triblock Polyester and a Low Toxicity Ionic Liquid. <i>ACS Macro Letters</i> , 2017, 6, 1083-1088.   | 2.3  | 41        |
| 50 | Field Effect Modulation of Heterogeneous Charge Transfer Kinetics at Back-Gated Two-Dimensional MoS <sub>2</sub> Electrodes. <i>Nano Letters</i> , 2017, 17, 7586-7592.   | 4.5  | 27        |
| 51 | High-Resolution Transfer Printing of Graphene Lines for Fully Printed, Flexible Electronics. <i>ACS Nano</i> , 2017, 11, 7431-7439.   | 7.3  | 116       |
| 52 | Theory of magnetoresistance of organic molecular tunnel junctions with nonmagnetic electrodes. <i>Physical Review B</i> , 2017, 95, .   | 1.1  | 6         |
| 53 | Charge Transport in 4 nm Molecular Wires with Interrupted Conjugation: Combined Experimental and Computational Evidence for Thermally Assisted Polaron Tunneling. <i>ACS Nano</i> , 2016, 10, 4372-4383.                          | 7.3  | 56        |
| 54 | Characterization of the Electric Double Layer Formation Dynamics of a Metal/Ionic Liquid/Metal Structure. <i>ACS Applied Materials &amp; Interfaces</i> , 2016, 8, 14879-14884.   | 4.0  | 25        |

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|----|---|------|-----------|
| 55 | Comparison of DC and AC Transport in 1.5–7.5 nm Oligophenylene Imine Molecular Wires across Two Junction Platforms: Eutectic Ga–In versus Conducting Probe Atomic Force Microscope Junctions. <i>Journal of the American Chemical Society</i> , 2016, 138, 7305-7314. | 6.6  | 64        |
| 56 | Large Magnetoresistance at Room Temperature in Organic Molecular Tunnel Junctions with Nonmagnetic Electrodes. <i>ACS Nano</i> , 2016, 10, 8571-8577.   | 7.3  | 20        |
| 57 | Rapid, Selective, Label-Free Aptameric Capture and Detection of Ricin in Potable Liquids Using a Printed Floating Gate Transistor. <i>ACS Sensors</i> , 2016, 1, 1213-1216.   | 4.0  | 50        |
| 58 | Electrostatic <i>versus</i> Electrochemical Doping and Control of Ferromagnetism in Ion-Gel-Gated Ultrathin La <sub>0.5</sub> Sr <sub>0.5</sub> CoO <sub>3</sub> . <i>ACS Nano</i> , 2016, 10, 7799-7810.   | 7.3  | 81        |
| 59 | Electrochemiluminescent displays based on ion gels: correlation between device performance and choice of electrolyte. <i>Journal of Materials Chemistry C</i> , 2016, 4, 8448-8453.   | 2.7  | 48        |
| 60 | Quantitative Surface Coverage Measurements of Self-Assembled Monolayers by Nuclear Reaction Analysis of Carbon-12. <i>Journal of Physical Chemistry Letters</i> , 2016, 7, 3477-3481.   | 2.1  | 12        |
| 61 | Printed, Self-Aligned Side-Gate Organic Transistors with a Sub-5 Å Gate Channel Distance on Imprinted Plastic Substrates. <i>Advanced Electronic Materials</i> , 2016, 2, 1600293.  | 2.6  | 33        |
| 62 | Parasitic Capacitance Effect on Dynamic Performance of Aerosol-Jet-Printed Sub 2 V Poly(3-hexylthiophene) Electrolyte-Gated Transistors. <i>ACS Applied Materials &amp; Interfaces</i> , 2016, 8, 27012-27017.  | 4.0  | 40        |
| 63 | Field Effect Modulation of Outer-Sphere Electrochemistry at Back-Gated, Ultrathin ZnO Electrodes. <i>Journal of the American Chemical Society</i> , 2016, 138, 7220-7223.   | 6.6  | 26        |
| 64 | Designing a robust single-molecule switch. <i>Science</i> , 2016, 352, 1394-1395.   | 6.0  | 24        |
| 65 | Photoswitchable Hopping Transport in Molecular Wires 4 nm in Length. <i>Journal of Physical Chemistry C</i> , 2016, 120, 6442-6449.   | 1.5  | 37        |
| 66 | Multicolored, Low-Power, Flexible Electrochromic Devices Based on Ion Gels. <i>ACS Applied Materials &amp; Interfaces</i> , 2016, 8, 6252-6260.   | 4.0  | 202       |
| 67 | Strain effects on the work function of an organic semiconductor. <i>Nature Communications</i> , 2016, 7, 10270.   | 5.8  | 74        |
| 68 | Operating and Sensing Mechanism of Electrolyte-Gated Transistors with Floating Gates: Building a Platform for Amplified Biodetection. <i>Journal of Physical Chemistry C</i> , 2016, 120, 108-117.  | 1.5  | 46        |
| 69 | Measuring the Thickness and Potential Profiles of the Space-Charge Layer at Organic/Organic Interfaces under Illumination and in the Dark by Scanning Kelvin Probe Microscopy. <i>ACS Applied Materials &amp; Interfaces</i> , 2016, 8, 5772-5776.                    | 4.0  | 9         |
| 70 | Wettability Contrast Gravure Printing. <i>Advanced Materials</i> , 2015, 27, 7420-7425.   | 11.1 | 26        |
| 71 | A Self-Aligned Strategy for Printed Electronics: Exploiting Capillary Flow on Microstructured Plastic Surfaces. <i>Advanced Electronic Materials</i> , 2015, 1, 1500137.  | 2.6  | 43        |
| 72 | Homoepitaxial growth modes in textured, polycrystalline ultrathin pentacene films on dielectrics. <i>Physica Status Solidi (B): Basic Research</i> , 2015, 252, 1291-1299.  | 0.7  | 1         |

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|----|--|------|-----------|
| 73 | Uncovering a law of corresponding states for electron tunneling in molecular junctions. <i>Nanoscale</i> , 2015, 7, 10465-10471.   | 2.8  | 60        |
| 74 | Solution Processable, Electrochromic Ion Gels for Sub-1 V, Flexible Displays on Plastic. <i>Chemistry of Materials</i> , 2015, 27, 1420-1425.  | 3.2  | 219       |
| 75 | Label-Free DNA Sensing Platform with Low-Voltage Electrolyte-Gated Transistors. <i>Analytical Chemistry</i> , 2015, 87, 1861-1866.   | 3.2  | 63        |
| 76 | High-Resolution, High-Aspect Ratio Conductive Wires Embedded in Plastic Substrates. <i>ACS Applied Materials &amp; Interfaces</i> , 2015, 7, 1841-1847.  | 4.0  | 39        |
| 77 | Growth of Thin, Anisotropic, $\pi$ -Conjugated Molecular Films by Stepwise "Click" Assembly of Molecular Building Blocks: Characterizing Reaction Yield, Surface Coverage, and Film Thickness versus Addition Step Number. <i>Journal of the American Chemical Society</i> , 2015, 137, 8819-8828. | 6.6  | 17        |
| 78 | Synergistic Increase in Ionic Conductivity and Modulus of Triblock Copolymer Ion Gels. <i>Macromolecules</i> , 2015, 48, 4942-4950.  | 2.2  | 89        |
| 79 | Experimental and Theoretical Analysis of Nanotransport in Oligophenylene Dithiol Junctions as a Function of Molecular Length and Contact Work Function. <i>ACS Nano</i> , 2015, 9, 8022-8036.  | 7.3  | 152       |
| 80 | Screen Printing of Highly Loaded Silver Inks on Plastic Substrates Using Silicon Stencils. <i>ACS Applied Materials &amp; Interfaces</i> , 2015, 7, 12619-12624.   | 4.0  | 114       |
| 81 | Single Ion Conducting, Polymerized Ionic Liquid Triblock Copolymer Films: High Capacitance Electrolyte Gates for n-type Transistors. <i>ACS Applied Materials &amp; Interfaces</i> , 2015, 7, 7294-7302.   | 4.0  | 93        |
| 82 | All-Printed, Foldable Organic Thin-Film Transistors on Glassine Paper. <i>Advanced Materials</i> , 2015, 27, 7058-7064.  | 11.1 | 133       |
| 83 | Charge Saturation and Intrinsic Doping in Electrolyte-Gated Organic Semiconductors. <i>Journal of Physical Chemistry Letters</i> , 2015, 6, 4840-4844.   | 2.1  | 15        |
| 84 | Length-Dependent Nanotransport and Charge Hopping Bottlenecks in Long Thiophene-Containing $\pi$ -Conjugated Molecular Wires. <i>Journal of the American Chemical Society</i> , 2015, 137, 15732-15741.  | 6.6  | 76        |
| 85 | High-Resolution Patterning of Graphene by Screen Printing with a Silicon Stencil for Highly Flexible Printed Electronics. <i>Advanced Materials</i> , 2015, 27, 109-115.   | 11.1 | 430       |
| 86 | High Conductance 2D Transport around the Hall Mobility Peak in Electrolyte-Gated Rubrene Crystals. <i>Physical Review Letters</i> , 2014, 113, 246602.   | 2.9  | 39        |
| 87 | Aerosol Jet Printed, Sub-2 V Complementary Circuits Constructed from p- and n-Type Electrolyte Gated Transistors. <i>Advanced Materials</i> , 2014, 26, 7032-7037.   | 11.1 | 90        |
| 88 | Gravure Printing of Graphene for Large-Area Flexible Electronics. <i>Advanced Materials</i> , 2014, 26, 4533-4538.   | 11.1 | 298       |
| 89 | Facile Method for Fabricating Flexible Substrates with Embedded, Printed Silver Lines. <i>ACS Applied Materials &amp; Interfaces</i> , 2014, 6, 1306-1312.   | 4.0  | 21        |
| 90 | Hopping Transport and Rectifying Behavior in Long Donor-Acceptor Molecular Wires. <i>Journal of Physical Chemistry C</i> , 2014, 118, 26485-26497.   | 1.5  | 32        |

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|-----|--|------|-----------|
| 91  | Aerosol Jet Printed p- and n-type Electrolyte-Gated Transistors with a Variety of Electrode Materials: Exploring Practical Routes to Printed Electronics. <i>ACS Applied Materials &amp; Interfaces</i> , 2014, 6, 18704-18711.  | 4.0  | 73        |
| 92  | Tuning of HOMO energy levels and open circuit voltages in solar cells based on statistical copolymers prepared by ADMET polymerization. <i>Polymer Chemistry</i> , 2014, 5, 6287-6294.   | 1.9  | 12        |
| 93  | High Capacitance, Photo-Patternable Ion Gel Gate Insulators Compatible with Vapor Deposition of Metal Gate Electrodes. <i>ACS Applied Materials &amp; Interfaces</i> , 2014, 6, 19275-19281.   | 4.0  | 30        |
| 94  | Electronic Polarization at Pentacene/Polymer Dielectric Interfaces: Imaging Surface Potentials and Contact Potential Differences as a Function of Substrate Type, Growth Temperature, and Pentacene Microstructure. <i>Journal of Physical Chemistry C</i> , 2014, 118, 2487-2497. | 1.5  | 15        |
| 95  | Determination of Quantum Capacitance and Band Filling Potential in Graphene Transistors with Dual Electrochemical and Field-Effect Gates. <i>Journal of Physical Chemistry C</i> , 2014, 118, 21160-21169.   | 1.5  | 29        |
| 96  | Solution-Processable Electrochemiluminescent Ion Gels for Flexible, Low-Voltage, Emissive Displays on Plastic. <i>Journal of the American Chemical Society</i> , 2014, 136, 3705-3712.   | 6.6  | 204       |
| 97  | DC-Driven, Sub-2 V Solid-State Electrochemiluminescent Devices by Incorporating Redox Coreactants into Emissive Ion Gels. <i>Chemistry of Materials</i> , 2014, 26, 5358-5364.   | 3.2  | 52        |
| 98  | Charge Density Dependent Two-Channel Conduction in Organic Electric Double Layer Transistors (EDLTs). <i>Advanced Materials</i> , 2014, 26, 2527-2532.   | 11.1 | 21        |
| 99  | Transistors: Aerosol Jet Printed, Sub-2 V Complementary Circuits Constructed from P- and N-Type Electrolyte Gated Transistors ( <i>Adv. Mater.</i> 41/2014). <i>Advanced Materials</i> , 2014, 26, 7131-7131.  | 11.1 | 2         |
| 100 | Intramolecular Exciton Diffusion in Poly(3-hexylthiophene). <i>Journal of Physical Chemistry Letters</i> , 2013, 4, 3445-3449.   | 2.1  | 18        |
| 101 | Aerosol-Jet-Printed, 1 Volt H-Bridge Drive Circuit on Plastic with Integrated Electrochromic Pixel. <i>ACS Applied Materials &amp; Interfaces</i> , 2013, 5, 13198-13206.  | 4.0  | 40        |
| 102 | High-Mobility Transistors Based on Single Crystals of Isotopically Substituted Rubrene. <i>Journal of Physical Chemistry C</i> , 2013, 117, 11522-11529.   | 1.5  | 71        |
| 103 | Coupling of channel conductance and gate-to-channel capacitance in electric double layer transistors. <i>Applied Physics Letters</i> , 2013, 103, 193304.  | 1.5  | 9         |
| 104 | Transfer Printing of Thermoreversible Ion Gels for Flexible Electronics. <i>ACS Applied Materials &amp; Interfaces</i> , 2013, 5, 9522-9527.   | 4.0  | 56        |
| 105 | A Pedagogical Perspective on Ambipolar FETs. <i>ChemPhysChem</i> , 2013, 14, 1547-1552.  | 1.0  | 59        |
| 106 | Aerosol Jet Printed, Low Voltage, Electrolyte Gated Carbon Nanotube Ring Oscillators with Sub-5 ns Stage Delays. <i>Nano Letters</i> , 2013, 13, 954-960.  | 4.5  | 207       |
| 107 | Electrolyte-Gated Transistors for Organic and Printed Electronics. <i>Advanced Materials</i> , 2013, 25, 1822-1846.  | 11.1 | 797       |
| 108 | Optimization of Aerosol Jet Printing for High-Resolution, High-Aspect Ratio Silver Lines. <i>ACS Applied Materials &amp; Interfaces</i> , 2013, 5, 4856-4864.  | 4.0  | 296       |

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|-----|---|------|-----------|
| 109 | High Toughness, High Conductivity Ion Gels by Sequential Triblock Copolymer Self-Assembly and Chemical Cross-Linking. <i>Journal of the American Chemical Society</i> , 2013, 135, 9652-9655.   | 6.6  | 177       |
| 110 | Effects of Olefin Content and Alkyl Chain Placement on Optoelectronic and Morphological Properties in Poly(thienylene vinylenes). <i>Macromolecules</i> , 2013, 46, 5184-5194.  | 2.2  | 50        |
| 111 | Rubrene-Based Single-Crystal Organic Semiconductors: Synthesis, Electronic Structure, and Charge-Transport Properties. <i>Chemistry of Materials</i> , 2013, 25, 2254-2263.   | 3.2  | 141       |
| 112 | Utilizing Carbon Nanotube Electrodes to Improve Charge Injection and Transport in Bis(trifluoromethyl)-dimethyl-rubrene Ambipolar Single Crystal Transistors. <i>ACS Nano</i> , 2013, 7, 10245-10256.   | 7.3  | 56        |
| 113 | Performance and Stability of Aerosol-Jet-Printed Electrolyte-Gated Transistors Based on Poly(3-hexylthiophene). <i>ACS Applied Materials &amp; Interfaces</i> , 2013, 5, 6580-6585.   | 4.0  | 116       |
| 114 | Electrolyte gated single-crystal organic transistors to examine transport in the high carrier density regime. <i>MRS Bulletin</i> , 2013, 38, 43-50.  | 1.7  | 33        |
| 115 | Printed, sub-2V ZnO Electrolyte Gated Transistors and Inverters on Plastic. <i>Advanced Materials</i> , 2013, 25, 3413-3418.  | 11.1 | 140       |
| 116 | Temperature-Independent Transport in High-Mobility Dinaphtho-thieno-thiophene (DNNT) Single Crystal Transistors. <i>Advanced Materials</i> , 2013, 25, 3478-3484.   | 11.1 | 133       |
| 117 | Influence of Silver Doping on Electron Transport in Thin Films of PbSe Nanocrystals. <i>Advanced Materials</i> , 2013, 25, 725-731.   | 11.1 | 51        |
| 118 | An ADMET Route to Low-Band-Gap Poly(3-hexadecylthienylene vinylene): A Systematic Study of Molecular Weight on Photovoltaic Performance. <i>Macromolecules</i> , 2012, 45, 2190-2199.   | 2.2  | 41        |
| 119 | Band Gap and HOMO Level Control in Poly(thienylene vinylene)s Prepared by ADMET Polymerization. <i>ACS Macro Letters</i> , 2012, 1, 986-990.  | 2.3  | 40        |
| 120 | Hopping transport and the Hall effect near the insulator-metal transition in electrochemically gated poly(3-hexylthiophene) transistors. <i>Nature Communications</i> , 2012, 3, 1210.  | 5.8  | 153       |
| 121 | Electronic Impurity Doping in CdSe Nanocrystals. <i>Nano Letters</i> , 2012, 12, 2587-2594.   | 4.5  | 335       |
| 122 | Dependence of Conductivity on Charge Density and Electrochemical Potential in Polymer Semiconductors Gated with Ionic Liquids. <i>Journal of Physical Chemistry C</i> , 2012, 116, 3132-3141.   | 1.5  | 94        |
| 123 | High-Transconductance Organic Thin-Film Electrochemical Transistors for Driving Low-Voltage Red-Green-Blue Active Matrix Organic Light-Emitting Devices. <i>Advanced Functional Materials</i> , 2012, 22, 1623-1631.  | 7.8  | 54        |
| 124 | œCut and Stick•Rubbery Ion Gels as High Capacitance Gate Dielectrics. <i>Advanced Materials</i> , 2012, 24, 4457-4462.  | 11.1 | 383       |
| 125 | Length and Temperature Dependent Conduction of Ruthenium-Containing Redox-Active Molecular Wires. <i>Journal of Physical Chemistry C</i> , 2011, 115, 19955-19961.  | 1.5  | 104       |
| 126 | Relationship between Diode Saturation Current and Open Circuit Voltage in Poly(3-alkylthiophene) Solar Cells as a Function of Device Architecture, Processing Conditions, and Alkyl Side Chain Length. <i>Journal of Physical Chemistry C</i> , 2011, 115, 20806-20816. | 1.5  | 51        |



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