

C Daniel Frisbie

List of Publications by Year in descending order

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240
papers

28,747
citations

4370

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docs citations

245
times ranked

22308
citing authors

#	ARTICLE	IF	CITATIONS
1	Introduction to Organic Thin Film Transistors and Design of n-Channel Organic Semiconductors. <i>Chemistry of Materials</i> , 2004, 16, 4436-4451.	3.2	1,256
2	Printable ion-gel gate dielectrics for low-voltage polymer thin-film transistors on plastic. <i>Nature Materials</i> , 2008, 7, 900-906.	13.3	1,077
3	Functional Group Imaging by Chemical Force Microscopy. <i>Science</i> , 1994, 265, 2071-2074.	6.0	988
4	Electrolyte-Gated Transistors for Organic and Printed Electronics. <i>Advanced Materials</i> , 2013, 25, 1822-1846.	11.1	797
5	Electrical Resistance of Long Conjugated Molecular Wires. <i>Science</i> , 2008, 320, 1482-1486.	6.0	663
6	Critical assessment of charge mobility extraction in FETs. <i>Nature Materials</i> , 2018, 17, 2-7.	13.3	571
7	Fabrication and Characterization of Metal-Molecule-Metal Junctions by Conducting Probe Atomic Force Microscopy. <i>Journal of the American Chemical Society</i> , 2001, 123, 5549-5556.	6.6	539
8	Transition from Direct Tunneling to Field Emission in Metal-Molecule-Metal Junctions. <i>Physical Review Letters</i> , 2006, 97, 026801.	2.9	526
9	Chemical Force Microscopy: Exploiting Chemically-Modified Tips To Quantify Adhesion, Friction, and Functional Group Distributions in Molecular Assemblies. <i>Journal of the American Chemical Society</i> , 1995, 117, 7943-7951.	6.6	523
10	Length-Dependent Transport in Molecular Junctions Based on SAMs of Alkanethiols and Alkanedithiols: Effect of Metal Work Function and Applied Bias on Tunneling Efficiency and Contact Resistance. <i>Journal of the American Chemical Society</i> , 2004, 126, 14287-14296.	6.6	493
11	Electrostatic modification of novel materials. <i>Reviews of Modern Physics</i> , 2006, 78, 1185-1212.	16.4	465
12	Distance Dependence of Electron Tunneling through Self-Assembled Monolayers Measured by Conducting Probe Atomic Force Microscopy: Unsaturated versus Saturated Molecular Junctions. <i>Journal of Physical Chemistry B</i> , 2002, 106, 2813-2816.	1.2	461
13	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
14	Ion Gel Gated Polymer Thin-Film Transistors. <i>Journal of the American Chemical Society</i> , 2007, 129, 4532-4533.	6.6	422
15	Structural Characterization of a Pentacene Monolayer on an Amorphous SiO ₂ Substrate with Grazing Incidence X-ray Diffraction. <i>Journal of the American Chemical Society</i> , 2004, 126, 4084-4085.	6.6	412
16	Organic Thin Film Transistors Based on N-Alkyl Perylene Diimides: Charge Transport Kinetics as a Function of Gate Voltage and Temperature. <i>Journal of Physical Chemistry B</i> , 2004, 108, 19281-19292.	1.2	406
17	Cast and Stick Rubbery Ion Gels as High Capacitance Gate Dielectrics. <i>Advanced Materials</i> , 2012, 24, 4457-4462.	11.1	383
18	Contact Resistance in Metal-Molecule-Metal Junctions Based on Aliphatic SAMs: Effects of Surface Linker and Metal Work Function. <i>Journal of the American Chemical Society</i> , 2002, 124, 11268-11269.	6.6	372

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19	Printed, Sub-3V Digital Circuits on Plastic from Aqueous Carbon Nanotube Inks. <i>ACS Nano</i> , 2010, 4, 4388-4395.	7.3	362
20	Electronic Impurity Doping in CdSe Nanocrystals. <i>Nano Letters</i> , 2012, 12, 2587-2594.	4.5	335
21	Ion Gel-Gated Polymer Thin-Film Transistors: Operating Mechanism and Characterization of Gate Dielectric Capacitance, Switching Speed, and Stability. <i>Journal of Physical Chemistry C</i> , 2009, 113, 8972-8981.	1.5	325
22	Effect of Dielectric Roughness on Performance of Pentacene TFTs and Restoration of Performance with a Polymeric Smoothing Layer. <i>Journal of Physical Chemistry B</i> , 2005, 109, 10574-10577.	1.2	305
23	Gravure Printing of Graphene for Large-Area Flexible Electronics. <i>Advanced Materials</i> , 2014, 26, 4533-4538.	11.1	298
24	Formation of Metal-Molecule-Metal Tunnel Junctions: From Microcontacts to Alkanethiol Monolayers with a Conducting AFM Tip. <i>Journal of the American Chemical Society</i> , 2000, 122, 2970-2971.	6.6	296
25	Optimization of Aerosol Jet Printing for High-Resolution, High-Aspect Ratio Silver Lines. <i>ACS Applied Materials & Interfaces</i> , 2013, 5, 4856-4864.	4.0	296
26	Gated four-probe measurements on pentacene thin-film transistors: Contact resistance as a function of gate voltage and temperature. <i>Journal of Applied Physics</i> , 2004, 96, 7312-7324.	1.1	288
27	Correlation between HOMO Alignment and Contact Resistance in Molecular Junctions: Aromatic Thiols versus Aromatic Isocyanides. <i>Journal of the American Chemical Society</i> , 2006, 128, 4970-4971.	6.6	282
28	Surface potential profiling and contact resistance measurements on operating pentacene thin-film transistors by Kelvin probe force microscopy. <i>Applied Physics Letters</i> , 2003, 83, 5539-5541.	1.5	277
29	A π -Stacking Terthiophene-Based Quinodimethane Is an n-Channel Conductor in a Thin Film Transistor. <i>Journal of the American Chemical Society</i> , 2002, 124, 4184-4185.	6.6	275
30	Measuring Relative Barrier Heights in Molecular Electronic Junctions with Transition Voltage Spectroscopy. <i>ACS Nano</i> , 2008, 2, 827-832.	7.3	254
31	Polymer Electrolyte-Gated Organic Field-Effect Transistors: Low-Voltage, High-Current Switches for Organic Electronics and Testbeds for Probing Electrical Transport at High Charge Carrier Density. <i>Journal of the American Chemical Society</i> , 2007, 129, 6599-6607.	6.6	251
32	Molecular Tunnel Junctions Based on π -Conjugated Oligoacene Thiols and Dithiols between Ag, Au, and Pt Contacts: Effect of Surface Linking Group and Metal Work Function. <i>Journal of the American Chemical Society</i> , 2011, 133, 19864-19877.	6.6	247
33	Molecular Rectification in a Metal-Insulator-Metal Junction Based on Self-Assembled Monolayers. <i>Journal of the American Chemical Society</i> , 2002, 124, 11730-11736.	6.6	232
34	Field Effect Transport and Trapping in Regioregular Polythiophene Nanofibers. <i>Journal of Physical Chemistry B</i> , 2004, 108, 19169-19179.	1.2	232
35	Systems for orthogonal self-assembly of electroactive monolayers on Au and ITO: an approach to molecular electronics. <i>Journal of the American Chemical Society</i> , 1995, 117, 6927-6933.	6.6	231
36	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

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37	Transition from Tunneling to Hopping Transport in Long, Conjugated Oligo-imine Wires Connected to Metals. <i>Journal of the American Chemical Society</i> , 2010, 132, 4358-4368.	6.6	217
38	Low-voltage operation of a pentacene field-effect transistor with a polymer electrolyte gate dielectric. <i>Applied Physics Letters</i> , 2005, 86, 103503.	1.5	215
39	Imaging of features on surfaces by condensation figures. <i>Science</i> , 1993, 260, 647-649.	6.0	212
40	Aerosol Jet Printed, Low Voltage, Electrolyte Gated Carbon Nanotube Ring Oscillators with Sub-5 μ s Stage Delays. <i>Nano Letters</i> , 2013, 13, 954-960.	4.5	207
41	Conducting Probe Atomic Force Microscopy: A Characterization Tool for Molecular Electronics. <i>Advanced Materials</i> , 1999, 11, 261-264.	11.1	204
42	p-Channel Organic Semiconductors Based on Hybrid Acene π -Thiophene Molecules for Thin-Film Transistor Applications. <i>Journal of the American Chemical Society</i> , 2005, 127, 3997-4009.	6.6	204
43	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
44	Multicolored, Low-Power, Flexible Electrochromic Devices Based on Ion Gels. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 6252-6260.	4.0	202
45	Variable temperature film and contact resistance measurements on operating n-channel organic thin film transistors. <i>Journal of Applied Physics</i> , 2004, 95, 6396-6405.	1.1	190
46	Ionic Conductivity, Capacitance, and Viscoelastic Properties of Block Copolymer-Based Ion Gels. <i>Macromolecules</i> , 2011, 44, 940-949.	2.2	183
47	Nanoporous Poly(3-alkylthiophene) Thin Films Generated from Block Copolymer Templates. <i>Macromolecules</i> , 2008, 41, 67-75.	2.2	182
48	Printed Sub-2 V Gel-Electrolyte-Gated Polymer Transistors and Circuits. <i>Advanced Functional Materials</i> , 2010, 20, 587-594.	7.8	180
49	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
50	Polymer Electrolyte Gate Dielectric Reveals Finite Windows of High Conductivity in Organic Thin Film Transistors at High Charge Carrier Densities. <i>Journal of the American Chemical Society</i> , 2005, 127, 6960-6961.	6.6	175
51	Electrolyte-gated transistors for enhanced performance bioelectronics. <i>Nature Reviews Methods Primers</i> , 2021, 1, .	11.8	172
52	Exploiting Ionic Coupling in Electronic Devices: Electrolyte-Gated Organic Field-Effect Transistors. <i>Advanced Materials</i> , 2008, 20, 3177-3180.	11.1	170
53	Scalable, Self-Aligned Printing of Flexible Graphene Micro-Supercapacitors. <i>Advanced Energy Materials</i> , 2017, 7, 1700285.	10.2	167
54	Electrical Impedance of Spin-Coatable Ion Gel Films. <i>Journal of Physical Chemistry B</i> , 2011, 115, 3315-3321.	1.2	166

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55	Probing Hopping Conduction in Conjugated Molecular Wires Connected to Metal Electrodes. <i>Chemistry of Materials</i> , 2011, 23, 631-645.	3.2	163
56	Temperature and Length Dependence of Charge Transport in Redox-Active Molecular Wires Incorporating Ruthenium(II) Bis(<i>l</i> -arylacetylde) Complexes. <i>Journal of Physical Chemistry C</i> , 2007, 111, 7521-7526.	1.5	161
57	Correlation of Phase Behavior and Charge Transport in Conjugated Polymer/Fullerene Blends. <i>Journal of Physical Chemistry C</i> , 2008, 112, 17726-17736.	1.5	156
58	Direct Force Measurements at Polymer Brush Surfaces by Atomic Force Microscopy. <i>Macromolecules</i> , 1998, 31, 4297-4300.	2.2	155
59	Photosensitive Self-Assembled Monolayers on Gold: Photochemistry of Surface-Confined Aryl Azide and Cyclopentadienylmanganese Tricarbonyl. <i>Journal of the American Chemical Society</i> , 1994, 116, 4395-4404.	6.6	153
60	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
61	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
62	Gate Voltage Dependent Resistance of a Single Organic Semiconductor Grain Boundary. <i>Journal of Physical Chemistry B</i> , 2001, 105, 4538-4540.	1.2	143
63	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
64	Comparison of the Mobility-Carrier Density Relation in Polymer and Single-Crystal Organic Transistors Employing Vacuum and Liquid Gate Dielectrics. <i>Advanced Materials</i> , 2009, 21, 2174-2179.	11.1	140
65	Printed, sub- μ V ZnO Electrolyte Gated Transistors and Inverters on Plastic. <i>Advanced Materials</i> , 2013, 25, 3413-3418.	11.1	140
66	Electrolyte Gate-Controlled Kondo Effect in SrTiO_3 . <i>Physical Review Letters</i> , 2011, 107, 256601.	2.9	139
67	Field effect conductance of conducting polymer nanofibers. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2003, 41, 2674-2680.	2.4	136
68	Temperature and gate voltage dependent transport across a single organic semiconductor grain boundary. <i>Journal of Applied Physics</i> , 2001, 90, 1342-1349.	1.1	135
69	Size-Dependent Electrical Transport in CdSe Nanocrystal Thin Films. <i>Nano Letters</i> , 2010, 10, 3727-3732.	4.5	134
70	Temperature-Independent Transport in High-Mobility Dinaphtho-thieno-thiophene (DNNT) Single Crystal Transistors. <i>Advanced Materials</i> , 2013, 25, 3478-3484.	11.1	133
71	All-Printed, Foldable Organic Thin-Film Transistors on Glassine Paper. <i>Advanced Materials</i> , 2015, 27, 7058-7064.	11.1	133
72	Potentiometry of an operating organic semiconductor field-effect transistor. <i>Applied Physics Letters</i> , 2001, 78, 993-995.	1.5	119

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73	Performance and Stability of Aerosol-Jet-Printed Electrolyte-Gated Transistors Based on Poly(3-hexylthiophene). <i>ACS Applied Materials & Interfaces</i> , 2013, 5, 6580-6585.	4.0	116
74	High-Resolution Transfer Printing of Graphene Lines for Fully Printed, Flexible Electronics. <i>ACS Nano</i> , 2017, 11, 7431-7439.	7.3	116
75	Size- and Temperature-Dependent Charge Transport in PbSe Nanocrystal Thin Films. <i>Nano Letters</i> , 2011, 11, 3887-3892.	4.5	114
76	Screen Printing of Highly Loaded Silver Inks on Plastic Substrates Using Silicon Stencils. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 12619-12624.	4.0	114
77	High Carrier Densities Achieved at Low Voltages in Ambipolar PbSe Nanocrystal Thin-Film Transistors. <i>Nano Letters</i> , 2009, 9, 3848-3852.	4.5	111
78	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
79	Vibrational Spectroscopy Reveals Electrostatic and Electrochemical Doping in Organic Thin Film Transistors Gated with a Polymer Electrolyte Dielectric. <i>Journal of the American Chemical Society</i> , 2007, 129, 7824-7830.	6.6	100
80	Viscoelastic Properties, Ionic Conductivity, and Materials Design Considerations for Poly(styrene- <i>b</i> -ethylene oxide- <i>b</i> -styrene)-Based Ion Gel Electrolytes. <i>Macromolecules</i> , 2011, 44, 8981-8989.	2.2	97
81	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
82	Single Ion Conducting, Polymerized Ionic Liquid Triblock Copolymer Films: High Capacitance Electrolyte Gates for n-type Transistors. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 7294-7302.	4.0	93
83	Analysis of the Causes of Variance in Resistance Measurements on Metal-Molecule-Metal Junctions Formed by Conducting-Probe Atomic Force Microscopy. <i>Journal of Physical Chemistry B</i> , 2005, 109, 16801-16810.	1.2	92
84	High charge carrier densities and conductance maxima in single-crystal organic field-effect transistors with a polymer electrolyte gate dielectric. <i>Applied Physics Letters</i> , 2006, 88, 203504.	1.5	91
85	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
86	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
87	Synergistic Increase in Ionic Conductivity and Modulus of Triblock Copolymer Ion Gels. <i>Macromolecules</i> , 2015, 48, 4942-4950.	2.2	89
88	Tetracene air-gap single-crystal field-effect transistors. <i>Applied Physics Letters</i> , 2007, 90, 162106.	1.5	85
89	Ultralow contact resistance in electrolyte-gated organic thin film transistors. <i>Applied Physics Letters</i> , 2010, 97, .	1.5	85
90	Field Effect Conductance Measurements on Thin Crystals of Sexithiophene. <i>Journal of Physical Chemistry B</i> , 1999, 103, 8842-8849.	1.2	83

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91	Enhanced Hopping Conductivity in Low Band Gap Donor- π -Acceptor Molecular Wires Up to 20 nm in Length. <i>Journal of the American Chemical Society</i> , 2010, 132, 16191-16201.	6.6	82
92	Length-Dependent Conductance of Conjugated Molecular Wires Synthesized by Stepwise "Click" Chemistry. <i>Journal of the American Chemical Society</i> , 2010, 132, 8854-8855.	6.6	81
93	Organic Electrical Double Layer Transistors Based on Rubrene Single Crystals: Examining Transport at High Surface Charge Densities above 10^{13} cm $^{-2}$. <i>Journal of Physical Chemistry C</i> , 2011, 115, 14360-14368.	1.5	81
94	Electrostatic <i>versus</i> Electrochemical Doping and Control of Ferromagnetism in Ion-Gel-Gated Ultrathin La $_{0.5}$ Sr $_{0.5}$ CoO $_3$. <i>ACS Nano</i> , 2016, 10, 7799-7810.	7.3	81
95	Field Effect Transport Measurements on Single Grains of Sexithiophene: A Role of the Contacts. <i>Journal of Physical Chemistry B</i> , 2000, 104, 12202-12209.	1.2	80
96	Grain Orientation Mapping of Polycrystalline Organic Semiconductor Films by Transverse Shear Microscopy. <i>Advanced Materials</i> , 2008, 20, 4033-4039.	11.1	80
97	Surface Potential Mapping of SAM-Functionalized Organic Semiconductors by Kelvin Probe Force Microscopy. <i>Advanced Materials</i> , 2011, 23, 502-507.	11.1	78
98	Length-Dependent Nanotransport and Charge Hopping Bottlenecks in Long Thiophene-Containing π -Conjugated Molecular Wires. <i>Journal of the American Chemical Society</i> , 2015, 137, 15732-15741.	6.6	76
99	Investigation of Charge Transport in Thin, Doped Sexithiophene Crystals by Conducting Probe Atomic Force Microscopy. <i>Journal of Physical Chemistry B</i> , 1998, 102, 1679-1688.	1.2	75
100	Strain effects on the work function of an organic semiconductor. <i>Nature Communications</i> , 2016, 7, 10270.	5.8	74
101	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 & Interfaces</i> , 2014, 6, 18704-18711.	4.0	73
102	Carrier Localization on Surfaces of Organic Semiconductors Gated with Electrolytes. <i>Physical Review Letters</i> , 2010, 105, 036802.	2.9	71
103	High-Mobility Transistors Based on Single Crystals of Isotopically Substituted Rubrene- d_{28} . <i>Journal of Physical Chemistry C</i> , 2013, 117, 11522-11529.	1.5	71
104	Transport properties of single-crystal tetracene field-effect transistors with silicon dioxide gate dielectric. <i>Applied Physics Letters</i> , 2004, 85, 422-424.	1.5	69
105	Scanning electron microscopy for imaging photopatterned self-assembled monolayers on gold. <i>Langmuir</i> , 1993, 9, 1517-1520.	1.6	68
106	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
107	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
108	N- and P-Channel Transport Behavior in Thin Film Transistors Based on Tricyanovinyl-Capped Oligothiophenes. <i>Journal of Physical Chemistry B</i> , 2006, 110, 14590-14597.	1.2	63

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109	Enhancement of the Morphology and Open Circuit Voltage in Bilayer Polymer/Fullerene Solar Cells. <i>Journal of Physical Chemistry C</i> , 2009, 113, 11408-11415.	1.5	63
110	Label-Free DNA Sensing Platform with Low-Voltage Electrolyte-Gated Transistors. <i>Analytical Chemistry</i> , 2015, 87, 1861-1866.	3.2	63
111	Correlation of on-state conductance with referenced electrochemical potential in ion gel gated polymer transistors. <i>Applied Physics Letters</i> , 2009, 94, 013304.	1.5	60
112	Uncovering a law of corresponding states for electron tunneling in molecular junctions. <i>Nanoscale</i> , 2015, 7, 10465-10471.	2.8	60
113	A Pedagogical Perspective on Ambipolar FETs. <i>ChemPhysChem</i> , 2013, 14, 1547-1552.	1.0	59
114	Transfer Printing of Thermoreversible Ion Gels for Flexible Electronics. <i>ACS Applied Materials & Interfaces</i> , 2013, 5, 9522-9527.	4.0	56
115	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
116	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
117	Crystal step edges can trap electrons on the surfaces of n-type organic semiconductors. <i>Nature Communications</i> , 2018, 9, 2141.	5.8	55
118	Hydrostatic-pressure dependence of the photoconductivity of single-crystal pentacene and tetracene. <i>Applied Physics Letters</i> , 2001, 79, 2731-2733.	1.5	54
119	Synthesis, Optical Properties, and Microstructure of a Fullerene-Terminated Poly(3-hexylthiophene). <i>Macromolecules</i> , 2009, 42, 4118-4126.	2.2	54
120	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
121	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
122	The Catalytic Mechanics of Dynamic Surfaces: Stimulating Methods for Promoting Catalytic Resonance. <i>ACS Catalysis</i> , 2020, 10, 12666-12695.	5.5	54
123	Direct Detection by Atomic Force Microscopy of Single Bond Forces Associated with the Rupture of Discrete Charge-Transfer Complexes. <i>Journal of the American Chemical Society</i> , 2002, 124, 15125-15133.	6.6	53
124	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
125	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
126	Influence of Silver Doping on Electron Transport in Thin Films of PbSe Nanocrystals. <i>Advanced Materials</i> , 2013, 25, 725-731.	11.1	51

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127	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
128	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
129	Hydrostatic pressure dependence of charge carrier transport in single-crystal rubrene devices. <i>Applied Physics Letters</i> , 2005, 86, 123501.	1.5	49
130	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
131	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
132	Sub- ϵ_3 V ZnO Electrolyte-Gated Transistors and Circuits with Screen-Printed and Photo-Crosslinked Ion Gel Gate Dielectrics: New Routes to Improved Performance. <i>Advanced Functional Materials</i> , 2020, 30, 1902028.	7.8	49
133	Diastereoselectivity of Enolate Anion Protonation. H/D Exchange of \hat{I}^2 -Substituted Ethyl Butanoates in Ethanol-d. <i>Journal of the American Chemical Society</i> , 1997, 119, 479-486.	6.6	48
134	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
135	Gate-Tuned Insulator-Metal Transition in Electrolyte-Gated Transistors Based on Tellurene. <i>Nano Letters</i> , 2019, 19, 4738-4744.	4.5	48
136	Detection of Discrete Interactions upon Rupture of Au Microcontacts to Self-Assembled Monolayers Terminated with \hat{a}^{\prime} S(CO)CH ₃ or \hat{a}^{\prime} SH. <i>Journal of the American Chemical Society</i> , 2000, 122, 9750-9760.	6.6	47
137	Rupture of Hydrophobic Microcontacts in Water: Correlation of Pull-Off Force with AFM Tip Radius. <i>Langmuir</i> , 2000, 16, 6294-6297.	1.6	47
138	Low Band Gap Poly(thienylene vinylene)/Fullerene Bulk Heterojunction Photovoltaic Cells. <i>Journal of Physical Chemistry C</i> , 2009, 113, 10790-10797.	1.5	47
139	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
140	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
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