

Simone Fabiano

List of Publications by Year in descending order

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108
papers

6,519
citations

53794

45
h-index

69250

77
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115
all docs

115
docs citations

115
times ranked

5853
citing authors

#	ARTICLE	IF	CITATIONS
1	Thermoelectric Properties of Solution-Processed n-Doped Ladder-Type Conducting Polymers. <i>Advanced Materials</i> , 2016, 28, 10764-10771.	21.0	245
2	Interfaces in organic electronics. <i>Nature Reviews Materials</i> , 2019, 4, 627-650.	48.7	237
3	Double doping of conjugated polymers with monomer molecular dopants. <i>Nature Materials</i> , 2019, 18, 149-155.	27.5	225
4	Wearable Thermoelectric Materials and Devices for Self-Powered Electronic Systems. <i>Advanced Materials</i> , 2021, 33, e2102990.	21.0	221
5	Enhanced n-Doping Efficiency of a Naphthalenediimide-Based Copolymer through Polar Side Chains for Organic Thermoelectrics. <i>ACS Energy Letters</i> , 2018, 3, 278-285.	17.4	220
6	Complementary Logic Circuits Based on High-Performance n-Type Organic Electrochemical Transistors. <i>Advanced Materials</i> , 2018, 30, 1704916.	21.0	206
7	Effect of (3-glycidyloxypropyl)trimethoxysilane (GOPS) on the electrical properties of PEDOT:PSS films. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2017, 55, 814-820.	2.1	190
8	Unconventional Thermoelectric Materials for Energy Harvesting and Sensing Applications. <i>Chemical Reviews</i> , 2021, 121, 12465-12547.	47.7	186
9	Experimental evidence that short-range intermolecular aggregation is sufficient for efficient charge transport in conjugated polymers. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 10599-10604.	7.1	175
10	Polymer gels with tunable ionic Seebeck coefficient for ultra-sensitive printed thermopiles. <i>Nature Communications</i> , 2019, 10, 1093.	12.8	174
11	A Chemically Doped Naphthalenediimide-Bithiazole Polymer for n-Type Organic Thermoelectrics. <i>Advanced Materials</i> , 2018, 30, e1801898.	21.0	165
12	All-printed large-scale integrated circuits based on organic electrochemical transistors. <i>Nature Communications</i> , 2019, 10, 5053.	12.8	156
13	Transition metal-catalysed molecular n-doping of organic semiconductors. <i>Nature</i> , 2021, 599, 67-73.	27.8	152
14	Role of photoactive layer morphology in high fill factor all-polymer bulk heterojunction solar cells. <i>Journal of Materials Chemistry</i> , 2011, 21, 5891.	6.7	146
15	An Evolvable Organic Electrochemical Transistor for Neuromorphic Applications. <i>Advanced Science</i> , 2019, 6, 1801339.	11.2	138
16	Thermoelectric Polymer Aerogels for Pressure-Temperature Sensing Applications. <i>Advanced Functional Materials</i> , 2017, 27, 1703549.	14.9	133
17	n-Type organic electrochemical transistors: materials and challenges. <i>Journal of Materials Chemistry C</i> , 2018, 6, 11778-11784.	5.5	122
18	A high-conductivity n-type polymeric ink for printed electronics. <i>Nature Communications</i> , 2021, 12, 2354.	12.8	120

#	ARTICLE	IF	CITATIONS
19	Ion Electronâ€“Coupled Functionality in Materials and Devices Based on Conjugated Polymers. <i>Advanced Materials</i> , 2019, 31, e1805813.	21.0	118
20	A Multiparameter Pressureâ€“Temperatureâ€“Humidity Sensor Based on Mixed Ionicâ€“Electronic Cellulose Aerogels. <i>Advanced Science</i> , 2019, 6, 1802128.	11.2	114
21	Ground-state electron transfer in all-polymer donorâ€“acceptor heterojunctions. <i>Nature Materials</i> , 2020, 19, 738-744.	27.5	111
22	Aggregation control in natural brush-printed conjugated polymer films and implications for enhancing charge transport. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, E10066-E10073.	7.1	110
23	Organic electrochemical neurons and synapses with ion mediated spiking. <i>Nature Communications</i> , 2022, 13, 901.	12.8	110
24	From Monolayer to Multilayer Nâ€“Channel Polymeric Fieldâ€“Effect Transistors with Precise Conformational Order. <i>Advanced Materials</i> , 2012, 24, 951-956.	21.0	109
25	Poly(ethylene imine) Impurities Induce nâ€“doping Reaction in Organic (Semi)Conductors. <i>Advanced Materials</i> , 2014, 26, 6000-6006.	21.0	101
26	Ionic thermoelectric gating organic transistors. <i>Nature Communications</i> , 2017, 8, 14214.	12.8	99
27	Amphipathic Side Chain of a Conjugated Polymer Optimizes Dopant Location toward Efficient Nâ€“Type Organic Thermoelectrics. <i>Advanced Materials</i> , 2021, 33, e2006694.	21.0	91
28	Single Crystalâ€“Like Performance in Solutionâ€“Coated Thinâ€“Film Organic Fieldâ€“Effect Transistors. <i>Advanced Functional Materials</i> , 2016, 26, 2379-2386.	14.9	87
29	Influence of Molecular Weight on the Organic Electrochemical Transistor Performance of Ladderâ€“Type Conjugated Polymers. <i>Advanced Materials</i> , 2022, 34, e2106235.	21.0	86
30	Orientation-Dependent Electronic Structures and Charge Transport Mechanisms in Ultrathin Polymeric n-Channel Field-Effect Transistors. <i>ACS Applied Materials & Interfaces</i> , 2013, 5, 4417-4422.	8.0	74
31	Celluloseâ€“Conducting Polymer Aerogels for Efficient Solar Steam Generation. <i>Advanced Sustainable Systems</i> , 2020, 4, 2000004.	5.3	74
32	A Freeâ€“Standing Highâ€“Output Power Density Thermoelectric Device Based on Structureâ€“Ordered PEDOT:PSS. <i>Advanced Electronic Materials</i> , 2018, 4, 1700496.	5.1	73
33	Conductive polymer nanoantennas for dynamic organic plasmonics. <i>Nature Nanotechnology</i> , 2020, 15, 35-40.	31.5	70
34	Acene Ring Size Optimization in Fused Lactam Polymers Enabling High n-Type Organic Thermoelectric Performance. <i>Journal of the American Chemical Society</i> , 2021, 143, 260-268.	13.7	68
35	Charge Transport Orthogonality in Allâ€“Polymer Blend Transistors, Diodes, and Solar Cells. <i>Advanced Energy Materials</i> , 2014, 4, 1301409.	19.5	64
36	Asymmetric electron and hole transport in a high-mobility n -type conjugated polymer. <i>Physical Review B</i> , 2012, 86,	3.2	63

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37	Naphthalenediimide Polymers with Finely Tuned In-Chain π -Conjugation: Electronic Structure, Film Microstructure, and Charge Transport Properties. <i>Advanced Materials</i> , 2016, 28, 9169-9174.	21.0	63
38	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
39	Fused Bithiophene Imide Dimer-Based n-Type Polymers for High-Performance Organic Electrochemical Transistors. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 24198-24205.	13.8	60
40	Organoboron Polymers for Photovoltaic Bulk Heterojunctions. <i>Macromolecular Rapid Communications</i> , 2010, 31, 1281-1286.	3.9	58
41	High Thermoelectric Performance in n-Type Perylene Bisimide Induced by the Soret Effect. <i>Advanced Materials</i> , 2020, 32, e2002752.	21.0	53
42	Ferroelectric Polarization Induces Electric Double Layer Bistability in Electrolyte-Gated Field-Effect Transistors. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 438-442.	8.0	52
43	High yield manufacturing of fully screen-printed organic electrochemical transistors. <i>Npj Flexible Electronics</i> , 2020, 4, .	10.7	52
44	Effect of Gate Electrode Work-Function on Source Charge Injection in Electrolyte-Gated Organic Field-Effect Transistors. <i>Advanced Functional Materials</i> , 2014, 24, 695-700.	14.9	50
45	Mixed Ionic-Electronic Transport in Polymers. <i>Annual Review of Materials Research</i> , 2021, 51, 73-99.	9.3	49
46	Naphthalene Bis(4,8-diamino-1,5-dicarboxyl)amide Building Block for Semiconducting Polymers. <i>Journal of the American Chemical Society</i> , 2017, 139, 14356-14359.	13.7	46
47	Ferroelectric polarization induces electronic nonlinearity in ion-doped conducting polymers. <i>Science Advances</i> , 2017, 3, e1700345.	10.3	46
48	Asymmetric Aqueous Supercapacitor Based on p- and n-Type Conducting Polymers. <i>ACS Applied Energy Materials</i> , 2019, 2, 5350-5355.	5.1	44
49	Effect of Backbone Regiochemistry on Conductivity, Charge Density, and Polaron Structure of n-Doped Donor-Acceptor Polymers. <i>Chemistry of Materials</i> , 2019, 31, 3395-3406.	6.7	44
50	Sequential Doping of Ladder-Type Conjugated Polymers for Thermally Stable n-Type Organic Conductors. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 53003-53011.	8.0	41
51	Mapping the energy level alignment at donor/acceptor interfaces in non-fullerene organic solar cells. <i>Nature Communications</i> , 2022, 13, 2046.	12.8	41
52	Low-Power/High-Gain Flexible Complementary Circuits Based on Printed Organic Electrochemical Transistors. <i>Advanced Electronic Materials</i> , 2022, 8, .	5.1	39
53	Supramolecular Order of Solution-Processed Perylenediimide Thin Films: High-Performance Small-Channel n-Type Organic Transistors. <i>Advanced Functional Materials</i> , 2011, 21, 4479-4486.	14.9	38
54	Energy Level Bending in Ultrathin Polymer Layers Obtained through Langmuir-Blodgett Deposition. <i>Advanced Functional Materials</i> , 2016, 26, 1077-1084.	14.9	38

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55	Selective Remanent Ambipolar Charge Transport in Polymeric Field-Effect Transistors For High-Performance Logic Circuits Fabricated in Ambient. <i>Advanced Materials</i> , 2014, 26, 7438-7443.	21.0	34
56	Photovoltaic Blend Microstructure for High Efficiency Post-Fullerene Solar Cells. To Tilt or Not To Tilt?. <i>Journal of the American Chemical Society</i> , 2019, 141, 13410-13420.	13.7	33
57	High-Performance Hole Transport and Quasi-Balanced Ambipolar OFETs Based on 2,2',6,6'-Tetrakis(phenylamino)-9,9'-spiro[9.9]19-benzo[9,9'-indigo Polymers. <i>Advanced Electronic Materials</i> , 2016, 2, 1500313.	5.1	32
58	Impact of Singly Occupied Molecular Orbital Energy on the n-Doping Efficiency of Benzimidazole Derivatives. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 37981-37990.	8.0	32
59	Modulating molecular aggregation by facile heteroatom substitution of diketopyrrolopyrrole based small molecules for efficient organic solar cells. <i>Journal of Materials Chemistry A</i> , 2015, 3, 24349-24357.	10.3	31
60	Mixed ion-electron transport in organic electrochemical transistors. <i>Applied Physics Letters</i> , 2020, 117, .	3.3	30
61	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
62	Negatively-Doped Conducting Polymers for Oxygen Reduction Reaction. <i>Advanced Energy Materials</i> , 2021, 11, 2002664.	19.5	28
63	Synthesis and Aggregation Behavior of a Glycolated Naphthalene Diimide Bithiophene Copolymer for Application in Low-Level n-Doped Organic Thermoelectrics. <i>Macromolecules</i> , 2020, 53, 5158-5168.	4.8	27
64	A Biomimetic Evolvable Organic Electrochemical Transistor. <i>Advanced Electronic Materials</i> , 2021, 7, 2001126.	5.1	26
65	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
66	One-Step Synthesis of Precursor Oligomers for Organic Photovoltaics: A Comparative Study between Polymers and Small Molecules. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 27106-27114.	8.0	25
67	Mo _{1.33} C MXene-Assisted PEDOT:PSS Hole Transport Layer for High-Performance Bulk-Heterojunction Polymer Solar Cells. <i>ACS Applied Electronic Materials</i> , 2020, 2, 163-169.	4.3	25
68	Bias stress effect in polyelectrolyte-gated organic field-effect transistors. <i>Applied Physics Letters</i> , 2013, 102, 113306.	3.3	24
69	Mixed-flow design for microfluidic printing of two-component polymer semiconductor systems. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 17551-17557.	7.1	24
70	Synthesis and Electronic Properties of Diketopyrrolopyrrole-Based Polymers with and without Ring-Fusion. <i>Macromolecules</i> , 2021, 54, 970-980.	4.8	23
71	Selecting speed-dependent pathways for a programmable nanoscale texture by wet interfaces. <i>Chemical Society Reviews</i> , 2012, 41, 6859.	38.1	22
72	Solution-processed bulk-heterojunction organic solar cells employing Ir complexes as electron donors. <i>Journal of Materials Chemistry A</i> , 2014, 2, 12390.	10.3	22

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73	Two-dimensional charge transport in molecularly ordered polymer field-effect transistors. <i>Journal of Materials Chemistry C</i> , 2016, 4, 11135-11142.	5.5	22
74	Monolithic integration of display driver circuits and displays manufactured by screen printing. <i>Flexible and Printed Electronics</i> , 2020, 5, 024001.	2.7	22
75	Polarons in π -conjugated ladder-type polymers: a broken symmetry density functional description. <i>Journal of Materials Chemistry C</i> , 2019, 7, 12876-12885.	5.5	21
76	Charge transport in doped conjugated polymers for organic thermoelectrics. <i>Chemical Physics Reviews</i> , 2022, 3, .	5.7	19
77	On the Origin of Seebeck Coefficient Inversion in Highly Doped Conducting Polymers. <i>Advanced Functional Materials</i> , 2022, 32, .	14.9	18
78	Conducting π -Polymer Bolometers for Low-Cost IR-Detection Systems. <i>Advanced Electronic Materials</i> , 2019, 5, 1800975.	5.1	16
79	Processable High Electron Mobility π -Copolymers via Mesoscale Backbone Conformational Ordering. <i>Advanced Functional Materials</i> , 2021, 31, 2009359.	14.9	16
80	Engineering 3D ordered molecular thin films by nanoscale control. <i>Physical Chemistry Chemical Physics</i> , 2010, 12, 14848.	2.8	15
81	Hybrid Plasmonic and Pyroelectric Harvesting of Light Fluctuations. <i>Advanced Optical Materials</i> , 2018, 6, 1701051.	7.3	15
82	Investigation of the dimensionality of charge transport in organic field effect transistors. <i>Physical Review B</i> , 2017, 95, .	3.2	14
83	Thermodiffusion-Assisted Pyroelectrics-Enabling Rapid and Stable Heat and Radiation Sensing. <i>Advanced Functional Materials</i> , 2019, 29, 1900572.	14.9	14
84	Fused Bithiophene Imide Dimer-Based n -Type Polymers for High-Performance Organic Electrochemical Transistors. <i>Angewandte Chemie</i> , 2021, 133, 24400-24407.	2.0	14
85	Synergistic Effect of Multi-Walled Carbon Nanotubes and Ladder-Type Conjugated Polymers on the Performance of n -Type Organic Electrochemical Transistors. <i>Advanced Functional Materials</i> , 2022, 32, 2106447.	14.9	14
86	Solution processed liquid metal-conducting polymer hybrid thin films as electrochemical pH-threshold indicators. <i>Journal of Materials Chemistry C</i> , 2015, 3, 7604-7611.	5.5	13
87	Polarization of ferroelectric films through electrolyte. <i>Journal of Physics Condensed Matter</i> , 2016, 28, 105901.	1.8	8
88	Light-sensitive charge storage medium with spironaphthooxazine molecule-polymer blends for dual-functional organic phototransistor memory. <i>Organic Electronics</i> , 2020, 78, 105554.	2.6	8
89	Enhanced ionic transport in ferroelectric polymer fiber mats. <i>Journal of Materials Chemistry A</i> , 2021, 9, 22418-22427.	10.3	8
90	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

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91	Two-in-One Device with Versatile Compatible Electrical Switching or Data Storage Functions Controlled by the Ferroelectricity of P(VDF-TrFE) via Photocrosslinking. ACS Applied Materials & Interfaces, 2019, 11, 25358-25368.	8.0	7
92	Natural Product Betulin-Based Insulating Polymer Filler in Organic Solar Cells. Solar Rrl, 2022, 6, .	5.8	7
93	Stretchable helix-structured fibre electronics. Nature Electronics, 2021, 4, 864-865.	26.0	6
94	Rational Materials Design for In Operando Electropolymerization of Evolvable Organic Electrochemical Transistors. Advanced Functional Materials, 2022, 32, .	14.9	6
95	Ferroelectric surfaces for cell release. Synthetic Metals, 2017, 228, 99-104.	3.9	5
96	All-Solid-State Organic Schmitt Trigger Implemented by Twin Two-In-One Ferroelectric Memory Transistors. Advanced Electronic Materials, 2020, 6, 1901263.	5.1	5
97	A ferroelectric polymer introduces addressability in electrophoretic display cells. Flexible and Printed Electronics, 2019, 4, 035004.	2.7	4
98	Organic Electrochemical Devices: Ion Electron-Coupled Functionality in Materials and Devices Based on Conjugated Polymers (Adv. Mater. 22/2019). Advanced Materials, 2019, 31, 1970160.	21.0	2
99	Organogels from Diketopyrrolopyrrole Copolymer Ionene/Polythiophene Blends Exhibit Ground-State Single Electron Transfer in the Solid State. Macromolecules, 2022, 55, 4979-4994.	4.8	2
100	Organic Transistors: Supramolecular Order of Solution-Processed Perylenediimide Thin Films: High-Performance Small-Channel n-Type Organic Transistors (Adv. Funct. Mater. 23/2011). Advanced Functional Materials, 2011, 21, 4478-4478.	14.9	1
101	Naphthalene diimide-based polymeric semiconductors. Effect of chlorine incorporation and n-channel transistors operating in water- CORRIGENDUM. MRS Communications, 2016, 6, 69-69.	1.8	1
102	Heat Sensing: Thermodiffusion-Assisted Pyroelectrics-Enabling Rapid and Stable Heat and Radiation Sensing (Adv. Funct. Mater. 28/2019). Advanced Functional Materials, 2019, 29, 1970194.	14.9	1
103	Thermoelectric Materials: High Thermoelectric Performance in n-Type Perylene Bisimide Induced by the Soret Effect (Adv. Mater. 45/2020). Advanced Materials, 2020, 32, 2070335.	21.0	1
104	Blowin' in the Wind - a Source of Energy: Hybrid Plasmonic and Pyroelectric Harvesting of Light Fluctuations (Advanced Optical Materials 11/2018). Advanced Optical Materials, 2018, 6, 1870043.	7.3	0
105	Lactone Maximization in Rigid Electron-Deficient Semiconducting Polymers Enabling High n-type Organic Thermoelectric Performance. , 0, , .		0
106	Towards mutual electrical doping in polymers. , 0, , .		0
107	Polarization of ferroelectric polymers through electrolytes. , 2022, , 441-455.		0
108	n-Type organic electrochemical transistors: materials and challenges. , 0, , .		0