

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	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
2	Influence of Molecular Weight on the Organic Electrochemical Transistor Performance of Ladder-Type Conjugated Polymers. <i>Advanced Materials</i> , 2022, 34, e2106235.	21.0	86
3	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
4	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
5	Polarization of ferroelectric polymers through electrolytes. , 2022, , 441-455.		0
6	On the Origin of Seebeck Coefficient Inversion in Highly Doped Conducting Polymers. <i>Advanced Functional Materials</i> , 2022, 32, .	14.9	18
7	Organic electrochemical neurons and synapses with ion mediated spiking. <i>Nature Communications</i> , 2022, 13, 901.	12.8	110
8	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
9	Low-Power/High-Gain Flexible Complementary Circuits Based on Printed Organic Electrochemical Transistors. <i>Advanced Electronic Materials</i> , 2022, 8, .	5.1	39
10	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
11	Rational Materials Design for In Operando Electropolymerization of Evolvable Organic Electrochemical Transistors. <i>Advanced Functional Materials</i> , 2022, 32, .	14.9	6
12	Natural Product Betulin-Based Insulating Polymer Filler in Organic Solar Cells. <i>Solar Rrl</i> , 2022, 6, .	5.8	7
13	Charge transport in doped conjugated polymers for organic thermoelectrics. <i>Chemical Physics Reviews</i> , 2022, 3, .	5.7	19
14	Organogels from Diketopyrrolopyrrole Copolymer Ionene/Polythiophene Blends Exhibit Ground-State Single Electron Transfer in the Solid State. <i>Macromolecules</i> , 2022, 55, 4979-4994.	4.8	2
15	Amphipathic Side Chain of a Conjugated Polymer Optimizes Dopant Location toward Efficient n-Type Organic Thermoelectrics. <i>Advanced Materials</i> , 2021, 33, e2006694.	21.0	91
16	Negatively-Doped Conducting Polymers for Oxygen Reduction Reaction. <i>Advanced Energy Materials</i> , 2021, 11, 2002664.	19.5	28
17	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
18	Enhanced ionic transport in ferroelectric polymer fiber mats. <i>Journal of Materials Chemistry A</i> , 2021, 9, 22418-22427.	10.3	8

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19	Synthesis and Electronic Properties of Diketopyrrolopyrrole-Based Polymers with and without Ring-Fusion. <i>Macromolecules</i> , 2021, 54, 970-980.	4.8	23
20	Processable High Electron Mobility π - π Copolymers via Mesoscale Backbone Conformational Ordering. <i>Advanced Functional Materials</i> , 2021, 31, 2009359.	14.9	16
21	A Biomimetic Evolvable Organic Electrochemical Transistor. <i>Advanced Electronic Materials</i> , 2021, 7, 2001126.	5.1	26
22	A high-conductivity n-type polymeric ink for printed electronics. <i>Nature Communications</i> , 2021, 12, 2354.	12.8	120
23	Mixed Ionic-Electronic Transport in Polymers. <i>Annual Review of Materials Research</i> , 2021, 51, 73-99.	9.3	49
24	Unconventional Thermoelectric Materials for Energy Harvesting and Sensing Applications. <i>Chemical Reviews</i> , 2021, 121, 12465-12547.	47.7	186
25	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
26	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
27	Wearable Thermoelectric Materials and Devices for Self-Powered Electronic Systems. <i>Advanced Materials</i> , 2021, 33, e2102990.	21.0	221
28	Transition metal-catalysed molecular n-doping of organic semiconductors. <i>Nature</i> , 2021, 599, 67-73.	27.8	152
29	Stretchable helix-structured fibre electronics. <i>Nature Electronics</i> , 2021, 4, 864-865.	26.0	6
30	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
31	$\text{Mo}_{1.33}\text{C}$ 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
32	Conductive polymer nanoantennas for dynamic organic plasmonics. <i>Nature Nanotechnology</i> , 2020, 15, 35-40.	31.5	70
33	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
34	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
35	High yield manufacturing of fully screen-printed organic electrochemical transistors. <i>Npj Flexible Electronics</i> , 2020, 4, .	10.7	52
36	Mixed ion-electron transport in organic electrochemical transistors. <i>Applied Physics Letters</i> , 2020, 117, .	3.3	30

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37	High Thermoelectric Performance in n-Type Perylene Bisimide Induced by the Soret Effect. <i>Advanced Materials</i> , 2020, 32, e2002752.	21.0	53
38	Thermoelectric Materials: High Thermoelectric Performance in n-Type Perylene Bisimide Induced by the Soret Effect (<i>Adv. Mater.</i> 45/2020). <i>Advanced Materials</i> , 2020, 32, 2070335.	21.0	1
39	Ground-state electron transfer in all-polymer donor-acceptor heterojunctions. <i>Nature Materials</i> , 2020, 19, 738-744.	27.5	111
40	All-Solid-State Organic Schmitt Trigger Implemented by Twin Two-Phase One Ferroelectric Memory Transistors. <i>Advanced Electronic Materials</i> , 2020, 6, 1901263.	5.1	5
41	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
42	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
43	Monolithic integration of display driver circuits and displays manufactured by screen printing. <i>Flexible and Printed Electronics</i> , 2020, 5, 024001.	2.7	22
44	Cellulose-Conducting Polymer Aerogels for Efficient Solar Steam Generation. <i>Advanced Sustainable Systems</i> , 2020, 4, 2000004.	5.3	74
45	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
46	Interfaces in organic electronics. <i>Nature Reviews Materials</i> , 2019, 4, 627-650.	48.7	237
47	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
48	Heat Sensing: Thermodiffusion-Assisted Pyroelectrics Enabling Rapid and Stable Heat and Radiation Sensing (<i>Adv. Funct. Mater.</i> 28/2019). <i>Advanced Functional Materials</i> , 2019, 29, 1970194.	14.9	1
49	Asymmetric Aqueous Supercapacitor Based on p- and n-Type Conducting Polymers. <i>ACS Applied Energy Materials</i> , 2019, 2, 5350-5355.	5.1	44
50	A ferroelectric polymer introduces addressability in electrophoretic display cells. <i>Flexible and Printed Electronics</i> , 2019, 4, 035004.	2.7	4
51	All-printed large-scale integrated circuits based on organic electrochemical transistors. <i>Nature Communications</i> , 2019, 10, 5053.	12.8	156
52	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
53	An Evolvable Organic Electrochemical Transistor for Neuromorphic Applications. <i>Advanced Science</i> , 2019, 6, 1801339.	11.2	138
54	Organic Electrochemical Devices: Ion Electron-Coupled Functionality in Materials and Devices Based on Conjugated Polymers (<i>Adv. Mater.</i> 22/2019). <i>Advanced Materials</i> , 2019, 31, 1970160.	21.0	2

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55	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
56	Conducting Polymer Bolometers for Low-Cost IR-Detection Systems. Advanced Electronic Materials, 2019, 5, 1800975.	5.1	16
57	Polymer gels with tunable ionic Seebeck coefficient for ultra-sensitive printed thermopiles. Nature Communications, 2019, 10, 1093.	12.8	174
58	Thermodiffusion-Assisted Pyroelectrics Enabling Rapid and Stable Heat and Radiation Sensing. Advanced Functional Materials, 2019, 29, 1900572.	14.9	14
59	Effect of Backbone Regiochemistry on Conductivity, Charge Density, and Polaron Structure of n-Doped Donor-Acceptor Polymers. Chemistry of Materials, 2019, 31, 3395-3406.	6.7	44
60	A Multiparameter Pressure-Temperature-Humidity Sensor Based on Mixed Ionic-Electronic Cellulose Aerogels. Advanced Science, 2019, 6, 1802128.	11.2	114
61	Ion Electron-Coupled Functionality in Materials and Devices Based on Conjugated Polymers. Advanced Materials, 2019, 31, e1805813.	21.0	118
62	Double doping of conjugated polymers with monomer molecular dopants. Nature Materials, 2019, 18, 149-155.	27.5	225
63	Hybrid Plasmonic and Pyroelectric Harvesting of Light Fluctuations. Advanced Optical Materials, 2018, 6, 1701051.	7.3	15
64	A Free-Standing High-Output Power Density Thermoelectric Device Based on Structure-Ordered PEDOT:PSS. Advanced Electronic Materials, 2018, 4, 1700496.	5.1	73
65	Complementary Logic Circuits Based on High-Performance n-Type Organic Electrochemical Transistors. Advanced Materials, 2018, 30, 1704916.	21.0	206
66	Enhanced n-Doping Efficiency of a Naphthalenediimide-Based Copolymer through Polar Side Chains for Organic Thermoelectrics. ACS Energy Letters, 2018, 3, 278-285.	17.4	220
67	A Chemically Doped Naphthalenediimide-Bithiazole Polymer for n-Type Organic Thermoelectrics. Advanced Materials, 2018, 30, e1801898.	21.0	165
68	n-Type organic electrochemical transistors: materials and challenges. Journal of Materials Chemistry C, 2018, 6, 11778-11784.	5.5	122
69	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
70	Ionic thermoelectric gating organic transistors. Nature Communications, 2017, 8, 14214.	12.8	99
71	Effect of (3-glycidyloxypropyl)trimethoxysilane (GOPS) on the electrical properties of PEDOT:PSS films. Journal of Polymer Science, Part B: Polymer Physics, 2017, 55, 814-820.	2.1	190
72	Ferroelectric surfaces for cell release. Synthetic Metals, 2017, 228, 99-104.	3.9	5

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73	Thermoelectric Polymer Aerogels for Pressure-Temperature Sensing Applications. <i>Advanced Functional Materials</i> , 2017, 27, 1703549.	14.9	133
74	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
75	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
76	Investigation of the dimensionality of charge transport in organic field effect transistors. <i>Physical Review B</i> , 2017, 95, .	3.2	14
77	Ferroelectric polarization induces electronic nonlinearity in ion-doped conducting polymers. <i>Science Advances</i> , 2017, 3, e1700345.	10.3	46
78	Naphthalene diimide-based polymeric semiconductors. Effect of chlorine incorporation and n-channel transistors operating in water- CORRIGENDUM. <i>MRS Communications</i> , 2016, 6, 69-69.	1.8	1
79	Polarization of ferroelectric films through electrolyte. <i>Journal of Physics Condensed Matter</i> , 2016, 28, 105901.	1.8	8
80	Single Crystal-Like Performance in Solution-Coated Thin-Film Organic Field-Effect Transistors. <i>Advanced Functional Materials</i> , 2016, 26, 2379-2386.	14.9	87
81	Naphthalenediimide Polymers with Finely Tuned In-Chain Conjugation: Electronic Structure, Film Microstructure, and Charge Transport Properties. <i>Advanced Materials</i> , 2016, 28, 9169-9174.	21.0	63
82	Thermoelectric Properties of Solution-Processed n-Doped Ladder-Type Conducting Polymers. <i>Advanced Materials</i> , 2016, 28, 10764-10771.	21.0	245
83	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
84	High-Performance Hole Transport and Quasi-Balanced Ambipolar OFETs Based on D-A-A-Thieno-benzos-indigo Polymers. <i>Advanced Electronic Materials</i> , 2016, 2, 1500313.	5.1	32
85	Energy Level Bending in Ultrathin Polymer Layers Obtained through Langmuir-Blodgett Deposition. <i>Advanced Functional Materials</i> , 2016, 26, 1077-1084.	14.9	38
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	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
88	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
89	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
90	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

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91	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
92	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
93	Poly(ethylene imine) Impurities Induce n-doping Reaction in Organic (Semi)Conductors. <i>Advanced Materials</i> , 2014, 26, 6000-6006.	21.0	101
94	Charge Transport Orthogonality in All-Polymer Blend Transistors, Diodes, and Solar Cells. <i>Advanced Energy Materials</i> , 2014, 4, 1301409.	19.5	64
95	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
96	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
97	Bias stress effect in polyelectrolyte-gated organic field-effect transistors. <i>Applied Physics Letters</i> , 2013, 102, 113306.	3.3	24
98	Selecting speed-dependent pathways for a programmable nanoscale texture by wet interfaces. <i>Chemical Society Reviews</i> , 2012, 41, 6859.	38.1	22
99	Asymmetric electron and hole transport in a high-mobility π -conjugated polymer. <i>Physical Review B</i> , 2012, 86,	3.2	63
100	From Monolayer to Multilayer n-Channel Polymeric Field-Effect Transistors with Precise Conformational Order. <i>Advanced Materials</i> , 2012, 24, 951-956.	21.0	109
101	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
102	Supramolecular Order of Solution-Processed Perylene-dimide Thin Films: High-Performance Small-Channel n-Type Organic Transistors. <i>Advanced Functional Materials</i> , 2011, 21, 4479-4486.	14.9	38
103	Organic Transistors: Supramolecular Order of Solution-Processed Perylene-dimide Thin Films: High-Performance Small-Channel n-Type Organic Transistors (<i>Adv. Funct. Mater.</i> 23/2011). <i>Advanced Functional Materials</i> , 2011, 21, 4478-4478.	14.9	1
104	Organoboron Polymers for Photovoltaic Bulk Heterojunctions. <i>Macromolecular Rapid Communications</i> , 2010, 31, 1281-1286.	3.9	58
105	Engineering 3D ordered molecular thin films by nanoscale control. <i>Physical Chemistry Chemical Physics</i> , 2010, 12, 14848.	2.8	15
106	Lactone Maximization in Rigid Electron-Deficient Semiconducting Polymers Enabling High n-type Organic Thermoelectric Performance. , 0, , .		0
107	Towards mutual electrical doping in polymers. , 0, , .		0
108	n-Type organic electrochemical transistors: materials and challenges. , 0, , .		0