

Fei Jiao

List of Publications by Year in descending order

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70
papers

9,855
citations

61984

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82547

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75
all docs

75
docs citations

75
times ranked

8711
citing authors

#	ARTICLE	IF	CITATIONS
1	A Biomimetic Evolvable Organic Electrochemical Transistor. <i>Advanced Electronic Materials</i> , 2021, 7, 2001126.	5.1	26
2	The More, the Better—Recent Advances in Construction of 2D Multi-Heterostructures. <i>Advanced Functional Materials</i> , 2021, 31, 2102049.	14.9	27
3	Unconventional Thermoelectric Materials for Energy Harvesting and Sensing Applications. <i>Chemical Reviews</i> , 2021, 121, 12465-12547.	47.7	186
4	Wearable Thermoelectric Materials and Devices for Self-Powered Electronic Systems. <i>Advanced Materials</i> , 2021, 33, e2102990.	21.0	221
5	Ionic thermoelectric materials and devices. <i>Journal of Energy Chemistry</i> , 2021, 61, 88-103.	12.9	61
6	Insulating polymers for flexible thermoelectric composites: A multi-perspective review. <i>Composites Communications</i> , 2021, 28, 100914.	6.3	20
7	When graphene meets white graphene—recent advances in the construction of graphene and h-BN heterostructures. <i>Nanoscale</i> , 2021, 13, 13174-13194.	5.6	9
8	Polymer-Assisted Space-Confined Strategy for the Foot-Scale Synthesis of Flexible Metal-Organic Framework-Based Composite Films. <i>Journal of the American Chemical Society</i> , 2021, 143, 17526-17534.	13.7	17
9	Continuous orientated growth of scaled single-crystal 2D monolayer films. <i>Nanoscale Advances</i> , 2021, 3, 6545-6567.	4.6	3
10	Solar Heat-Enhanced Energy Conversion in Devices Based on Photosynthetic Membranes and PEDOT:PSS-Nanocellulose Electrodes. <i>Advanced Sustainable Systems</i> , 2020, 4, 1900100.	5.3	11
11	Two-dimensional porphyrin sheet as an electric and optical sensor material for pH detection: A DFT study. <i>Computational Materials Science</i> , 2020, 174, 109485.	3.0	17
12	Ion-Selective Electrocatalysis on Conducting Polymer Electrodes: Improving the Performance of Redox Flow Batteries. <i>Advanced Functional Materials</i> , 2020, 30, 2007009.	14.9	21
13	Effect of Sulfonation Level on Lignin/Carbon Composite Electrodes for Large-Scale Organic Batteries. <i>ACS Sustainable Chemistry and Engineering</i> , 2020, 8, 17933-17944.	6.7	15
14	Unraveling vertical inhomogeneity in vapour phase polymerized PEDOT:Tos films. <i>Journal of Materials Chemistry A</i> , 2020, 8, 18726-18734.	10.3	22
15	High Thermoelectric Performance in n-Type Perylene Bisimide Induced by the Soret Effect. <i>Advanced Materials</i> , 2020, 32, e2002752.	21.0	53
16	Organic-Inorganic Hybrid Nanomaterials for Electrocatalytic CO ₂ Reduction. <i>Small</i> , 2020, 16, e2001847.	10.0	79
17	Elastic conducting polymer composites in thermoelectric modules. <i>Nature Communications</i> , 2020, 11, 1424.	12.8	134
18	Cellulose-Conducting Polymer Aerogels for Efficient Solar Steam Generation. <i>Advanced Sustainable Systems</i> , 2020, 4, 2000004.	5.3	74

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19	Molecular Oxygen Activation at a Conducting Polymer: Electrochemical Oxygen Reduction Reaction at PEDOT Revisited, a Theoretical Study. <i>Journal of Physical Chemistry C</i> , 2020, 124, 13263-13272.	3.1	32
20	Interfaces in organic electronics. <i>Nature Reviews Materials</i> , 2019, 4, 627-650.	48.7	237
21	Asymmetric Aqueous Supercapacitor Based on p- and n-Type Conducting Polymers. <i>ACS Applied Energy Materials</i> , 2019, 2, 5350-5355.	5.1	44
22	Twinning Lignosulfonate with a Conducting Polymer via Counterion Exchange for Large-Scale Electrical Storage. <i>Advanced Sustainable Systems</i> , 2019, 3, 1900039.	5.3	17
23	Conducting Polymer Bolometers for Low-Cost IR Detection Systems. <i>Advanced Electronic Materials</i> , 2019, 5, 1800975.	5.1	16
24	Poly(3,4-ethylenedioxythiophene): Chemical Synthesis, Transport Properties, and Thermoelectric Devices. <i>Advanced Electronic Materials</i> , 2019, 5, 1800918.	5.1	93
25	Polymer gels with tunable ionic Seebeck coefficient for ultra-sensitive printed thermopiles. <i>Nature Communications</i> , 2019, 10, 1093.	12.8	174
26	A Multiparameter Pressure-Temperature-Humidity Sensor Based on Mixed Ionic-Electronic Cellulose Aerogels. <i>Advanced Science</i> , 2019, 6, 1802128.	11.2	114
27	Polarons, Bipolarons, And Absorption Spectroscopy of PEDOT. <i>ACS Applied Polymer Materials</i> , 2019, 1, 83-94.	4.4	217
28	Ion Electron-Coupled Functionality in Materials and Devices Based on Conjugated Polymers. <i>Advanced Materials</i> , 2019, 31, e1805813.	21.0	118
29	Nanofibrillated Cellulose-Based Electrolyte and Electrode for Paper-Based Supercapacitors. <i>Advanced Sustainable Systems</i> , 2018, 2, 1700121.	5.3	38
30	A Free-Standing High-Output Power Density Thermoelectric Device Based on Structure-Ordered PEDOT:PSS. <i>Advanced Electronic Materials</i> , 2018, 4, 1700496.	5.1	73
31	Understanding the Impact of Film Disorder and Local Surface Potential in Ultraviolet Photoelectron Spectroscopy of PEDOT. <i>Macromolecular Rapid Communications</i> , 2018, 39, 1700533.	3.9	22
32	Correlating the Seebeck coefficient of thermoelectric polymer thin films to their charge transport mechanism. <i>Organic Electronics</i> , 2018, 52, 335-341.	2.6	73
33	Bulk electronic transport impacts on electron transfer at conducting polymer electrode-electrolyte interfaces. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, 11899-11904.	7.1	61
34	Thermoelectric materials and applications for energy harvesting power generation. <i>Science and Technology of Advanced Materials</i> , 2018, 19, 836-862.	6.1	413
35	Conducting Polymer Electrocatalysts for Proton-Coupled Electron Transfer Reactions: Toward Organic Fuel Cells with Forest Fuels. <i>Advanced Sustainable Systems</i> , 2018, 2, 1800021.	5.3	18
36	Ionic thermoelectric gating organic transistors. <i>Nature Communications</i> , 2017, 8, 14214.	12.8	99

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37	Room temperature synthesis of transition metal silicide-conducting polymer micro-composites for thermoelectric applications. <i>Synthetic Metals</i> , 2017, 225, 55-63.	3.9	9
38	Ionic Thermoelectric Figure of Merit for Charging of Supercapacitors. <i>Advanced Electronic Materials</i> , 2017, 3, 1700013.	5.1	146
39	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
40	Understanding the Capacitance of PEDOT:PSS. <i>Advanced Functional Materials</i> , 2017, 27, 1700329.	14.9	275
41	Thermoelectric Polymer Aerogels for Pressure-Temperature Sensing Applications. <i>Advanced Functional Materials</i> , 2017, 27, 1703549.	14.9	133
42	Poly(3,4-ethylenedioxythiophene)-tosylate (PEDOT-Tos) electrodes in thermogalvanic cells. <i>Journal of Materials Chemistry A</i> , 2017, 5, 19619-19625.	10.3	44
43	Ionic thermoelectric paper. <i>Journal of Materials Chemistry A</i> , 2017, 5, 16883-16888.	10.3	79
44	Ground-state charge transfer for NIR absorption with donor/acceptor molecules: interactions mediated via energetics and orbital symmetries. <i>Journal of Materials Chemistry C</i> , 2017, 5, 275-281.	5.5	20
45	Thermoelectric Polymers and their Elastic Aerogels. <i>Advanced Materials</i> , 2016, 28, 4556-4562.	21.0	157
46	An Organic Mixed Ion-Electron Conductor for Power Electronics. <i>Advanced Science</i> , 2016, 3, 1500305.	11.2	188
47	Thermoelectric Properties of Polymeric Mixed Conductors. <i>Advanced Functional Materials</i> , 2016, 26, 6288-6296.	14.9	96
48	Thermoelectric Properties of Solution-Processed Doped Ladder-Type Conducting Polymers. <i>Advanced Materials</i> , 2016, 28, 10764-10771.	21.0	245
49	Thermoelectrics: Carbon nanotubes get high. <i>Nature Energy</i> , 2016, 1, .	39.5	18
50	Flexible Type High-Performance Thermoelectric Thin Films of Poly(nickel-ethylenetetrathiolate) Prepared by an Electrochemical Method. <i>Advanced Materials</i> , 2016, 28, 3351-3358.	21.0	206
51	Significant Electronic Thermal Transport in the Conducting Polymer Poly(3,4-ethylenedioxythiophene). <i>Advanced Materials</i> , 2015, 27, 2101-2106.	21.0	176
52	Interface-Located Photothermoelectric Effect of Organic Thermoelectric Materials in Enabling NIR Detection. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 8968-8973.	8.0	45
53	Ionic Seebeck Effect in Conducting Polymers. <i>Advanced Energy Materials</i> , 2015, 5, 1500044.	19.5	178
54	Acido-basic control of the thermoelectric properties of poly(3,4-ethylenedioxythiophene)tosylate (PEDOT-Tos) thin films. <i>Journal of Materials Chemistry C</i> , 2015, 3, 10616-10623.	5.5	147

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55	Experimental evidence that short-range intermolecular aggregation is sufficient for efficient charge transport in conjugated polymers. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 10599-10604.	7.1	175
56	Inkjet-printed flexible organic thin-film thermoelectric devices based on p- and n-type poly(metal) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 7 Series A, Mathematical, Physical, and Engineering Sciences, 2014, 372, 20130008.	3.4	116
57	A novel cuprous ethylenetetrathiolate coordination polymer: Structure characterization, thermoelectric property optimization and a bulk thermogenerator demonstration. Synthetic Metals, 2014, 193, 1-7.	3.9	32
58	Semi-metallic polymers. Nature Materials, 2014, 13, 190-194.	27.5	722
59	Optimization of the thermoelectric properties of poly[Cux(Cu-ethylenetetrathiolate)]. Synthetic Metals, 2014, 188, 111-115.	3.9	18
60	An easily accessible carbon material derived from carbonization of polyacrylonitrile ultrathin films: ambipolar transport properties and application in a CMOS-like inverter. Chemical Communications, 2014, 50, 2374.	4.1	13
61	Synthesis of Wurtzite Cu ₂ ZnGeSe ₄ Nanocrystals and their Thermoelectric Properties. Chemistry - an Asian Journal, 2013, 8, 2383-2387.	3.3	21
62	Effects of structural order in the pristine state on the thermoelectric power-factor of doped PBTTT films. Synthetic Metals, 2012, 162, 788-793.	3.9	42
63	Tuning the Thermoelectric Properties of Conducting Polymers in an Electrochemical Transistor. Journal of the American Chemical Society, 2012, 134, 16456-16459.	13.7	269
64	Towards polymer-based organic thermoelectric generators. Energy and Environmental Science, 2012, 5, 9345.	30.8	684
65	Organic Thermoelectric Materials and Devices Based on <i>p</i>- and <i>n</i>-Type Poly(metal) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 7	21.0	448
66	Optimization of the thermoelectric figure of merit in the conducting polymer poly(3,4-ethylenedioxythiophene). Nature Materials, 2011, 10, 429-433.	27.5	1,518
67	Controlling the Dimensionality of Charge Transport in an Organic Electrochemical Transistor by Capacitive Coupling. Advanced Materials, 2011, 23, 4764-4769.	21.0	52
68	Effect of the Ionic Conductivity on the Performance of Polyelectrolyte-Based Supercapacitors. Advanced Functional Materials, 2010, 20, 4344-4350.	14.9	83
69	A Water-Gate Organic Field-Effect Transistor. Advanced Materials, 2010, 22, 2565-2569.	21.0	265
70	Insulator Polarization Mechanisms in Polyelectrolyte-Gated Organic Field-Effect Transistors. Advanced Functional Materials, 2009, 19, 3334-3341.	14.9	181