Fengjiao Zhang

List of Publications by Year
in descending order

59 papers	6,384 citations	117625 34 h-index	161849 54 g-index
59 all docs	59 docs citations	59 times ranked	8551 citing authors

#	Article	IF	Citations
1	Advances of flexible pressure sensors toward artificial intelligence and health care applications. Materials Horizons, 2015, 2, 140-156.	12.2	995
2	A two-dimensional Ï€â€“d conjugated coordination polymer with extremely high electrical conductivity and ambipolar transport behaviour. Nature Communications, 2015, 6, 7408.	12.8	609
3	Flexible suspended gate organic thin-film transistors for ultra-sensitive pressure detection. Nature Communications, 2015, 6, 6269.	12.8	473
4	Flexible and self-powered temperatureâ€“pressure dual-parameter sensors using microstructure-frame-supported organic thermoelectric materials. Nature Communications, 2015, 6, 8356.	12.8	453
5	Critical Role of Alkyl Chain Branching of Organic Semiconductors in Enabling Solution-Processed N-Channel Organic Thin-Film Transistors with Mobility of up to 3.50 cm² V^{â€“1} s^{â€“1}. Journal of the American Chemical Society, 2013, 135, 2338-2349.	13.7	379
6	Toward High Performance n-Type Thermoelectric Materials by Rational Modification of BDPPV Backbones. Journal of the American Chemical Society, 2015, 137, 6979-6982.	13.7	345
7	Multiâ€Functional Integration of Organic Fieldâ€Effect Transistors (OFETs): Advances and Perspectives. Advanced Materials, 2013, 25, 313-330.	21.0	287
8	Diketopyrrolopyrrole-Containing Quinoidal Small Molecules for High-Performance, Air-Stable, and Solution-Processable n-Channel Organic Field-Effect Transistors. Journal of the American Chemical Society, 2012, 134, 4084-4087.	13.7	280
9	Ultrathin Film Organic Transistors: Precise Control of Semiconductor Thickness via Spinâ€Coating. Advanced Materials, 2013, 25, 1401-1407.	21.0	222
10	Conjugated-Backbone Effect of Organic Small Molecules for n-Type Thermoelectric Materials with ZT over 0.2. Journal of the American Chemical Society, 2017, 139, 13013-13023.	13.7	215
11	Flexible nâ€Type Highâ€Performance Thermoelectric Thin Films of Poly(nickelâ€ethylenetetrathiolate) Prepared by an Electrochemical Method. Advanced Materials, 2016, 28, 3351-3358.	21.0	206
12	Seleniumâ€Substituted Diketopyrrolopyrrole Polymer for Highâ€Performance pâ€Type Organic Thermoelectric Materials. Angewandte Chemie - International Edition, 2019, 58, 18994-18999.	13.8	136
13	Solutionâ€Processed Nanoporous Organic Semiconductor Thin Films: Toward Health and Environmental Monitoring of Volatile Markers. Advanced Functional Materials, 2017, 27, 1701117.	14.9	127
14	Modulated Thermoelectric Properties of Organic Semiconductors Using Fieldâ€Effect Transistors. Advanced Functional Materials, 2015, 25, 3004-3012.	14.9	94
15	Pursuing Highâ€Mobility nâ€Type Organic Semiconductors by Combination of â€œMoleculeâ€Frameworkâ€• and â€œSideâ€Chainâ€• Engineering. Advanced Materials, 2016, 28, 8456-8462.	21.0	93
16	Rotator side chains trigger cooperative transition for shape and function memory effect in organic semiconductors. Nature Communications, 2018, 9, 278.	12.8	90
17	Specific and Reproducible Gas Sensors Utilizing Gasâ€Phase Chemical Reaction on Organic Transistors. Advanced Materials, 2014, 26, 2862-2867.	21.0	86
18	An organic transistor with light intensity-dependent active photoadaptation. Nature Electronics, 2021, 4, 522-529.	26.0	83

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19	Exploring Thermoelectric Materials from High Mobility Organic Semiconductors. Chemistry of Materials, 2020, 32, 2688-2702.	6.7	82
20	Dynamic-template-directed multiscale assembly for large-area coating of highly-aligned conjugated polymer thin films. Nature Communications, 2017, 8, 16070.	12.8	78
21	A Flexible Selfâ€Powered Sensing Element with Integrated Organic Thermoelectric Generator. Advanced Materials Technologies, 2019, 4, 1900247.	5.8	64
22	One-Pot Synthesis of Core-Expanded Naphthalene Diimides: Enabling N-Substituent Modulation for Diverse n-Type Organic Materials. Organic Letters, 2012, 14, 292-295.	4.6	63
23	Critical Role of Surface Energy in Guiding Crystallization of Solution-Coated Conjugated Polymer Thin Films. Langmuir, 2018, 34, 1109-1122.	3.5	62
24	Advances in organic thermoelectric materials and devices for smart applications. SmartMat, 2021, 2, 426-445.	10.7	62
25	Solution-sheared ultrathin films for highly-sensitive ammonia detection using organic thin-film transistors. Journal of Materials Chemistry C, 2014, 2, 1264.	5.5	60
26	1,2,5,6-Naphthalenediimide Based Donorâ€“Acceptor Copolymers Designed from Isomer Chemistry for Organic Semiconducting Materials. Macromolecules, 2013, 46, 7705-7714.	4.8	56
27	Sensitive Flexible Magnetic Sensors using Organic Transistors with Magneticâ€Functionalized Suspended Gate Electrodes. Advanced Materials, 2015, 27, 7979-7985.	21.0	52
28	Large Modulation of Charge Carrier Mobility in Doped Nanoporous Organic Transistors. Advanced Materials, 2017, 29, 1700411.	21.0	51
29	Interface-Located Photothermoelectric Effect of Organic Thermoelectric Materials in Enabling NIR Detection. ACS Applied Materials & Interfaces, 2015, 7, 8968-8973.	8.0	45
30	Understanding Interfacial Alignment in Solution Coated Conjugated Polymer Thin Films. ACS Applied Materials & Interfaces, 2017, 9, 27863-27874.	8.0	42
31	Enabling Multifunctional Organic Transistors with Fine-Tuned Charge Transport. Accounts of Chemical Research, 2019, 52, 1113-1124.	15.6	41
32	Naphthalenediimides Fused with 2-(1,3-Dithiol-2-ylidene)acetonitrile: Strong Electron-Deficient Building Blocks for High-Performance n-Type Polymeric Semiconductors. ACS Macro Letters, 2014, 3, 1174-1177.	4.8	39
33	Superâ€and Ferroelastic Organic Semiconductors for Ultraflexible Singleâ€Crystal Electronics. Angewandte Chemie - International Edition, 2020, 59, 13004-13012.	13.8	39
34	All-brush-painted top-gate organic thin-film transistors. Journal of Materials Chemistry C, 2013, 1, 3072.	5.5	37
35	Enhanced Thermoelectric Performance of nâ€Type Organic Semiconductor via Electric Field Modulated Photoâ€Thermoelectric Effect. Advanced Materials, 2020, 32, e2000273.	21.0	31
36	Electronic structure engineering in organic thermoelectric materials. Journal of Energy Chemistry, 2021, 62, 204-219.	12.9	30

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37	Repurposing DNA-binding agents as H-bonded organic semiconductors. Nature Communications, 2019, 10, 4217.	12.8	28
38	n-Type thermoelectric materials based on CuTCNQ nanocrystals and CuTCNQ nanorod arrays. Journal of Materials Chemistry A, 2015, 3, 2677-2683.	10.3	25
39	Orientationâ€Dependent Hostâ€“Dopant Interactions for Manipulating Charge Transport in Conjugated Polymers. Advanced Materials, 2020, 32, e2002823.	21.0	20
40	Printing 2D Conjugated Polymer Monolayers and Their Distinct Electronic Properties. Advanced Functional Materials, 2020, 30, 1909787.	14.9	20
41	Seleniumâ€Substituted Diketopyrrolopyrrole Polymer for Highâ€Performance pâ€Type Organic Thermoelectric Materials. Angewandte Chemie, 2019, 131, 19170-19175.	2.0	18
42	Understanding Film-To-Stripe Transition of Conjugated Polymers Driven by Meniscus Instability. ACS Applied Materials & Interfaces, 2018, 10, 40692-40701.	8.0	17
43	Lyotropic Liquid Crystalline Mesophase Governs Interfacial Molecular Orientation of Conjugated Polymer Thin Films. Chemistry of Materials, 2020, 32, 6043-6054.	6.7	17
44	Natural Material Inspired Organic Thin-Film Transistors for Biosensing: Properties and Applications. , 2022, 4, 918-937.		17
45	Effect of Molecular Asymmetry on the Charge Transport Physics of High Mobility n-Type Molecular Semiconductors Investigated by Scanning Kelvin Probe Microscopy. ACS Nano, 2014, 8, 6778-6787.	14.6	16
46	Solution Coating of Pharmaceutical Nanothin Films and Multilayer Nanocomposites with Controlled Morphology and Polymorphism. ACS Applied Materials & Interfaces, 2018, 10, 10480-10489.	8.0	15
47	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
48	Ionâ€Gating Engineering of Organic Semiconductors toward Multifunctional Devices. Advanced Functional Materials, 2021, 31, 2102149.	14.9	13
49	Ion Gel Dynamic Templates for Large Modulation of Morphology and Charge Transport Properties of Solution-Coated Conjugated Polymer Thin Films. ACS Applied Materials & Interfaces, 2019, 11, 22561-22574.	8.0	12
50	An Oligonucleotideâ€Distortionâ€Responsive Organic Transistor for Platinumâ€Drugâ€Induced DNAâ€Damage Detection. Advanced Materials, 2021, 33, e2100489.	21.0	10
51	Superâ€and Ferroelastic Organic Semiconductors for Ultraflexible Singleâ€Crystal Electronics. Angewandte Chemie, 2020, 132, 13104-13112.	2.0	9
52	Vapor-induced marangoni coating for organic functional films. Journal of Materials Chemistry C, 2021, 9, 17518-17525.	5.5	9
53	Advances in morphology control of organic semiconductor enabled organic transistor-based chemical sensors. Molecular Systems Design and Engineering, 2022, 7, 553-568.	3.4	6
54	Organic Electronics: Ultrathin Film Organic Transistors: Precise Control of Semiconductor Thickness via Spinâ€Coating (Adv. Mater. 10/2013). Advanced Materials, 2013, 25, 1370-1370.	21.0	5

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55	Hierarchical Heterojunction Enhanced Photodoping of Polymeric Semiconductor for Photodetection and Photothermoelectric Applications. , 2022, 4, 815-822.		5
56	Role of Interfacial Interactions in the Graphene-Directed Assembly of Monolayer Conjugated Polymers. Langmuir, 2022, 38, 6984-6995.	3.5	2
57	Organic Electronics: Pursuing Highâ€Mobility nâ€Type Organic Semiconductors by Combination of â€œMoleculeâ€Frameworkâ€•and â€œSideâ€Chainâ€•Engineering (Adv. Mater. 38/2016). Advanced Materials, 2016, 28, 8455-8455.	21.95	0
58	Thin Films: Solutionâ€Processed Nanoporous Organic Semiconductor Thin Films: Toward Health and Environmental Monitoring of Volatile Markers (Adv. Funct. Mater. 23/2017). Advanced Functional Materials, 2017, 27, .	14.9	0
59	Inside Front Cover: Volume 2 Issue 4. SmartMat, 2021, 2, .	10.7	0