Jianguo Mei

List of Publications by Year
in descending order

108 papers	14,541 citations	36271 51 h-index	29127 104 g-index
114 all docs	114 docs citations	114 times ranked	17762 citing authors

#	Article	IF	Citations
1	Backbone flexibility on conjugated polymer's crystallization behavior and thin film mechanical stability. Journal of Polymer Science, 2022, 60, 548-558.	2.0	7
2	Printing dynamic color palettes and layered textures through modeling-guided stacking of electrochromic polymers. Materials Horizons, 2022, 9, 425-432.	6.4	18
3	Improving Electrochemical Cycling Stability of Conjugated Yellow-to-Transmissive Electrochromic Polymers by Regulating Effective Overpotentials. , 2022, 4, 336-342.		15
4	Radical Polymer-Based Organic Electrochemical Transistors. ACS Macro Letters, 2022, 11, 243-250.	2.3	11
5	What's next for semiconducting polymers. Journal of Polymer Science, 2022, 60, 287-289.	2.0	5
6	Tetracyanocyclopentadienide-Based Stable Poly(aromatic) Anions. ACS Macro Letters, 2022, 11, 72-77.	2.3	5
7	Doping kinetics in organic mixed ionicâ€“electronic conductors: Moving front experiments and the stress effect. Extreme Mechanics Letters, 2022, 54, 101739.	2.0	3
8	n-type charge transport in heavily p-doped polymers. Nature Materials, 2021, 20, 518-524.	13.3	66
9	Ambient Oxygen-Doped Conjugated Polymer for pH-Activatable Aggregation-Enhanced Photoacoustic Imaging in the Second Near-Infrared Window. Analytical Chemistry, 2021, 93, 3189-3195.	3.2	18
10	Neural Stimulation InÂVitro and InÂVivo by Photoacoustic Nanotransducers. Matter, 2021, 4, 654-674.	5.0	32
11	Organic Cation Engineering for Vertical Charge Transport in Leadâ€Free Perovskite Quantum Wells. Small Science, 2021, 1, 2000024.	5.8	8
12	Thermally Stable and Solvent-Resistant Conductive Polymer Composites with Cross-Linked Siloxane Network. ACS Applied Polymer Materials, 2021, 3, 1537-1543.	2.0	9
13	Electrochromic Properties of Perovskite NdNiO₃ Thin Films for Smart Windows. ACS Applied Electronic Materials, 2021, 3, 1719-1731.	2.0	16
14	Catalytic Synthesis of Conjugated Azopolymers from Aromatic Diazides. Journal of the American Chemical Society, 2021, 143, 3975-3982.	6.6	23
15	Bioinspired Dynamic Camouflage from Colloidal Nanocrystals Embedded Electrochromics. Nano Letters, 2021, 21, 4500-4507.	4.5	40
16	Device Engineering in Organic Electrochemical Transistors toward Multifunctional Applications. ACS Applied Electronic Materials, 2021, 3, 2434-2448.	2.0	16
17	Multifunctional Conjugated Ligand Engineering for Stable and Efficient Perovskite Solar Cells. Advanced Materials, 2021, 33, e2100791.	11.1	99
18	Designing Donorâ€“Acceptor Copolymers for Stable and High-Performance Organic Electrochemical Transistors. ACS Macro Letters, 2021, 10, 1061-1067.	2.3	24

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19	Evolution of Chain Dynamics and Oxidation States with Increasing Chain Length for a Donorâ€“Acceptor-Conjugated Oligomer Series. Macromolecules, 2021, 54, 8207-8219.	2.2	11
20	Stabilizing Hybrid Electrochromic Devices through Pairing Electrochromic Polymers with Minimally Color-Changing Ion-Storage Materials Having Closely Matched Electroactive Voltage Windows. ACS Applied Materials & Interfaces, 2021, 13, 5312-5318.	4.0	28
21	Conjugated electrochromic polymers with amide-containing side chains enabling aqueous electrolyte compatibility. Polymer Chemistry, 2020, 11, 508-516.	1.9	23
22	Effects of Side Chain on High Temperature Operation Stability of Conjugated Polymers. ACS Applied Polymer Materials, 2020, 2, 91-97.	2.0	19
23	Polymer Electrochromism Driven by Metabolic Activity Facilitates Rapid and Facile Bacterial Detection and Susceptibility Evaluation. Advanced Functional Materials, 2020, 30, 2005192.	7.8	17
24	Impact of Backbone Rigidity on the Thermomechanical Properties of Semiconducting Polymers with Conjugation Break Spacers. Macromolecules, 2020, 53, 6032-6042.	2.2	63
25	Contact Effect in High-Temperature Conjugated Polymer Transistors. ACS Applied Electronic Materials, 2020, 2, 2454-2460.	2.0	4
26	In Situ Measurement of Breathing Strain and Mechanical Degradation in Organic Electrochromic Polymers. ACS Applied Materials & Interfaces, 2020, 12, 50889-50895.	4.0	12
27	N-Type Complementary Semiconducting Polymer Blends. ACS Applied Polymer Materials, 2020, 2, 2644-2650.	2.0	9
28	Preparative Mass Spectrometry Using a Rotatingâ€Wall Mass Analyzer. Angewandte Chemie, 2020, 132, 7785-7790.	1.6	1
29	Preparative Mass Spectrometry Using a Rotatingâ€Wall Mass Analyzer. Angewandte Chemie - International Edition, 2020, 59, 7711-7716.	7.2	11
30	Mechanical breathing in organic electrochromics. Nature Communications, 2020, 11, 211.	5.8	44
31	Functionalized NIRâ€Ⅱ Semiconducting Polymer Nanoparticles for Singleâ€cell to Wholeâ€Organ Imaging of PSMAâ€Positive Prostate Cancer. Small, 2020, 16, e2001215.	5.2	34
32	High Temperature Organic Electronics. MRS Advances, 2020, 5, 505-513.	0.5	3
33	Designing Ï€-conjugated polymer blends with improved thermoelectric power factors. Journal of Materials Chemistry A, 2019, 7, 19774-19785.	5.2	34
34	Solution-processable electrochromic materials and devices: roadblocks and strategies towards large-scale applications. Journal of Materials Chemistry C, 2019, 7, 12761-12789.	2.7	136
35	Tuning conformation, assembly, and charge transport properties of conjugated polymers by printing flow. Science Advances, 2019, 5, eaaw7757.	4.7	105
36	Isoindigo-Based Binary Polymer Blends for Solution-Processing of Semiconducting Nanofiber Networks. ACS Applied Polymer Materials, 2019, 1, 1778-1786.	2.0	13

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37	Polyimide-Based High-Temperature Plastic Electronics. , 2019, 1, 154-157.		27
38	n-Type Organic Field-Effect Transistors Based on Bisthienoisatin Derivatives. ACS Applied Electronic Materials, 2019, 1, 764-771.	2.0	8
39	Oxidation Pathways Involving a Sulfide-Endcapped Donorâ€“Acceptorâ€“Donor Ï€-Conjugated Molecule and Antimony(V) Chloride. Journal of Physical Chemistry B, 2019, 123, 3866-3874.	1.2	7
40	Challenge and Solution of Characterizing Glass Transition Temperature for Conjugated Polymers by Differential Scanning Calorimetry. Journal of Polymer Science, Part B: Polymer Physics, 2019, 57, 1635-1644.	2.4	27
41	Low-Temperature Thermally Annealed Niobium Oxide Thin Films as a Minimally Color Changing Ion Storage Layer in Solution-Processed Polymer Electrochromic Devices. ACS Applied Materials & Interfaces, 2019, 11, 4169-4177.	4.0	42
42	Catalytic Azoarene Synthesis from Aryl Azides Enabled by a Dinuclear Ni Complex. Journal of the American Chemical Society, 2018, 140, 4110-4118.	6.6	61
43	Attaining Melt Processing of Complementary Semiconducting Polymer Blends at 130 Â°C via Side-Chain Engineering. ACS Applied Materials & Interfaces, 2018, 10, 4904-4909.	4.0	22
44	Highly mobile charge-transfer excitons in two-dimensional WS ₂ /tetracene heterostructures. Science Advances, 2018, 4, eaao3104.	4.7	132
45	Critical Role of Surface Energy in Guiding Crystallization of Solution-Coated Conjugated Polymer Thin Films. Langmuir, 2018, 34, 1109-1122.	1.6	62
46	Continuous Meltâ€Drawing of Highly Aligned Flexible and Stretchable Semiconducting Microfibers for Organic Electronics. Advanced Functional Materials, 2018, 28, 1705584.	7.8	39
47	Zoneâ€Annealingâ€Assisted Solventâ€Free Processing of Complementary Semiconducting Polymer Blends for Organic Fieldâ€Effect Transistors. Advanced Electronic Materials, 2018, 4, 1700414.	2.6	9
48	Tunable green electrochromic polymers via direct arylation polymerization. Polymer Chemistry, 2018, 9, 5262-5267.	1.9	20
49	Semiconducting polymer blends that exhibit stable charge transport at high temperatures. Science, 2018, 362, 1131-1134.	6.0	147
50	Side-Chain Sequence Enabled Regioisomeric Acceptors for Conjugated Polymers. Macromolecules, 2018, 51, 8486-8492.	2.2	15
51	Influence of dopant size and electron affinity on the electrical conductivity and thermoelectric properties of a series of conjugated polymers. Journal of Materials Chemistry A, 2018, 6, 16495-16505.	5.2	112
52	Bisâ€isoindigos: New Electronâ€Deficient Building Blocks for Constructing Conjugated Polymers with Extended Electron Delocalization. Asian Journal of Organic Chemistry, 2018, 7, 2248-2253.	1.3	15
53	Highly Transparent Crosslinkable Radical Copolymer Thin Film as the Ion Storage Layer in Organic Electrochromic Devices. ACS Applied Materials & Interfaces, 2018, 10, 18956-18963.	4.0	37
54	Solutionâ€Processed Nanoporous Organic Semiconductor Thin Films: Toward Health and Environmental Monitoring of Volatile Markers. Advanced Functional Materials, 2017, 27, 1701117.	7.8	127

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55	Meltâ€Processing of Complementary Semiconducting Polymer Blends for High Performance Organic Transistors. Advanced Materials, 2017, 29, 1605056.	11.1	82
56	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, .	7.8	0
57	Direct arylation polymerization of asymmetric pushâ€“pull aryl halides. Polymer Chemistry, 2017, 8, 2438-2441.	1.9	14
58	Semiconducting Polymer Nanoparticles for Centimetersâ€Deep Photoacoustic Imaging in the Second Nearâ€Infrared Window. Advanced Materials, 2017, 29, 1703403.	11.1	136
59	Self-Bleaching Behaviors in Black-to-Transmissive Electrochromic Polymer Thin Films. ACS Applied Materials & Interfaces, 2017, 9, 34122-34130.	4.0	25
60	Symmetry Breaking in Side Chains Leading to Mixed Orientations and Improved Charge Transport in Isoindigo-alt-Bithiophene Based Polymer Thin Films. ACS Applied Materials & Interfaces, 2017, 9, 25426-25433.	4.0	58
61	Understanding Interfacial Alignment in Solution Coated Conjugated Polymer Thin Films. ACS Applied Materials & Interfaces, 2017, 9, 27863-27874.	4.0	42
62	Complementary Semiconducting Polymer Blends: Influence of Side Chains of Matrix Polymers. Macromolecules, 2017, 50, 6202-6209.	2.2	23
63	Dynamic-template-directed multiscale assembly for large-area coating of highly-aligned conjugated polymer thin films. Nature Communications, 2017, 8, 16070.	5.8	78
64	Heterocyclic Building Blocks for Organic Semiconductors. Advances in Heterocyclic Chemistry, 2017, 121, 133-171.	0.9	54
65	Combinatorial Study of Temperatureâ€Dependent Nanostructure and Electrical Conduction of Polymer Semiconductors: Even Bimodal Orientation Can Enhance 3D Charge Transport. Advanced Functional Materials, 2016, 26, 4627-4634.	7.8	51
66	OFETs: BASIC CONCEPTS AND MATERIAL DESIGNS. Materials and Energy, 2016, , 19-83.	2.5	5
67	Amineâ€“boranes bearing borane-incompatible functionalities: application to selective amine protection and surface functionalization. Chemical Communications, 2016, 52, 11885-11888.	2.2	32
68	Effect of Broken Conjugation on the Stretchability of Semiconducting Polymers. Macromolecular Rapid Communications, 2016, 37, 1623-1628.	2.0	87
69	An ultra-narrow bandgap derived from thienoisoindigo polymers: structural influence on reducing the bandgap and self-organization. Polymer Chemistry, 2016, 7, 1181-1190.	1.9	42
70	Complementary Semiconducting Polymer Blends: The Influence of Conjugation-Break Spacer Length in Matrix Polymers. Macromolecules, 2016, 49, 2601-2608.	2.2	61
71	Hierarchical N-Doped Carbon as CO₂ Adsorbent with High CO₂ Selectivity from Rationally Designed Polypyrrole Precursor. Journal of the American Chemical Society, 2016, 138, 1001-1009.	6.6	405
72	Significance of the double-layer capacitor effect in polar rubbery dielectrics and exceptionally stable low-voltage high transconductance organic transistors. Scientific Reports, 2015, 5, 17849.	1.6	66

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73	Effect of Spacer Length of Siloxaneâ€Terminated Side Chains on Charge Transport in Isoindigoâ€Based Polymer Semiconductor Thin Films. Advanced Functional Materials, 2015, 25, 3455-3462.	7.8	79
74	Diketopyrrolopyrroleâ€Based Semiconducting Polymer Nanoparticles for In Vivo Photoacoustic Imaging. Advanced Materials, 2015, 27, 5184-5190.	11.1	305
75	Impact of the Crystallite Orientation Distribution on Exciton Transport in Donorâ€“Acceptor Conjugated Polymers. ACS Applied Materials & Interfaces, 2015, 7, 28035-28041.	4.0	20
76	Conjugation-Break Spacers in Semiconducting Polymers: Impact on Polymer Processability and Charge Transport Properties. Macromolecules, 2015, 48, 2048-2053.	2.2	106
77	Complementary Semiconducting Polymer Blends for Efficient Charge Transport. Chemistry of Materials, 2015, 27, 7164-7170.	3.2	57
78	A chameleon-inspired stretchable electronic skin with interactive colour changing controlled by tactile sensing. Nature Communications, 2015, 6, 8011.	5.8	749
79	Side Chain Engineering in Solution-Processable Conjugated Polymers. Chemistry of Materials, 2014, 26, 604-615.	3.2	932
80	High Performance Allâ€Polymer Solar Cell via Polymer Sideâ€Chain Engineering. Advanced Materials, 2014, 26, 3767-3772.	11.1	320
81	Isoindigo, a Versatile Electron-Deficient Unit For High-Performance Organic Electronics. Chemistry of Materials, 2014, 26, 664-678.	3.2	319
82	Semiconducting polymer nanoparticles as photoacoustic molecular imaging probes in living mice. Nature Nanotechnology, 2014, 9, 233-239.	15.6	1,057
83	Sequentially solution-processed, nanostructured polymer photovoltaics using selective solvents. Energy and Environmental Science, 2014, 7, 1103.	15.6	56
84	Highly stable organic polymer field-effect transistor sensor for selective detection in the marine environment. Nature Communications, 2014, 5, 2954.	5.8	362
85	A Rapid and Facile Soft Contact Lamination Method: Evaluation of Polymer Semiconductors for Stretchable Transistors. Chemistry of Materials, 2014, 26, 4544-4551.	3.2	101
86	Thiolâ€“ene Cross-Linked Polymer Gate Dielectrics for Low-Voltage Organic Thin-Film Transistors. Chemistry of Materials, 2013, 25, 4806-4812.	3.2	89
87	Comparison of the Photovoltaic Characteristics and Nanostructure of Fullerenes Blended with Conjugated Polymers with Siloxane-Terminated and Branched Aliphatic Side Chains. Chemistry of Materials, 2013, 25, 431-440.	3.2	74
88	Scalable and Selective Dispersion of Semiconducting Arc-Discharged Carbon Nanotubes by Dithiafulvalene/Thiophene Copolymers for Thin Film Transistors. ACS Nano, 2013, 7, 2659-2668.	7.3	88
89	Integrated Materials Design of Organic Semiconductors for Field-Effect Transistors. Journal of the American Chemical Society, 2013, 135, 6724-6746.	6.6	1,280
90	Flexible polymer transistors with high pressure sensitivity for application in electronic skin and health monitoring. Nature Communications, 2013, 4, 1859.	5.8	1,713

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91	5,11-Conjugation-extended low-bandgap anthradithiophene-containing polymer exhibiting enhanced thin-film order and field-effect mobility. Chemical Communications, 2012, 48, 7286.	2.2	16
92	Toward mechanically robust and intrinsically stretchable organic solar cells: Evolution of photovoltaic properties with tensile strain. Solar Energy Materials and Solar Cells, 2012, 107, 355-365.	3.0	154
93	A simple droplet pinning method for polymer film deposition for measuring charge transport in a thin film transistor. Organic Electronics, 2012, 13, 2450-2460.	1.4	43
94	Improved Performance of Molecular Bulkâ€Heterojunction Photovoltaic Cells through Predictable Selection of Solvent Additives. Advanced Functional Materials, 2012, 22, 4801-4813.	7.8	149
95	Donorâ€“Acceptorâ€“Donor-based Ï€-Conjugated Oligomers for Nonlinear Optics and Near-IR Emission. Chemistry of Materials, 2011, 23, 3805-3817.	3.2	189
96	Self-Assembled Amphiphilic Diketopyrrolopyrrole-Based Oligothiophenes for Field-Effect Transistors and Solar Cells. Chemistry of Materials, 2011, 23, 2285-2288.	3.2	80
97	n-Type Conjugated Polyisoindigos. Macromolecules, 2011, 44, 6303-6310.	2.2	156
98	Siloxane-Terminated Solubilizing Side Chains: Bringing Conjugated Polymer Backbones Closer and Boosting Hole Mobilities in Thin-Film Transistors. Journal of the American Chemical Society, 2011, 133, 20130-20133.	6.6	628
99	Polydimethylsiloxane as a Macromolecular Additive for Enhanced Performance of Molecular Bulk Heterojunction Organic Solar Cells. ACS Applied Materials & Interfaces, 2011, 3, 1210-1215.	4.0	108
100	Broadly Absorbing Black to Transmissive Switching Electrochromic Polymers. Advanced Materials, 2010, 22, 4949-4953.	11.1	158
101	Synthesis of Isoindigo-Based Oligothiophenes for Molecular Bulk Heterojunction Solar Cells. Organic Letters, 2010, 12, 660-663.	2.4	431
102	Isoindigo-Based Donorâˆ’Acceptor Conjugated Polymers. Macromolecules, 2010, 43, 8348-8352.	2.2	193
103	Regioregular Electroactive Polyolefins with Precisely Sequenced Ï€-Conjugated Chromophores. Macromolecules, 2010, 43, 5909-5913.	2.2	13
104	Low-Band-Gap Platinum Acetylide Polymers as Active Materials for Organic Solar Cells. ACS Applied Materials & Interfaces, 2009, 1, 150-161.	4.0	135
105	A Facile Approach to Defect-Free Vinylene-Linked Benzothiadiazoleâˆ’Thiophene Low-Bandgap Conjugated Polymers for Organic Electronics. Macromolecules, 2009, 42, 1482-1487.	2.2	66
106	Modified (NHC)Pd(allyl)Cl (NHC =N-Heterocyclic Carbene) Complexes for Room-Temperature Suzukiâˆ’Miyaura and Buchwaldâˆ’Hartwig Reactions. Journal of the American Chemical Society, 2006, 128, 4101-4111.	6.6	844
107	Rapid Room Temperature Buchwaldâ€“Hartwig and Suzukiâ€“Miyaura Couplings of Heteroaromatic Compounds Employing Low Catalyst Loadings. Chemistry - A European Journal, 2006, 12, 5142-5148.	1.7	314
108	Impact of openâ€shell loading on mass transport and doping in conjugated radical polymers. Journal of Polymer Science, 0, , .	2.0	4