

# Jianguo Mei

## List of Publications by Year in descending order

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108  
papers

14,541  
citations

36303

51  
h-index

29157

104  
g-index

114  
all docs

114  
docs citations

114  
times ranked

17762  
citing authors

#	ARTICLE	IF	CITATIONS
1	Flexible polymer transistors with high pressure sensitivity for application in electronic skin and health monitoring. <i>Nature Communications</i> , 2013, 4, 1859.	12.8	1,713
2	Integrated Materials Design of Organic Semiconductors for Field-Effect Transistors. <i>Journal of the American Chemical Society</i> , 2013, 135, 6724-6746.	13.7	1,280
3	Semiconducting polymer nanoparticles as photoacoustic molecular imaging probes in living mice. <i>Nature Nanotechnology</i> , 2014, 9, 233-239.	31.5	1,057
4	Side Chain Engineering in Solution-Processable Conjugated Polymers. <i>Chemistry of Materials</i> , 2014, 26, 604-615.	6.7	932
5	Modified (NHC)Pd(allyl)Cl (NHC =N-Heterocyclic Carbene) Complexes for Room-Temperature Suzuki-Miyaura and Buchwald-Hartwig Reactions. <i>Journal of the American Chemical Society</i> , 2006, 128, 4101-4111.	13.7	844
6	A chameleon-inspired stretchable electronic skin with interactive colour changing controlled by tactile sensing. <i>Nature Communications</i> , 2015, 6, 8011.	12.8	749
7	Siloxane-Terminated Solubilizing Side Chains: Bringing Conjugated Polymer Backbones Closer and Boosting Hole Mobilities in Thin-Film Transistors. <i>Journal of the American Chemical Society</i> , 2011, 133, 20130-20133.	13.7	628
8	Synthesis of Isoindigo-Based Oligothiophenes for Molecular Bulk Heterojunction Solar Cells. <i>Organic Letters</i> , 2010, 12, 660-663.	4.6	431
9	Hierarchical N-Doped Carbon as CO <sub>2</sub> Adsorbent with High CO <sub>2</sub> Selectivity from Rationally Designed Polypyrrole Precursor. <i>Journal of the American Chemical Society</i> , 2016, 138, 1001-1009.	13.7	405
10	Highly stable organic polymer field-effect transistor sensor for selective detection in the marine environment. <i>Nature Communications</i> , 2014, 5, 2954.	12.8	362
11	High Performance All-Polymer Solar Cell via Polymer Side-Chain Engineering. <i>Advanced Materials</i> , 2014, 26, 3767-3772.	21.0	320
12	Isoindigo, a Versatile Electron-Deficient Unit For High-Performance Organic Electronics. <i>Chemistry of Materials</i> , 2014, 26, 664-678.	6.7	319
13	Rapid Room Temperature Buchwald-Hartwig and Suzuki-Miyaura Couplings of Heteroaromatic Compounds Employing Low Catalyst Loadings. <i>Chemistry - A European Journal</i> , 2006, 12, 5142-5148.	3.3	314
14	Diketopyrrolopyrrole-Based Semiconducting Polymer Nanoparticles for In Vivo Photoacoustic Imaging. <i>Advanced Materials</i> , 2015, 27, 5184-5190.	21.0	305
15	Isoindigo-Based Donor-Acceptor Conjugated Polymers. <i>Macromolecules</i> , 2010, 43, 8348-8352.	4.8	193
16	Donor-Acceptor-Donor-based $\pi$ -Conjugated Oligomers for Nonlinear Optics and Near-IR Emission. <i>Chemistry of Materials</i> , 2011, 23, 3805-3817.	6.7	189
17	Broadly Absorbing Black to Transmissive Switching Electrochromic Polymers. <i>Advanced Materials</i> , 2010, 22, 4949-4953.	21.0	158
18	n-Type Conjugated Polyisoindigos. <i>Macromolecules</i> , 2011, 44, 6303-6310.	4.8	156

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19	Toward mechanically robust and intrinsically stretchable organic solar cells: Evolution of photovoltaic properties with tensile strain. <i>Solar Energy Materials and Solar Cells</i> , 2012, 107, 355-365.	6.2	154
20	Improved Performance of Molecular Bulk Heterojunction Photovoltaic Cells through Predictable Selection of Solvent Additives. <i>Advanced Functional Materials</i> , 2012, 22, 4801-4813.	14.9	149
21	Semiconducting polymer blends that exhibit stable charge transport at high temperatures. <i>Science</i> , 2018, 362, 1131-1134.	12.6	147
22	Semiconducting Polymer Nanoparticles for Centimeter-Deep Photoacoustic Imaging in the Second Near-Infrared Window. <i>Advanced Materials</i> , 2017, 29, 1703403.	21.0	136
23	Solution-processable electrochromic materials and devices: roadblocks and strategies towards large-scale applications. <i>Journal of Materials Chemistry C</i> , 2019, 7, 12761-12789.	5.5	136
24	Low-Band-Gap Platinum Acetylide Polymers as Active Materials for Organic Solar Cells. <i>ACS Applied Materials &amp; Interfaces</i> , 2009, 1, 150-161.	8.0	135
25	Highly mobile charge-transfer excitons in two-dimensional WS <sub>2</sub> /tetracene heterostructures. <i>Science Advances</i> , 2018, 4, eaao3104.	10.3	132
26	Solution-Processed Nanoporous Organic Semiconductor Thin Films: Toward Health and Environmental Monitoring of Volatile Markers. <i>Advanced Functional Materials</i> , 2017, 27, 1701117.	14.9	127
27	Influence of dopant size and electron affinity on the electrical conductivity and thermoelectric properties of a series of conjugated polymers. <i>Journal of Materials Chemistry A</i> , 2018, 6, 16495-16505.	10.3	112
28	Polydimethylsiloxane as a Macromolecular Additive for Enhanced Performance of Molecular Bulk Heterojunction Organic Solar Cells. <i>ACS Applied Materials &amp; Interfaces</i> , 2011, 3, 1210-1215.	8.0	108
29	Conjugation-Break Spacers in Semiconducting Polymers: Impact on Polymer Processability and Charge Transport Properties. <i>Macromolecules</i> , 2015, 48, 2048-2053.	4.8	106
30	Tuning conformation, assembly, and charge transport properties of conjugated polymers by printing flow. <i>Science Advances</i> , 2019, 5, eaaw7757.	10.3	105
31	A Rapid and Facile Soft Contact Lamination Method: Evaluation of Polymer Semiconductors for Stretchable Transistors. <i>Chemistry of Materials</i> , 2014, 26, 4544-4551.	6.7	101
32	Multifunctional Conjugated Ligand Engineering for Stable and Efficient Perovskite Solar Cells. <i>Advanced Materials</i> , 2021, 33, e2100791.	21.0	99
33	Thiolene Cross-Linked Polymer Gate Dielectrics for Low-Voltage Organic Thin-Film Transistors. <i>Chemistry of Materials</i> , 2013, 25, 4806-4812.	6.7	89
34	Scalable and Selective Dispersion of Semiconducting Arc-Discharged Carbon Nanotubes by Dithiafulvalene/Thiophene Copolymers for Thin Film Transistors. <i>ACS Nano</i> , 2013, 7, 2659-2668.	14.6	88
35	Effect of Broken Conjugation on the Stretchability of Semiconducting Polymers. <i>Macromolecular Rapid Communications</i> , 2016, 37, 1623-1628.	3.9	87
36	Melt-Processing of Complementary Semiconducting Polymer Blends for High Performance Organic Transistors. <i>Advanced Materials</i> , 2017, 29, 1605056.	21.0	82

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37	Self-Assembled Amphiphilic Diketopyrrolopyrrole-Based Oligothiophenes for Field-Effect Transistors and Solar Cells. <i>Chemistry of Materials</i> , 2011, 23, 2285-2288.	6.7	80
38	Effect of Spacer Length of Siloxane-Terminated Side Chains on Charge Transport in Isoindigo-Based Polymer Semiconductor Thin Films. <i>Advanced Functional Materials</i> , 2015, 25, 3455-3462.	14.9	79
39	Dynamic-template-directed multiscale assembly for large-area coating of highly-aligned conjugated polymer thin films. <i>Nature Communications</i> , 2017, 8, 16070.	12.8	78
40	Comparison of the Photovoltaic Characteristics and Nanostructure of Fullerenes Blended with Conjugated Polymers with Siloxane-Terminated and Branched Aliphatic Side Chains. <i>Chemistry of Materials</i> , 2013, 25, 431-440.	6.7	74
41	A Facile Approach to Defect-Free Vinylene-Linked Benzothiadiazole-Thiophene Low-Bandgap Conjugated Polymers for Organic Electronics. <i>Macromolecules</i> , 2009, 42, 1482-1487.	4.8	66
42	Significance of the double-layer capacitor effect in polar rubbery dielectrics and exceptionally stable low-voltage high transconductance organic transistors. <i>Scientific Reports</i> , 2015, 5, 17849.	3.3	66
43	n-type charge transport in heavily p-doped polymers. <i>Nature Materials</i> , 2021, 20, 518-524.	27.5	66
44	Impact of Backbone Rigidity on the Thermomechanical Properties of Semiconducting Polymers with Conjugation Break Spacers. <i>Macromolecules</i> , 2020, 53, 6032-6042.	4.8	63
45	Critical Role of Surface Energy in Guiding Crystallization of Solution-Coated Conjugated Polymer Thin Films. <i>Langmuir</i> , 2018, 34, 1109-1122.	3.5	62
46	Complementary Semiconducting Polymer Blends: The Influence of Conjugation-Break Spacer Length in Matrix Polymers. <i>Macromolecules</i> , 2016, 49, 2601-2608.	4.8	61
47	Catalytic Azoarene Synthesis from Aryl Azides Enabled by a Dinuclear Ni Complex. <i>Journal of the American Chemical Society</i> , 2018, 140, 4110-4118.	13.7	61
48	Symmetry Breaking in Side Chains Leading to Mixed Orientations and Improved Charge Transport in Isoindigo-Bithiophene Based Polymer Thin Films. <i>ACS Applied Materials &amp; Interfaces</i> , 2017, 9, 25426-25433.	8.0	58
49	Complementary Semiconducting Polymer Blends for Efficient Charge Transport. <i>Chemistry of Materials</i> , 2015, 27, 7164-7170.	6.7	57
50	Sequentially solution-processed, nanostructured polymer photovoltaics using selective solvents. <i>Energy and Environmental Science</i> , 2014, 7, 1103.	30.8	56
51	Heterocyclic Building Blocks for Organic Semiconductors. <i>Advances in Heterocyclic Chemistry</i> , 2017, 121, 133-171.	1.7	54
52	Combinatorial Study of Temperature-Dependent Nanostructure and Electrical Conduction of Polymer Semiconductors: Even Bimodal Orientation Can Enhance 3D Charge Transport. <i>Advanced Functional Materials</i> , 2016, 26, 4627-4634.	14.9	51
53	Mechanical breathing in organic electrochromics. <i>Nature Communications</i> , 2020, 11, 211.	12.8	44
54	A simple droplet pinning method for polymer film deposition for measuring charge transport in a thin film transistor. <i>Organic Electronics</i> , 2012, 13, 2450-2460.	2.6	43

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55	An ultra-narrow bandgap derived from thienoisindigo polymers: structural influence on reducing the bandgap and self-organization. <i>Polymer Chemistry</i> , 2016, 7, 1181-1190.	3.9	42
56	Understanding Interfacial Alignment in Solution Coated Conjugated Polymer Thin Films. <i>ACS Applied Materials &amp; Interfaces</i> , 2017, 9, 27863-27874.	8.0	42
57	Low-Temperature Thermally Annealed Niobium Oxide Thin Films as a Minimally Color Changing Ion Storage Layer in Solution-Processed Polymer Electrochromic Devices. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 4169-4177.	8.0	42
58	Bioinspired Dynamic Camouflage from Colloidal Nanocrystals Embedded Electrochromics. <i>Nano Letters</i> , 2021, 21, 4500-4507.	9.1	40
59	Continuous Melt-Drawing of Highly Aligned Flexible and Stretchable Semiconducting Microfibers for Organic Electronics. <i>Advanced Functional Materials</i> , 2018, 28, 1705584.	14.9	39
60	Highly Transparent Crosslinkable Radical Copolymer Thin Film as the Ion Storage Layer in Organic Electrochromic Devices. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 18956-18963.	8.0	37
61	Designing $\pi$ -conjugated polymer blends with improved thermoelectric power factors. <i>Journal of Materials Chemistry A</i> , 2019, 7, 19774-19785.	10.3	34
62	Functionalized NIR-II Semiconducting Polymer Nanoparticles for Single-cell to Whole-Organ Imaging of PSMA-Positive Prostate Cancer. <i>Small</i> , 2020, 16, e2001215.	10.0	34
63	Amine- $\pi$ -boranes bearing borane-incompatible functionalities: application to selective amine protection and surface functionalization. <i>Chemical Communications</i> , 2016, 52, 11885-11888.	4.1	32
64	Neural Stimulation In-Vitro and In-Vivo by Photoacoustic Nanotransducers. <i>Matter</i> , 2021, 4, 654-674.	10.0	32
65	Stabilizing Hybrid Electrochromic Devices through Pairing Electrochromic Polymers with Minimally Color-Changing Ion-Storage Materials Having Closely Matched Electroactive Voltage Windows. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 5312-5318.	8.0	28
66	Polyimide-Based High-Temperature Plastic Electronics. , 2019, 1, 154-157.		27
67	Challenge and Solution of Characterizing Glass Transition Temperature for Conjugated Polymers by Differential Scanning Calorimetry. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2019, 57, 1635-1644.	2.1	27
68	Self-Bleaching Behaviors in Black-to-Transmissive Electrochromic Polymer Thin Films. <i>ACS Applied Materials &amp; Interfaces</i> , 2017, 9, 34122-34130.	8.0	25
69	Designing Donor-Acceptor Copolymers for Stable and High-Performance Organic Electrochemical Transistors. <i>ACS Macro Letters</i> , 2021, 10, 1061-1067.	4.8	24
70	Complementary Semiconducting Polymer Blends: Influence of Side Chains of Matrix Polymers. <i>Macromolecules</i> , 2017, 50, 6202-6209.	4.8	23
71	Conjugated electrochromic polymers with amide-containing side chains enabling aqueous electrolyte compatibility. <i>Polymer Chemistry</i> , 2020, 11, 508-516.	3.9	23
72	Catalytic Synthesis of Conjugated Azopolymers from Aromatic Diazides. <i>Journal of the American Chemical Society</i> , 2021, 143, 3975-3982.	13.7	23

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73	Attaining Melt Processing of Complementary Semiconducting Polymer Blends at 130 °C via Side-Chain Engineering. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 4904-4909.	8.0	22
74	Impact of the Crystallite Orientation Distribution on Exciton Transport in Donor-Acceptor Conjugated Polymers. <i>ACS Applied Materials &amp; Interfaces</i> , 2015, 7, 28035-28041.	8.0	20
75	Tunable green electrochromic polymers via direct arylation polymerization. <i>Polymer Chemistry</i> , 2018, 9, 5262-5267.	3.9	20
76	Effects of Side Chain on High Temperature Operation Stability of Conjugated Polymers. <i>ACS Applied Polymer Materials</i> , 2020, 2, 91-97.	4.4	19
77	Ambient Oxygen-Doped Conjugated Polymer for pH-Activatable Aggregation-Enhanced Photoacoustic Imaging in the Second Near-Infrared Window. <i>Analytical Chemistry</i> , 2021, 93, 3189-3195.	6.5	18
78	Printing dynamic color palettes and layered textures through modeling-guided stacking of electrochromic polymers. <i>Materials Horizons</i> , 2022, 9, 425-432.	12.2	18
79	Polymer Electrochromism Driven by Metabolic Activity Facilitates Rapid and Facile Bacterial Detection and Susceptibility Evaluation. <i>Advanced Functional Materials</i> , 2020, 30, 2005192.	14.9	17
80	5,11-Conjugation-extended low-bandgap anthradithiophene-containing polymer exhibiting enhanced thin-film order and field-effect mobility. <i>Chemical Communications</i> , 2012, 48, 7286.	4.1	16
81	Electrochromic Properties of Perovskite NdNiO <sub>3</sub> Thin Films for Smart Windows. <i>ACS Applied Electronic Materials</i> , 2021, 3, 1719-1731.	4.3	16
82	Device Engineering in Organic Electrochemical Transistors toward Multifunctional Applications. <i>ACS Applied Electronic Materials</i> , 2021, 3, 2434-2448.	4.3	16
83	Side-Chain Sequence Enabled Regioisomeric Acceptors for Conjugated Polymers. <i>Macromolecules</i> , 2018, 51, 8486-8492.	4.8	15
84	Bis-indigos: New Electron-Deficient Building Blocks for Constructing Conjugated Polymers with Extended Electron Delocalization. <i>Asian Journal of Organic Chemistry</i> , 2018, 7, 2248-2253.	2.7	15
85	Improving Electrochemical Cycling Stability of Conjugated Yellow-to-Transmissive Electrochromic Polymers by Regulating Effective Overpotentials. , 2022, 4, 336-342.		15
86	Direct arylation polymerization of asymmetric push-pull aryl halides. <i>Polymer Chemistry</i> , 2017, 8, 2438-2441.	3.9	14
87	Regioregular Electroactive Polyolefins with Precisely Sequenced $\pi$ -Conjugated Chromophores. <i>Macromolecules</i> , 2010, 43, 5909-5913.	4.8	13
88	Isoindigo-Based Binary Polymer Blends for Solution-Processing of Semiconducting Nanofiber Networks. <i>ACS Applied Polymer Materials</i> , 2019, 1, 1778-1786.	4.4	13
89	In Situ Measurement of Breathing Strain and Mechanical Degradation in Organic Electrochromic Polymers. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 50889-50895.	8.0	12
90	Preparative Mass Spectrometry Using a Rotating-Wall Mass Analyzer. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 7711-7716.	13.8	11

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91	Evolution of Chain Dynamics and Oxidation States with Increasing Chain Length for a Donor-acceptor-Conjugated Oligomer Series. <i>Macromolecules</i> , 2021, 54, 8207-8219.	4.8	11
92	Radical Polymer-Based Organic Electrochemical Transistors. <i>ACS Macro Letters</i> , 2022, 11, 243-250.	4.8	11
93	Zone-Annealing-Assisted Solvent-Free Processing of Complementary Semiconducting Polymer Blends for Organic Field-Effect Transistors. <i>Advanced Electronic Materials</i> , 2018, 4, 1700414.	5.1	9
94	N-Type Complementary Semiconducting Polymer Blends. <i>ACS Applied Polymer Materials</i> , 2020, 2, 2644-2650.	4.4	9
95	Thermally Stable and Solvent-Resistant Conductive Polymer Composites with Cross-Linked Siloxane Network. <i>ACS Applied Polymer Materials</i> , 2021, 3, 1537-1543.	4.4	9
96	n-Type Organic Field-Effect Transistors Based on Bisthienoisatin Derivatives. <i>ACS Applied Electronic Materials</i> , 2019, 1, 764-771.	4.3	8
97	Organic Cation Engineering for Vertical Charge Transport in Lead-Free Perovskite Quantum Wells. <i>Small Science</i> , 2021, 1, 2000024.	9.9	8
98	Oxidation Pathways Involving a Sulfide-Endcapped Donor-acceptor-Donor- $\pi$ -Conjugated Molecule and Antimony(V) Chloride. <i>Journal of Physical Chemistry B</i> , 2019, 123, 3866-3874.	2.6	7
99	Backbone flexibility on conjugated polymer's crystallization behavior and thin film mechanical stability. <i>Journal of Polymer Science</i> , 2022, 60, 548-558.	3.8	7
100	OFETs: BASIC CONCEPTS AND MATERIAL DESIGNS. <i>Materials and Energy</i> , 2016, , 19-83.	0.1	5
101	What's next for semiconducting polymers. <i>Journal of Polymer Science</i> , 2022, 60, 287-289.	3.8	5
102	Tetracyanocyclopentadienide-Based Stable Poly(aromatic) Anions. <i>ACS Macro Letters</i> , 2022, 11, 72-77.	4.8	5
103	Contact Effect in High-Temperature Conjugated Polymer Transistors. <i>ACS Applied Electronic Materials</i> , 2020, 2, 2454-2460.	4.3	4
104	Impact of open-shell loading on mass transport and doping in conjugated radical polymers. <i>Journal of Polymer Science</i> , 0, , .	3.8	4
105	High Temperature Organic Electronics. <i>MRS Advances</i> , 2020, 5, 505-513.	0.9	3
106	Doping kinetics in organic mixed ionic-electronic conductors: Moving front experiments and the stress effect. <i>Extreme Mechanics Letters</i> , 2022, 54, 101739.	4.1	3
107	Preparative Mass Spectrometry Using a Rotating-Wall Mass Analyzer. <i>Angewandte Chemie</i> , 2020, 132, 7785-7790.	2.0	1
108	Thin Films: Solution-Processed Nanoporous Organic Semiconductor Thin Films: Toward Health and Environmental Monitoring of Volatile Markers ( <i>Adv. Funct. Mater.</i> 23/2017). <i>Advanced Functional Materials</i> , 2017, 27, .	14.9	0