

Lei Fang

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

76 papers	2,600 citations	28 h-index	49 g-index
84 ext. papers	3,194 ext. citations	9.9 avg, IF	5.25 L-index

#	Paper	IF	Citations
76	Photopolymerized superhydrophobic hybrid coating enabled by dual-purpose tetrapodal ZnO for liquid/liquid separation. <i>Materials Horizons</i> , 2021 ,	14.4	2
75	Synthesis and Photocyclization of Conjugated Diselenophene Pyrrole-2,5-dione Based Monomers for Optoelectronics. <i>Macromolecules</i> , 2021 , 54, 665-672	5.5	3
74	Controlling Ultra-Large Optical Asymmetry in Amorphous Molecular Aggregations. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 3672-3678	16.4	6
73	Controlling Ultra-Large Optical Asymmetry in Amorphous Molecular Aggregations. <i>Angewandte Chemie</i> , 2021 , 133, 3716-3722	3.6	2
72	Electron-Deficient Polycyclic System Fused with Multiple B<-N Coordinate Bonds. <i>Journal of Organic Chemistry</i> , 2021 , 86, 2100-2106	4.2	5
71	Quinoidal conjugated polymers with open-shell character. <i>Polymer Chemistry</i> , 2021 , 12, 1347-1361	4.9	13
70	Solution-processable porous graphitic carbon from bottom-up synthesis and low-temperature graphitization. <i>Chemical Science</i> , 2021 , 12, 8438-8444	9.4	3
69	Phototunable Lignin Plastics to Enable Recyclability. <i>ChemSusChem</i> , 2021 , 14, 4260-4269	8.3	2
68	TEMPO Containing Radical Polymonothiocarbonate Polymers with Regio- and Stereo-Regularities: Synthesis, Characterization, and Electrical Conductivity Studies. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 20734-20738	16.4	0
67	TEMPO Containing Radical Polymonothiocarbonate Polymers with Regio- and Stereo-Regularities: Synthesis, Characterization, and Electrical Conductivity Studies. <i>Angewandte Chemie</i> , 2021 , 133, 20902-20906	3.6	0
66	Feasible fabrication and textile application of polymer composites featuring dual optical thermoresponses. <i>Chemical Engineering Journal</i> , 2021 , 419, 129553	14.7	4
65	Robust Jumping Actuator with a Shrimp-Shell Architecture. <i>Advanced Materials</i> , 2021 , 33, e2104558	24	9
64	Electrical vapour sensing with macrocyclic molecular receptors. <i>Supramolecular Chemistry</i> , 2020 , 32, 165-187	18.7	5
63	Solution-Processable Porous Nanoparticles of a Conjugated Ladder Polymer Network. <i>Macromolecules</i> , 2020 , 53, 922-928	5.5	3
62	Augmented polyhydrazone formation in water by template-assisted polymerization using dual-purpose supramolecular templates. <i>Polymer Chemistry</i> , 2020 , 11, 1806-1819	4.9	4
61	High-Performance Thermoresponsive Dual-Output Dye System for Smart Textile Application. <i>Advanced Functional Materials</i> , 2020 , 30, 1906463	15.6	16
60	Aromatic porous polymer network membranes for organic solvent nanofiltration under extreme conditions. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 15891-15899	13	18

59	Pauli Paramagnetism of Stable Analogues of Pernigraniline Salt Featuring Ladder-Type Constitution. <i>Journal of the American Chemical Society</i> , 2020 , 142, 641-648	16.4	12
58	Rigid Ladder-Type Porous Polymer Networks for Entropically Favorable Gas Adsorption 2020 , 2, 49-54		16
57	Porous Ladder Polymer Networks. <i>CheM</i> , 2020 , 6, 2558-2590	16.2	10
56	Palladium bis-pincer complexes with controlled rigidity and inter-metal distance. <i>Inorganic Chemistry Frontiers</i> , 2020 , 7, 4357-4366	6.8	2
55	Extraordinary electrochemical stability and extended polaron delocalization of ladder-type polyaniline-analogous polymers. <i>Chemical Science</i> , 2020 , 11, 12737-12745	9.4	16
54	Discovery of Potent Charge-Reducing Molecules for Native Ion Mobility Mass Spectrometry Studies. <i>Analytical Chemistry</i> , 2020 , 92, 11242-11249	7.8	11
53	Cyclodextrin-derived polymer networks for selective molecular adsorption. <i>Chemical Communications</i> , 2020 , 56, 11783-11786	5.8	4
52	Poly-Lipoic Ester-Based Coacervates for the Efficient Removal of Organic Pollutants from Water and Increased Point-of-Use Versatility. <i>Chemistry of Materials</i> , 2019 , 31, 4405-4417	9.6	12
51	Covalent and Noncovalent Approaches to Rigid Coplanar π -Conjugated Molecules and Macromolecules. <i>Accounts of Chemical Research</i> , 2019 , 52, 1089-1100	24.3	46
50	Synthesis, characterization and crystal structures of novel fluorinated di(thiazolyl)benzene derivatives. <i>Organic Chemistry Frontiers</i> , 2019 , 6, 780-790	5.2	7
49	Indacenodithiazole-Ladder-Type Bridged Di(thiophene)-Difluoro-Benzothiadiazole-Conjugated Copolymers as Ambipolar Organic Field-Effect Transistors. <i>Chemistry of Materials</i> , 2019 , 31, 9488-9496	9.6	13
48	Mesoporous silica nanobeans dual-functionalized with AIEgens and leaning pillar[6]arene-based supramolecular switches for imaging and stimuli-responsive drug release. <i>Chemical Communications</i> , 2019 , 55, 14099-14102	5.8	27
47	Annulation Reactions for Conjugated Ladder-Type Oligomers. <i>Synlett</i> , 2018 , 29, 993-998	2.2	9
46	Donor-Acceptor conjugated ladder polymer via aromatization-driven thermodynamic annulation. <i>Polymer Chemistry</i> , 2018 , 9, 1603-1609	4.9	20
45	Cost-effective synthesis and solution processing of porous polymer networks through methanesulfonic acid-mediated aldol triple condensation. <i>Materials Chemistry Frontiers</i> , 2018 , 2, 396-401	7.8	15
44	Solution-printable fullerene/TiS ₂ organic/inorganic hybrids for high-performance flexible n-type thermoelectrics. <i>Energy and Environmental Science</i> , 2018 , 11, 1307-1317	35.4	124
43	Locking the Coplanar Conformation of π -Conjugated Molecules and Macromolecules Using Dynamic Noncovalent Bonds. <i>Macromolecular Rapid Communications</i> , 2018 , 39, 1700241	4.8	39
42	Synthesis and Solution Processing of a Rigid Polymer Enabled by Active Manipulation of Intramolecular Hydrogen Bonds. <i>ACS Macro Letters</i> , 2018 , 7, 801-806	6.6	11

41	Chalcogen Bridged Thieno- and Selenopheno[2,3-d:5,4-d']bisthiazole and Their Diketopyrrolopyrrole Based Low-Bandgap Copolymers. <i>Macromolecules</i> , 2018 , 51, 6076-6084	5.5	9
40	Assembly and Chiral Memory Effects of Dynamic Macroscopic Supramolecular Helices. <i>Chemistry - A European Journal</i> , 2018 , 24, 16553-16557	4.8	11
39	Desymmetrized Leaning Pillar[6]arene. <i>Angewandte Chemie - International Edition</i> , 2018 , 57, 9853-9858	16.4	94
38	Desymmetrized Leaning Pillar[6]arene. <i>Angewandte Chemie</i> , 2018 , 130, 10001-10006	3.6	28
37	Fullerene-Tailored Graphene Oxide Interlayer Spacing for Energy-Efficient Water Desalination. <i>ACS Applied Nano Materials</i> , 2018 , 1, 6168-6175	5.6	12
36	Extraordinary Redox Activities in Ladder-Type Conjugated Molecules Enabled by B <- N Coordination-Promoted Delocalization and Hyperconjugation. <i>Journal of the American Chemical Society</i> , 2018 , 140, 18173-18182	16.4	34
35	Exceptional thermoelectric properties of flexible organic-inorganic hybrids with monodispersed and periodic nanophase. <i>Nature Communications</i> , 2018 , 9, 3817	17.4	107
34	Bis-Bipyridinium Gemini Surfactant-Based Supramolecular Helical Fibers and Solid State Thermochromism. <i>Chemistry - A European Journal</i> , 2018 , 24, 16558-16569	4.8	12
33	Synthesis of low band gap polymers based on pyrrolo[3,2-d:4,5-d']bisthiazole (PBTz) and thienylenevinylene (TV) for organic thin-film transistors (OTFTs). <i>Journal of Materials Chemistry C</i> , 2017 , 5, 2247-2258	7.1	19
32	Synthesis and Solution Processing of a Hydrogen-Bonded Ladder Polymer. <i>Chem</i> , 2017 , 2, 139-152	16.2	33
31	Fully conjugated ladder polymers. <i>Chemical Science</i> , 2017 , 8, 2503-2521	9.4	123
30	Mapping the electrocatalytic activity of MoS ₂ across its amorphous to crystalline transition. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 5129-5141	13	28
29	Scalable Synthesis and Multi-Electron Transfer of Aniline/Fluorene Copolymer for Solution-Processable Battery Cathodes. <i>Macromolecular Rapid Communications</i> , 2017 , 38, 1700067	4.8	7
28	Extended Ladder-Type Benzo[k]tetrathene-Derived Oligomers. <i>Angewandte Chemie</i> , 2017 , 129, 13915-13919	13.1	6
27	Extended Ladder-Type Benzo[k]tetrathene-Derived Oligomers. <i>Angewandte Chemie - International Edition</i> , 2017 , 56, 13727-13731	16.4	28
26	Exciton Relaxation in Highly Rigid Conjugated Polymers: Correlating Radiative Dynamics with Structural Heterogeneity and Wavefunction Delocalization. <i>ACS Energy Letters</i> , 2017 , 2, 2096-2102	20.1	10
25	Tunable Thermochromism of Multifunctional Charge-Transfer-Based Supramolecular Materials Assembled in Water. <i>Chemistry of Materials</i> , 2017 , 29, 9937-9945	9.6	37
24	Versatile Thermochromic Supramolecular Materials Based on Competing Charge Transfer Interactions. <i>Advanced Functional Materials</i> , 2016 , 26, 8604-8612	15.6	36

23	Thermodynamic synthesis of solution processable ladder polymers. <i>Chemical Science</i> , 2016 , 7, 881-889	9.4	50
22	A side-chain engineering approach to solvent-resistant semiconducting polymer thin films. <i>Polymer Chemistry</i> , 2016 , 7, 648-655	4.9	30
21	Molecular Coplanarity and Self-Assembly Promoted by Intramolecular Hydrogen Bonds. <i>Organic Letters</i> , 2016 , 18, 6332-6335	6.2	34
20	Thermochromic Materials: Versatile Thermochromic Supramolecular Materials Based on Competing Charge Transfer Interactions (Adv. Funct. Mater. 47/2016). <i>Advanced Functional Materials</i> , 2016 , 26, 8566-8566 ¹	15.6	1
19	Low Band Gap Coplanar Conjugated Molecules Featuring Dynamic Intramolecular Lewis Acid-Base Coordination. <i>Journal of Organic Chemistry</i> , 2016 , 81, 4347-52	4.2	55
18	Confined organization of fullerene units along high polymer chains. <i>Journal of Materials Chemistry C</i> , 2013 , 1, 5747	7.1	15
17	Scalable and selective dispersion of semiconducting arc-discharged carbon nanotubes by dithiafulvalene/thiophene copolymers for thin film transistors. <i>ACS Nano</i> , 2013 , 7, 2659-68	16.7	79
16	Solvent-dependent ground-state distributions in a donor-acceptor redox-active bistable [2]catenane. <i>Journal of Physical Organic Chemistry</i> , 2012 , 25, 544-552	2.1	15
15	Dual stimulus switching of a [2]catenane in water. <i>Angewandte Chemie - International Edition</i> , 2011 , 50, 1805-9	16.4	51
14	Measurement of the ground-state distributions in bistable mechanically interlocked molecules using slow scan rate cyclic voltammetry. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011 , 108, 20416-21	11.5	26
13	Polycatenation under thermodynamic control. <i>Angewandte Chemie - International Edition</i> , 2010 , 49, 3151-5	16.4	34
12	A catenated strut in a catenated metal-organic framework. <i>Angewandte Chemie - International Edition</i> , 2010 , 49, 6751-5	16.4	96
11	A bistable poly[2]catenane forms nanosuperstructures. <i>Angewandte Chemie - International Edition</i> , 2009 , 48, 1792-7	16.4	63
10	Dynamic hook-and-eye nanoparticle sponges. <i>Nature Chemistry</i> , 2009 , 1, 733-8	17.6	104
9	Active molecular plasmonics: controlling plasmon resonances with molecular switches. <i>Nano Letters</i> , 2009 , 9, 819-25	11.5	191
8	A mechanical actuator driven electrochemically by artificial molecular muscles. <i>ACS Nano</i> , 2009 , 3, 291-300	16.7	220
7	Assembly of polygonal nanoparticle clusters directed by reversible noncovalent bonding interactions. <i>Nano Letters</i> , 2009 , 9, 3185-90	11.5	73
6	Thermodynamic forecasting of mechanically interlocked switches. <i>Organic and Biomolecular Chemistry</i> , 2009 , 7, 4391-405	3.9	31

- 5 An acid-base-controllable [c2]daisy chain. *Angewandte Chemie - International Edition*, **2008**, 47, 7470-4 16.4 179
- 4 Cholic-acid-based fluorescent sensor for dicarboxylates and acidic amino acids in aqueous solutions. *Organic Letters*, **2005**, 7, 5825-8 6.2 118
- 3 Variable-Temperature Scattering and Spectroscopy Characterizations for Temperature-Dependent Solution Assembly of PffBT4T-Based Conjugated Polymers. *ACS Applied Polymer Materials*, 4.3 4
- 2 How rigid are conjugated non-ladder and ladder polymers?. *Journal of Polymer Science*, 2.4 3
- 1 Multiscale Textured Mesh Substrates that Glide Alcohol Droplets and Impede Ice Nucleation. *Advanced Engineering Materials*, 2101524 3.5