Lei Fang

List of Publications by Year
in descending order

82 papers	3,629 citations	126907 33 h-index	138484 58 g-index
84 all docs	84 docs citations	84 times ranked	4682 citing authors

#	Article	IF	Citations
1	Oxygen-vacancy-rich phenanthroline/TiO2 nanocomposites: An integrated adsorption, detection and photocatalytic material for complex pollutants remediation. Chinese Chemical Letters, 2022, 33, 907-911.	9.0	12
2	Highly Efficient Water Splitting Catalyst Composed of N,P-Doped Porous Carbon Decorated with Surface P-Enriched Ni₂P Nanoparticles. ACS Applied Materials & Interfaces, 2022, 14, 20358-20367.	8.0	18
3	How rigid are conjugated nonâ€ladder and ladder polymers?. Journal of Polymer Science, 2022, 60, 298-310.	3.8	23
4	Photopolymerized superhydrophobic hybrid coating enabled by dual-purpose tetrapodal ZnO for liquid/liquid separation. Materials Horizons, 2022, 9, 452-461.	12.2	12
5	Variable-Temperature Scattering and Spectroscopy Characterizations for Temperature-Dependent Solution Assembly of PffBT4T-Based Conjugated Polymers. ACS Applied Polymer Materials, 2022, 4, 3023-3033.	4.4	14
6	Multiscale Textured Mesh Substrates that Glide Alcohol Droplets and Impede Ice Nucleation. Advanced Engineering Materials, 2022, 24, .	3.5	1
7	Robust chain aggregation of low-entropy rigid ladder polymers in solution. Journal of Materials Chemistry C, 2022, 10, 13896-13904.	5.5	4
8	Hydrogen-Bond-Promoted Planar Conformation, Crystallinity, and Charge Transport in Semiconducting Diazaisoindigo Derivatives. , 2022, 4, 1270-1278.		5
9	Synthesis and Photocyclization of Conjugated Diselenophene Pyrrole-2,5-dione Based Monomers for Optoelectronics. Macromolecules, 2021, 54, 665-672.	4.8	14
10	Controlling Ultraâ€Large Optical Asymmetry in Amorphous Molecular Aggregations. Angewandte Chemie - International Edition, 2021, 60, 3672-3678.	13.8	18
11	Controlling Ultraâ€Large Optical Asymmetry in Amorphous Molecular Aggregations. Angewandte Chemie, 2021, 133, 3716-3722.	2.0	9
12	Electron-Deficient Polycyclic Ï€-System Fused with Multiple Bâ†N Coordinate Bonds. Journal of Organic Chemistry, 2021, 86, 2100-2106.	3.2	18
13	Design, synthesis and characterization of fused bithiazole- and dithiophene-based low bandgap thienylenevinylene copolymers. Polymer Chemistry, 2021, 12, 5942-5951.	3.9	6
14	Quinoidal conjugated polymers with open-shell character. Polymer Chemistry, 2021, 12, 1347-1361.	3.9	38
15	Solution-processable porous graphitic carbon from bottom-up synthesis and low-temperature graphitization. Chemical Science, 2021, 12, 8438-8444.	7.4	19
16	Phototunable Lignin Plastics to Enable Recyclability. ChemSusChem, 2021, 14, 4260-4269.	6.8	13
17	TEMPO Containing Radical Polymonothiocarbonate Polymers with Regioâ€and Stereoâ€Regularities: Synthesis, Characterization, and Electrical Conductivity Studies. Angewandte Chemie - International Edition, 2021, 60, 20734-20738.	13.8	6
18	TEMPO Containing Radical Polymonothiocarbonate Polymers with Regioâ€and Stereoâ€Regularities: Synthesis, Characterization, and Electrical Conductivity Studies. Angewandte Chemie, 2021, 133, 20902-20906.	2.0	0

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19	Feasible fabrication and textile application of polymer composites featuring dual optical thermoresponses. Chemical Engineering Journal, 2021, 419, 129553.	12.7	8
20	Robust Jumping Actuator with a Shrimpâ€Shell Architecture. Advanced Materials, 2021, 33, e2104558.	21.0	40
21	Highâ€Performance Thermoresponsive Dualâ€Output Dye System for Smart Textile Application. Advanced Functional Materials, 2020, 30, 1906463.	14.9	33
22	Aromatic porous polymer network membranes for organic solvent nanofiltration under extreme conditions. Journal of Materials Chemistry A, 2020, 8, 15891-15899.	10.3	37
23	Pauli Paramagnetism of Stable Analogues of Pernigraniline Salt Featuring Ladder-Type Constitution. Journal of the American Chemical Society, 2020, 142, 641-648.	13.7	23
24	Rigid Ladder-Type Porous Polymer Networks for Entropically Favorable Gas Adsorption. , 2020, 2, 49-54.		30
25	Porous Ladder Polymer Networks. CheM, 2020, 6, 2558-2590.	11.7	36
26	Palladium bis-pincer complexes with controlled rigidity and inter-metal distance. Inorganic Chemistry Frontiers, 2020, 7, 4357-4366.	6.0	6
27	Extraordinary electrochemical stability and extended polaron delocalization of ladder-type polyaniline-analogous polymers. Chemical Science, 2020, 11, 12737-12745.	7.4	38
28	Discovery of Potent Charge-Reducing Molecules for Native Ion Mobility Mass Spectrometry Studies. Analytical Chemistry, 2020, 92, 11242-11249.	6.5	21
29	Cyclodextrin-derived polymer networks for selective molecular adsorption. Chemical Communications, 2020, 56, 11783-11786.	4.1	13
30	Electrical vapour sensing with macrocyclic molecular receptors. Supramolecular Chemistry, 2020, 32, 165-177.	1.2	7
31	Solution-Processable Porous Nanoparticles of a Conjugated Ladder Polymer Network. Macromolecules, 2020, 53, 922-928.	4.8	11
32	Augmented polyhydrazone formation in water by template-assisted polymerization using dual-purpose supramolecular templates. Polymer Chemistry, 2020, 11, 1806-1819.	3.9	7
33	Indacenodithiazole-Ladder-Type Bridged Di(thiophene)-Difluoro-Benzothiadiazole-Conjugated Copolymers as Ambipolar Organic Field-Effect Transistors. Chemistry of Materials, 2019, 31, 9488-9496.	6.7	25
34	Poly-Lipoic Ester-Based Coacervates for the Efficient Removal of Organic Pollutants from Water and Increased Point-of-Use Versatility. Chemistry of Materials, 2019, 31, 4405-4417.	6.7	16
35	Covalent and Noncovalent Approaches to Rigid Coplanar Ï€-Conjugated Molecules and Macromolecules. Accounts of Chemical Research, 2019, 52, 1089-1100.	15.6	80
36	Synthesis, characterization and crystal structures of novel fluorinated di(thiazolyl)benzene derivatives. Organic Chemistry Frontiers, 2019, 6, 780-790.	4.5	10

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37	Mesoporous silica nanobeans dual-functionalized with AIEgens and leaning pillar[6]arene-based supramolecular switches for imaging and stimuli-responsive drug release. Chemical Communications, 2019, 55, 14099-14102.	4.1	36
38	Annulation Reactions for Conjugated Ladder-Type Oligomers. Synlett, 2018, 29, 993-998.	1.8	9
39	Donorâ€“acceptor conjugated ladder polymer via aromatization-driven thermodynamic annulation. Polymer Chemistry, 2018, 9, 1603-1609.	3.9	36
40	Cost-effective synthesis and solution processing of porous polymer networks through methanesulfonic acid-mediated aldol triple condensation. Materials Chemistry Frontiers, 2018, 2, 396-401.	5.9	23
41	Solution-printable fullerene/TiS₂ organic/inorganic hybrids for high-performance flexible n-type thermoelectrics. Energy and Environmental Science, 2018, 11, 1307-1317.	30.8	172
42	Locking the Coplanar Conformation of Ï€â€Conjugated Molecules and Macromolecules Using Dynamic Noncovalent Bonds. Macromolecular Rapid Communications, 2018, 39, 1700241.	3.9	61
43	Fullerene-Tailored Graphene Oxide Interlayer Spacing for Energy-Efficient Water Desalination. ACS Applied Nano Materials, 2018, 1, 6168-6175.	5.0	23
44	Extraordinary Redox Activities in Ladder-Type Conjugated Molecules Enabled by B â†•N Coordination-Promoted Delocalization and Hyperconjugation. Journal of the American Chemical Society, 2018, 140, 18173-18182.	13.7	63
45	Exceptional thermoelectric properties of flexible organicâ^'inorganic hybrids with monodispersed and periodic nanophase. Nature Communications, 2018, 9, 3817.	12.8	183
46	Bisâ€Bipyridinium Gemini Surfactantâ€Based Supramolecular Helical Fibers and Solid State Thermochromism. Chemistry - A European Journal, 2018, 24, 16558-16569.	3.3	15
47	Synthesis and Solution Processing of a Rigid Polymer Enabled by Active Manipulation of Intramolecular Hydrogen Bonds. ACS Macro Letters, 2018, 7, 801-806.	4.8	15
48	Chalcogen Bridged Thieno- and Selenopheno[2,3-d:5,4-dâ€²]bisthiazole and Their Diketopyrrolopyrrole Based Low-Bandgap Copolymers. Macromolecules, 2018, 51, 6076-6084.	4.8	16
49	Novel low band gap polymers based on pyrrolo[32d:45dâ€™]bisthiazole PBTz and thienylenevinylene TV For Organic Electronic Applications. , 2018, , .		0
50	Assembly and Chiral Memory Effects of Dynamic Macroscopic Supramolecular Helices. Chemistry - A European Journal, 2018, 24, 16553-16557.	3.3	20
51	Desymmetrized Leaning Pillar[6]arene. Angewandte Chemie - International Edition, 2018, 57, 9853-9858.	13.8	131
52	Desymmetrized Leaning Pillar[6]arene. Angewandte Chemie, 2018, 130, 10001-10006.	2.0	38
53	Synthesis of low band gap polymers based on pyrrolo[3,2-d:4,5-dâ€²]bisthiazole (PBTz) and thienylenevinylene (TV) for organic thin-film transistors (OTFTs). Journal of Materials Chemistry C, 2017, 5, 2247-2258.	5.5	23
54	Synthesis and Solution Processing of a Hydrogen-Bonded Ladder Polymer. CheM, 2017, 2, 139-152.	11.7	50

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55	Fully conjugated ladder polymers. Chemical Science, 2017, 8, 2503-2521.	7.4	184
56	Mapping the electrocatalytic activity of MoS₂ across its amorphous to crystalline transition. Journal of Materials Chemistry A, 2017, 5, 5129-5141.	10.3	41
57	Scalable Synthesis and Multiâ€Electron Transfer of Aniline/Fluorene Copolymer for Solutionâ€Processable Battery Cathodes. Macromolecular Rapid Communications, 2017, 38, 1700067.	3.9	9
58	Extended Ladderâ€Type Benzo[k]tetrapheneâ€Derived Oligomers. Angewandte Chemie - International Edition, 2017, 56, 13727-13731.	13.8	46
59	Exciton Relaxation in Highly Rigid Conjugated Polymers: Correlating Radiative Dynamics with Structural Heterogeneity and Wavefunction Delocalization. ACS Energy Letters, 2017, 2, 2096-2102.	17.4	20
60	Tunable Thermochromism of Multifunctional Charge-Transfer-Based Supramolecular Materials Assembled in Water. Chemistry of Materials, 2017, 29, 9937-9945.	6.7	46
61	Extended Ladderâ€Type Benzo[k]tetrapheneâ€Derived Oligomers. Angewandte Chemie, 2017, 129, 13915-13919.	2.0	13
62	Molecular Coplanarity and Self-Assembly Promoted by Intramolecular Hydrogen Bonds. Organic Letters, 2016, 18, 6332-6335.	4.6	39
63	Thermochromic Materials: Versatile Thermochromic Supramolecular Materials Based on Competing Charge Transfer Interactions (Adv. Funct. Mater. 47/2016). Advanced Functional Materials, 2016, 26, 8566-8566.	14.9	1
64	Low Band Gap Coplanar Conjugated Molecules Featuring Dynamic Intramolecular Lewis Acidâ€“Base Coordination. Journal of Organic Chemistry, 2016, 81, 4347-4352.	3.2	73
65	Versatile Thermochromic Supramolecular Materials Based on Competing Charge Transfer Interactions. Advanced Functional Materials, 2016, 26, 8604-8612.	14.9	44
66	Thermodynamic synthesis of solution processable ladder polymers. Chemical Science, 2016, 7, 881-889.	7.4	70
67	A side-chain engineering approach to solvent-resistant semiconducting polymer thin films. Polymer Chemistry, 2016, 7, 648-655.	3.9	36
68	Confined organization of fullerene units along high polymer chains. Journal of Materials Chemistry C, 2013, 1, 5747.	5.5	16
69	Scalable and Selective Dispersion of Semiconducting Arc-Discharged Carbon Nanotubes by Dithiafulvalene/Thiophene Copolymers for Thin Film Transistors. ACS Nano, 2013, 7, 2659-2668.	14.6	88
70	Solventâ€dependent groundâ€state distributions in a donorâ€“acceptor redoxâ€active bistable [2]catenane. Journal of Physical Organic Chemistry, 2012, 25, 544-552.	1.9	15
71	Dual Stimulus Switching of a [2]Catenane in Water. Angewandte Chemie - International Edition, 2011, 50, 1805-1809.	13.8	53
72	Measurement of the ground-state distributions in bistable mechanically interlocked molecules using slow scan rate cyclic voltammetry. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 20416-20421.	7.1	30

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73	Polycatenation under Thermodynamic Control. Angewandte Chemie - International Edition, 2010, 49, 3151-3156.	13.8	38
74	A Catenated Strut in a Catenated Metalâ€“Organic Framework. Angewandte Chemie - International Edition, 2010, 49, 6751-6755.	13.8	103
75	A Bistable Poly[2]catenane Forms Nanosuperstructures. Angewandte Chemie - International Edition, 2009, 48, 1792-1797.	13.8	71
76	Dynamic hook-and-eye nanoparticle sponges. Nature Chemistry, 2009, 1, 733-738.	13.6	114
77	Active Molecular Plasmonics: Controlling Plasmon Resonances with Molecular Switches. Nano Letters, 2009, 9, 819-825.	9.1	213
78	A Mechanical Actuator Driven Electrochemically by Artificial Molecular Muscles. ACS Nano, 2009, 3, 291-300.	14.6	241
79	Assembly of Polygonal Nanoparticle Clusters Directed by Reversible Noncovalent Bonding Interactions. Nano Letters, 2009, 9, 3185-3190.	9.1	82
80	Thermodynamic forecasting of mechanically interlocked switches. Organic and Biomolecular Chemistry, 2009, 7, 4391.	2.8	35
81	An Acidâ€“Baseâ€€Controllable [c2]Daisy Chain. Angewandte Chemie - International Edition, 2008, 47, 7470-7474.	13.8	201
82	Cholic-Acid-Based Fluorescent Sensor for Dicarboxylates and Acidic Amino Acids in Aqueous Solutions. Organic Letters, 2005, 7, 5825-5828.	4.6	122