

Lei Fang

List of Publications by Year in descending order

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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	A Mechanical Actuator Driven Electrochemically by Artificial Molecular Muscles. ACS Nano, 2009, 3, 291-300.	14.6	241
2	Active Molecular Plasmonics: Controlling Plasmon Resonances with Molecular Switches. Nano Letters, 2009, 9, 819-825.	9.1	213
3	An Acid-Base-Controllable [c2]Daisy Chain. Angewandte Chemie - International Edition, 2008, 47, 7470-7474.	13.8	201
4	Fully conjugated ladder polymers. Chemical Science, 2017, 8, 2503-2521.	7.4	184
5	Exceptional thermoelectric properties of flexible organic-inorganic hybrids with monodispersed and periodic nanophase. Nature Communications, 2018, 9, 3817.	12.8	183
6	Solution-printable fullerene/TiS ₂ organic/inorganic hybrids for high-performance flexible n-type thermoelectrics. Energy and Environmental Science, 2018, 11, 1307-1317.	30.8	172
7	Desymmetrized Leaning Pillar[6]arene. Angewandte Chemie - International Edition, 2018, 57, 9853-9858.	13.8	131
8	Cholic-Acid-Based Fluorescent Sensor for Dicarboxylates and Acidic Amino Acids in Aqueous Solutions. Organic Letters, 2005, 7, 5825-5828.	4.6	122
9	Dynamic hook-and-eye nanoparticle sponges. Nature Chemistry, 2009, 1, 733-738.	13.6	114
10	A Catenated Strut in a Catenated Metal-Organic Framework. Angewandte Chemie - International Edition, 2010, 49, 6751-6755.	13.8	103
11	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
12	Assembly of Polygonal Nanoparticle Clusters Directed by Reversible Noncovalent Bonding Interactions. Nano Letters, 2009, 9, 3185-3190.	9.1	82
13	Covalent and Noncovalent Approaches to Rigid Coplanar π -Conjugated Molecules and Macromolecules. Accounts of Chemical Research, 2019, 52, 1089-1100.	15.6	80
14	Low Band Gap Coplanar Conjugated Molecules Featuring Dynamic Intramolecular Lewis Acid-Base Coordination. Journal of Organic Chemistry, 2016, 81, 4347-4352.	3.2	73
15	A Bistable Poly[2]catenane Forms Nanosuperstructures. Angewandte Chemie - International Edition, 2009, 48, 1792-1797.	13.8	71
16	Thermodynamic synthesis of solution processable ladder polymers. Chemical Science, 2016, 7, 881-889.	7.4	70
17	Extraordinary Redox Activities in Ladder-Type Conjugated Molecules Enabled by B \cdot N Coordination-Promoted Delocalization and Hyperconjugation. Journal of the American Chemical Society, 2018, 140, 18173-18182.	13.7	63
18	Locking the Coplanar Conformation of π -Conjugated Molecules and Macromolecules Using Dynamic Noncovalent Bonds. Macromolecular Rapid Communications, 2018, 39, 1700241.	3.9	61

#	ARTICLE	IF	CITATIONS
19	Dual Stimulus Switching of a [2]Catenane in Water. <i>Angewandte Chemie - International Edition</i> , 2011, 50, 1805-1809.	13.8	53
20	Synthesis and Solution Processing of a Hydrogen-Bonded Ladder Polymer. <i>CheM</i> , 2017, 2, 139-152.	11.7	50
21	Extended Ladder-Type Benzo[<i>k</i>]tetraphene-Derived Oligomers. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 13727-13731.	13.8	46
22	Tunable Thermochromism of Multifunctional Charge-Transfer-Based Supramolecular Materials Assembled in Water. <i>Chemistry of Materials</i> , 2017, 29, 9937-9945.	6.7	46
23	Versatile Thermochromic Supramolecular Materials Based on Competing Charge Transfer Interactions. <i>Advanced Functional Materials</i> , 2016, 26, 8604-8612.	14.9	44
24	Mapping the electrocatalytic activity of MoS ₂ across its amorphous to crystalline transition. <i>Journal of Materials Chemistry A</i> , 2017, 5, 5129-5141.	10.3	41
25	Robust Jumping Actuator with a Shrimp-Shell Architecture. <i>Advanced Materials</i> , 2021, 33, e2104558.	21.0	40
26	Molecular Coplanarity and Self-Assembly Promoted by Intramolecular Hydrogen Bonds. <i>Organic Letters</i> , 2016, 18, 6332-6335.	4.6	39
27	Polycatenation under Thermodynamic Control. <i>Angewandte Chemie - International Edition</i> , 2010, 49, 3151-3156.	13.8	38
28	Desymmetrized Leaning Pillar[6]arene. <i>Angewandte Chemie</i> , 2018, 130, 10001-10006.	2.0	38
29	Extraordinary electrochemical stability and extended polaron delocalization of ladder-type polyaniline-analogous polymers. <i>Chemical Science</i> , 2020, 11, 12737-12745.	7.4	38
30	Quinoidal conjugated polymers with open-shell character. <i>Polymer Chemistry</i> , 2021, 12, 1347-1361.	3.9	38
31	Aromatic porous polymer network membranes for organic solvent nanofiltration under extreme conditions. <i>Journal of Materials Chemistry A</i> , 2020, 8, 15891-15899.	10.3	37
32	A side-chain engineering approach to solvent-resistant semiconducting polymer thin films. <i>Polymer Chemistry</i> , 2016, 7, 648-655.	3.9	36
33	Donor-acceptor conjugated ladder polymer via aromatization-driven thermodynamic annulation. <i>Polymer Chemistry</i> , 2018, 9, 1603-1609.	3.9	36
34	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.	4.1	36
35	Porous Ladder Polymer Networks. <i>CheM</i> , 2020, 6, 2558-2590.	11.7	36
36	Thermodynamic forecasting of mechanically interlocked switches. <i>Organic and Biomolecular Chemistry</i> , 2009, 7, 4391.	2.8	35

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37	High-Performance Thermoresponsive Dual-Output Dye System for Smart Textile Application. <i>Advanced Functional Materials</i> , 2020, 30, 1906463.	14.9	33
38	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, 20416-20421.	7.1	30
39	Rigid Ladder-Type Porous Polymer Networks for Entropically Favorable Gas Adsorption. , 2020, 2, 49-54.		30
40	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.	6.7	25
41	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.	5.5	23
42	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.	5.9	23
43	Fullerene-Tailored Graphene Oxide Interlayer Spacing for Energy-Efficient Water Desalination. <i>ACS Applied Nano Materials</i> , 2018, 1, 6168-6175.	5.0	23
44	Pauli Paramagnetism of Stable Analogues of Pernigraniline Salt Featuring Ladder-Type Constitution. <i>Journal of the American Chemical Society</i> , 2020, 142, 641-648.	13.7	23
45	How rigid are conjugated non-ladder and ladder polymers?. <i>Journal of Polymer Science</i> , 2022, 60, 298-310.	3.8	23
46	Discovery of Potent Charge-Reducing Molecules for Native Ion Mobility Mass Spectrometry Studies. <i>Analytical Chemistry</i> , 2020, 92, 11242-11249.	6.5	21
47	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.	17.4	20
48	Assembly and Chiral Memory Effects of Dynamic Macroscopic Supramolecular Helices. <i>Chemistry - A European Journal</i> , 2018, 24, 16553-16557.	3.3	20
49	Solution-processable porous graphitic carbon from bottom-up synthesis and low-temperature graphitization. <i>Chemical Science</i> , 2021, 12, 8438-8444.	7.4	19
50	Controlling Ultra-Large Optical Asymmetry in Amorphous Molecular Aggregations. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 3672-3678.	13.8	18
51	Electron-Deficient Polycyclic π -System Fused with Multiple β -N Coordinate Bonds. <i>Journal of Organic Chemistry</i> , 2021, 86, 2100-2106.	3.2	18
52	Highly Efficient Water Splitting Catalyst Composed of N,P-Doped Porous Carbon Decorated with Surface P-Enriched Ni ₂ P Nanoparticles. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 20358-20367.	8.0	18
53	Confined organization of fullerene units along high polymer chains. <i>Journal of Materials Chemistry C</i> , 2013, 1, 5747.	5.5	16
54	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.	4.8	16

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55	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.	6.7	16
56	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.	1.9	15
57	Bis-Bipyridinium Gemini Surfactant-Based Supramolecular Helical Fibers and Solid State Thermochromism. <i>Chemistry - A European Journal</i> , 2018, 24, 16558-16569.	3.3	15
58	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.	4.8	15
59	Synthesis and Photocyclization of Conjugated Diselenophene Pyrrole-2,5-dione Based Monomers for Optoelectronics. <i>Macromolecules</i> , 2021, 54, 665-672.	4.8	14
60	Variable-Temperature Scattering and Spectroscopy Characterizations for Temperature-Dependent Solution Assembly of PffBT4T-Based Conjugated Polymers. <i>ACS Applied Polymer Materials</i> , 2022, 4, 3023-3033.	4.4	14
61	Extended Ladder-Type Benzo[<i>k</i>]tetraphene-Derived Oligomers. <i>Angewandte Chemie</i> , 2017, 129, 13915-13919.	2.0	13
62	Cyclodextrin-derived polymer networks for selective molecular adsorption. <i>Chemical Communications</i> , 2020, 56, 11783-11786.	4.1	13
63	Phototunable Lignin Plastics to Enable Recyclability. <i>ChemSusChem</i> , 2021, 14, 4260-4269.	6.8	13
64	Oxygen-vacancy-rich phenanthroline/TiO ₂ nanocomposites: An integrated adsorption, detection and photocatalytic material for complex pollutants remediation. <i>Chinese Chemical Letters</i> , 2022, 33, 907-911.	9.0	12
65	Photopolymerized superhydrophobic hybrid coating enabled by dual-purpose tetrapodal ZnO for liquid/liquid separation. <i>Materials Horizons</i> , 2022, 9, 452-461.	12.2	12
66	Solution-Processable Porous Nanoparticles of a Conjugated Ladder Polymer Network. <i>Macromolecules</i> , 2020, 53, 922-928.	4.8	11
67	Synthesis, characterization and crystal structures of novel fluorinated di(thiazolyl)benzene derivatives. <i>Organic Chemistry Frontiers</i> , 2019, 6, 780-790.	4.5	10
68	Scalable Synthesis and Multi-Electron Transfer of Aniline/Fluorene Copolymer for Solution-Processable Battery Cathodes. <i>Macromolecular Rapid Communications</i> , 2017, 38, 1700067.	3.9	9
69	Annulation Reactions for Conjugated Ladder-Type Oligomers. <i>Synlett</i> , 2018, 29, 993-998.	1.8	9
70	Controlling Ultra-Large Optical Asymmetry in Amorphous Molecular Aggregations. <i>Angewandte Chemie</i> , 2021, 133, 3716-3722.	2.0	9
71	Feasible fabrication and textile application of polymer composites featuring dual optical thermoresponses. <i>Chemical Engineering Journal</i> , 2021, 419, 129553.	12.7	8
72	Electrical vapour sensing with macrocyclic molecular receptors. <i>Supramolecular Chemistry</i> , 2020, 32, 165-177.	1.2	7

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73	Augmented polyhydrazone formation in water by template-assisted polymerization using dual-purpose supramolecular templates. <i>Polymer Chemistry</i> , 2020, 11, 1806-1819.	3.9	7
74	Palladium bis-pincer complexes with controlled rigidity and inter-metal distance. <i>Inorganic Chemistry Frontiers</i> , 2020, 7, 4357-4366.	6.0	6
75	Design, synthesis and characterization of fused bithiazole- and dithiophene-based low bandgap thienylenevinylene copolymers. <i>Polymer Chemistry</i> , 2021, 12, 5942-5951.	3.9	6
76	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.	13.8	6
77	Hydrogen-Bond-Promoted Planar Conformation, Crystallinity, and Charge Transport in Semiconducting Diazaisoindigo Derivatives. , 2022, 4, 1270-1278.		5
78	Robust chain aggregation of low-entropy rigid ladder polymers in solution. <i>Journal of Materials Chemistry C</i> , 2022, 10, 13896-13904.	5.5	4
79	Thermochromic Materials: Versatile Thermochromic Supramolecular Materials Based on Competing Charge Transfer Interactions (<i>Adv. Funct. Mater.</i> 47/2016). <i>Advanced Functional Materials</i> , 2016, 26, 8566-8566.	14.9	1
80	Multiscale Textured Mesh Substrates that Glide Alcohol Droplets and Impede Ice Nucleation. <i>Advanced Engineering Materials</i> , 2022, 24, .	3.5	1
81	Novel low band gap polymers based on pyrrolo[3,2-d:4,5-d']bisthiazole PBTz and thienylenevinylene TV For Organic Electronic Applications. , 2018, , .		0
82	TEMPO Containing Radical Polymonothiocarbonate Polymers with Regio- and Stereo-regularities: Synthesis, Characterization, and Electrical Conductivity Studies. <i>Angewandte Chemie</i> , 2021, 133, 20902-20906.	2.0	0