

Jian-Cheng Lai

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.

32
papers

1,535
citations

19
h-index

34
g-index

34
ext. papers

2,077
ext. citations

10.5
avg, IF

4.69
L-index

#	Paper	IF	Citations
32	Reprocessable and Recyclable Polymer Network Electrolytes via Incorporation of Dynamic Covalent Bonds. <i>Chemistry of Materials</i> , 2022 , 34, 2393-2399	9.6	7
31	Topological supramolecular network enabled high-conductivity, stretchable organic bioelectronics.. <i>Science</i> , 2022 , 375, 1411-1417	33.3	29
30	High-brightness all-polymer stretchable LED with charge-trapping dilution.. <i>Nature</i> , 2022 , 603, 624-630	50.4	24
29	Steric Effect Tuned Ion Solvation Enabling Stable Cycling of High-Voltage Lithium Metal Battery. <i>Journal of the American Chemical Society</i> , 2021 , 143, 18703-18713	16.4	40
28	A Design Strategy for Intrinsically Stretchable High-Performance Polymer Semiconductors: Incorporating Conjugated Rigid Fused-Rings with Bulky Side Groups. <i>Journal of the American Chemical Society</i> , 2021 , 143, 11679-11689	16.4	16
27	A molecular design approach towards elastic and multifunctional polymer electronics. <i>Nature Communications</i> , 2021 , 12, 5701	17.4	14
26	High Energy Density Shape Memory Polymers Using Strain-Induced Supramolecular Nanostructures. <i>ACS Central Science</i> , 2021 , 7, 1657-1667	16.8	12
25	F4-TCNQ as an Additive to Impart Stretchable Semiconductors with High Mobility and Stability. <i>Advanced Electronic Materials</i> , 2020 , 6, 2000251	6.4	18
24	A Dielectric Elastomer Actuator That Can Self-Heal Integrally. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 44137-44146	9.5	16
23	A Self-Healing and Shape Memory Polymer that Functions at Body Temperature. <i>Molecules</i> , 2019 , 24,	4.8	28
22	New insights into the mechanical and self-healing properties of polymers cross-linked by Fe(III)-2,6-pyridinedicarboxamide coordination complexes. <i>Polymer Chemistry</i> , 2019 , 10, 362-371	4.9	13
21	Thermodynamically stable whilst kinetically labile coordination bonds lead to strong and tough self-healing polymers. <i>Nature Communications</i> , 2019 , 10, 1164	17.4	155
20	Bioinspired Ice Growth Inhibitors Based on Self-Assembling Peptides. <i>ACS Macro Letters</i> , 2019 , 8, 1383-1390	10	11
19	Distinct Mechanical and Self-Healing Properties in Two Polydimethylsiloxane Coordination Polymers with Fine-Tuned Bond Strength. <i>Inorganic Chemistry</i> , 2018 , 57, 3232-3242	5.1	37
18	A rigid and healable polymer cross-linked by weak but abundant Zn(II)-carboxylate interactions. <i>Nature Communications</i> , 2018 , 9, 2725	17.4	168
17	Self-healing improves the stability and safety of polymer bonded explosives. <i>Composites Science and Technology</i> , 2018 , 167, 346-354	8.6	23
16	An Elastic Autonomous Self-Healing Capacitive Sensor Based on a Dynamic Dual Crosslinked Chemical System. <i>Advanced Materials</i> , 2018 , 30, e1801435	24	185

15	A Highly Stretchable and Autonomous Self-Healing Polymer Based on Combination of Pt ^{II} and π - π Interactions. <i>Macromolecular Rapid Communications</i> , 2016 , 37, 1667-1675	4.8	142
14	A Stiff and Healable Polymer Based on Dynamic-Covalent Boroxine Bonds. <i>Advanced Materials</i> , 2016 , 28, 8277-8282	24	251
13	Novel redox responsive chiral cyclometalated platinum(II) complexes with pinene functionalized C ^N N ligands. <i>New Journal of Chemistry</i> , 2016 , 40, 2628-2636	3.6	9
12	A Highly Stretchable Polymer that Can Be Thermally Healed at Mild Temperature. <i>Macromolecular Rapid Communications</i> , 2016 , 37, 952-6	4.8	53
11	A novel photo-responsive europium(III) complex for advanced anti-counterfeiting and encryption. <i>Dalton Transactions</i> , 2016 , 45, 5451-4	4.3	22
10	Mechano-induced luminescent and chiroptical switching in chiral cyclometalated platinum(II) complexes. <i>Journal of Materials Chemistry C</i> , 2015 , 3, 2350-2357	7.1	70
9	Cu- and Ag-Based Metal-Organic Frameworks with 4-Pyranone-2,6-dicarboxylic Acid: Syntheses, Crystal Structures, and Dielectric Properties. <i>Crystal Growth and Design</i> , 2015 , 15, 1707-1713	3.5	19
8	Electrochromic properties of novel octa-pinene substituted double-decker Ln(III) (Ln = Eu, Er, Lu) phthalocyanines with distinctive near-IR absorption. <i>Journal of Materials Chemistry C</i> , 2015 , 3, 3072-3080	7.1	22
7	A self-healing PDMS polymer with solvatochromic properties. <i>Chemical Communications</i> , 2015 , 51, 8928-30	3.8	68
6	Diversity of Coordination Modes, Structures, and Properties of Chiral Metal-Organic Coordination Complexes of the Drug Voriconazole. <i>European Journal of Inorganic Chemistry</i> , 2015 , 2015, 5281-5290	2.3	7
5	Investigations on the polyimides derived from unfunctionalized symmetric cyclopentyl-containing alicyclic cardo-type dianhydride. <i>Journal of Applied Polymer Science</i> , 2015 , 132, n/a-n/a	2.9	8
4	A new multicolored and near-infrared electrochromic material based on triphenylamine-containing poly(3,4-dithienylpyrrole). <i>Organic Electronics</i> , 2014 , 15, 3735-3745	3.5	26
3	Comparative investigations on the effects of pendent trifluoromethyl group to the properties of the polyimides containing diphenyl-substituted cyclopentyl Cardo-structure. <i>Journal of Fluorine Chemistry</i> , 2014 , 164, 27-37	2.1	16
2	A new series of fluorinated alicyclic-functionalized polyimides derived from natural-(D)-camphor: Synthesis, structure-properties relationships and dynamic dielectric analyses. <i>Polymer</i> , 2013 , 54, 5673-5683	2.9	25
1	Topological supramolecular network enabled highly conductive and stretchable organic bioelectronics		1