Cheng-Hui Li

List of Publications by Year in Descending Order

91 papers	3,914 citations	30 h-index	61 g-index
96 ext. papers	4,696 ext. citations	6.8 avg, IF	5.68 L-index

#	Paper	IF	Citations
91	A combined strategy of room-temperature plasma activation and chemical treatment to toughen the interfacial adhesion of fluoropolymers. *Chemical Engineering Journal*, **2022**, 435, 135006	14.7	1
90	A silver-functionalized metal–organic framework with effective antibacterial activity. *New Journal of Chemistry*, **2022**, 46, 5922-5926	3.6	1
89	Efficient and Stable Wide-Bandgap Perovskite Solar Cells Derived from a Thermodynamic Phase-Pure Intermediate. *Solar Rrl*, **2022**, 6, 2100906	7.1	4
88	Universal Self-Healing Poly(dimethylsiloxane) Polymer Crosslinked Predominantly by Physical Entanglements. *ACS Applied Materials & Interfaces*, **2021**, 13, 31129-31139	9.5	9
87	Superstretchable, thermostable and ultrahigh-loading lithium–sulfur batteries based on nanostructural gel cathodes and gel electrolytes. *Nano Energy*, **2021**, 80, 105510	17.1	25
86	A Facile Synthetic Method and New Derivatives of Phthalorubines. *Acta Chimica Sinica*, **2021**, 79, 81	3.3	1
85	Coordination Strategy Driving the Formation of Compact CuSCN Hole-Transporting Layers for Efficient Perovskite Solar Cells. *Solar Rrl*, **2021**, 5, 2000777	7.1	2
84	A Fast and Room-temperature Self-healing Thermal Conductive Polymer Composite. *Chinese Journal of Polymer Science (English Edition)*, **2021**, 39, 1328-1336	3.5	4
83	A Tough and Self-Healing Polymer Enabled by Promoting Bond Exchange in Boronic Esters with Neighboring Hydroxyl Groups **2021**, 3, 1328-1338		7
82	Interfacial engineering of CuSCN-based perovskite solar cells via PMMA interlayer toward enhanced efficiency and stability. *New Journal of Chemistry*, **2021**, 45, 13168-13174	3.6	1
81	Improving the capacity and cycling-stability of Lithium–sulfur batteries using self-healing binders containing dynamic disulfide bonds. *Sustainable Energy and Fuels*, **2020**, 4, 2760-2767	5.8	15
80	A Self-Healing Polymer with Fast Elastic Recovery upon Stretching. *Molecules*, **2020**, 25,	4.8	6
79	Self-Healing Polymers Based on Coordination Bonds. *Advanced Materials*, **2020**, 32, e1903762	24	116
78	A Supramolecular Polymer Formed by Small Molecules. *Cell Reports Physical Science*, **2020**, 1, 100144	6.1	6
77	A Dielectric Elastomer Actuator That Can Self-Heal Integrally. *ACS Applied Materials & Interfaces*, **2020**, 12, 44137-44146	9.5	16
76	A Self-Healing and Shape Memory Polymer that Functions at Body Temperature. *Molecules*, **2019**, 24,	4.8	28
75	New insights into the mechanical and self-healing properties of polymers cross-linked by Fe(III)-2,6-pyridinedicarboxamide coordination complexes. *Polymer Chemistry*, **2019**, 10, 362-371	4.9	13

74	An ultrafast self-healing polydimethylsiloxane elastomer with persistent sealing performance. *Materials Chemistry Frontiers*, **2019**, 3, 1411-1421	7.8	21
73	Thermodynamically stable whilst kinetically labile coordination bonds lead to strong and tough self-healing polymers. *Nature Communications*, **2019**, 10, 1164	17.4	155
72	A Tough Metal-Coordinated Elastomer: A Fatigue-Resistant, Notch-Insensitive Material with an Excellent Self-Healing Capacity. *ChemPlusChem*, **2019**, 84, 432-440	2.8	11
71	Pinene-Functionalized Polysiloxane as an Excellent Self-Healing Superhydrophobic Polymer. *Macromolecular Chemistry and Physics*, **2019**, 220, 1900361	2.6	7
70	Disassociation and Reformation Under Strain in Polymer with Dynamic Metal□ligand Coordination Cross-Linking. *Macromolecules*, **2019**, 52, 660-668	5.5	29
69	Distinct Mechanical and Self-Healing Properties in Two Polydimethylsiloxane Coordination Polymers with Fine-Tuned Bond Strength. *Inorganic Chemistry*, **2018**, 57, 3232-3242	5.1	37
68	A rigid and healable polymer cross-linked by weak but abundant Zn(II)-carboxylate interactions. *Nature Communications*, **2018**, 9, 2725	17.4	168
67	Self-healing improves the stability and safety of polymer bonded explosives. *Composites Science and Technology*, **2018**, 167, 346-354	8.6	23
66	Increasing the breakdown strength of dielectric actuators by using Cu/CuxO/silicone dielectric elastomers. *Journal of Materials Chemistry C*, **2018**, 6, 12175-12179	7.1	13
65	Phthalorubines: Fused-Ring Compounds Synthesized from Phthalonitrile. *Angewandte Chemie - International Edition*, **2018**, 57, 15384-15389	16.4	6
64	Phthalorubines: Fused-Ring Compounds Synthesized from Phthalonitrile. *Angewandte Chemie*, **2018**, 130, 15610-15615	3.6	2
63	An Elastic Autonomous Self-Healing Capacitive Sensor Based on a Dynamic Dual Crosslinked Chemical System. *Advanced Materials*, **2018**, 30, e1801435	24	185
62	Three Properties in One Coordination Complex: Chirality, Spin Crossover, and Dielectric Switching. *European Journal of Inorganic Chemistry*, **2017**, 2017, 3144-3149	2.3	20
61	A Highly Stretchable and Autonomous Self-Healing Polymer Based on Combination of Pt□□Pt and □□Interactions. *Macromolecular Rapid Communications*, **2016**, 37, 1667-1675	4.8	142
60	A Stiff and Healable Polymer Based on Dynamic-Covalent Boroxine Bonds. *Advanced Materials*, **2016**, 28, 8277-8282	24	251
59	Enhancing magnetoresistance in tetrathiafulvalene carboxylate modified iron oxide nanoparticle assemblies. *Nanoscale*, **2016**, 8, 12128-33	7.7	9
58	Novel redox responsive chiral cyclometalated platinum(II) complexes with pinene functionalized C^N^N ligands. *New Journal of Chemistry*, **2016**, 40, 2628-2636	3.6	9
57	A Highly Stretchable Polymer that Can Be Thermally Healed at Mild Temperature. *Macromolecular Rapid Communications*, **2016**, 37, 952-6	4.8	53

56	Facile and environmentally friendly synthesis of ultrathin nickel hydroxide nanosheets with excellent supercapacitor performances. *Nanoscale*, **2016**, 8, 11797-802	7.7	39
55	A highly stretchable autonomous self-healing elastomer. *Nature Chemistry*, **2016**, 8, 618-24	17.6	858
54	Insight into selective removal of copper from high-concentration nickel solutions with XPS and DFT: New technique to prepare 5N-nickel with chelating resin. *Journal of Environmental Sciences*, **2016**, 48, 34-44	6.4	19
53	Mechano-induced luminescent and chiroptical switching in chiral cyclometalated platinum(II) complexes. *Journal of Materials Chemistry C*, **2015**, 3, 2350-2357	7.1	70
52	Electrochromic properties of novel octa-pinene substituted double-decker Ln(III) (Ln = Eu, Er, Lu) phthalocyanines with distinctive near-IR absorption. *Journal of Materials Chemistry C*, **2015**, 3, 3072-3080	7.1	22
51	A self-healing PDMS polymer with solvatochromic properties. *Chemical Communications*, **2015**, 51, 8928-30	6.8	68
50	A novel tetraethylenepentamine functionalized polymeric adsorbent for enhanced removal and selective recovery of heavy metal ions from saline solutions. *RSC Advances*, **2015**, 5, 75985-75997	3.7	15
49	Potential switchable circularly polarized luminescence from chiral cyclometalated platinum(II) complexes. *Inorganic Chemistry*, **2015**, 54, 143-52	5.1	79
48	Asymmetric Donor–Acceptor-Type Benzo-Fused Aza-BODIPYs: Facile Synthesis and Colorimetric Properties. *Angewandte Chemie*, **2015**, 127, 9198-9202	3.6	11
47	Asymmetric Donor–Acceptor-Type Benzo-Fused Aza-BODIPYs: Facile Synthesis and Colorimetric Properties. *Angewandte Chemie - International Edition*, **2015**, 54, 9070-4	16.4	30
46	Facile synthesis of phthalocyanine at low temperature with diisopropylamide anion as nucleophile. *Tetrahedron Letters*, **2015**, 56, 4459-4462	2	8
45	Tuning Electron-Conduction and Spin Transport in Magnetic Iron Oxide Nanoparticle Assemblies via Tetrathiafulvalene-Fused Ligands. *ACS Nano*, **2015**, 9, 12205-13	16.7	19
44	Dramatic improvement in photostability of luminescent Eu(III) complexes with tetraphenylimidodiphosphinate ligand. *Journal of Luminescence*, **2014**, 146, 544-549	3.8	9
43	A new multicolored and near-infrared electrochromic material based on triphenylamine-containing poly(3,4-dithienylpyrrole). *Organic Electronics*, **2014**, 15, 3735-3745	3.5	26
42	Vapor-induced chiroptical switching in chiral cyclometalated platinum(II) complexes with pinene functionalized C^N^N ligands. *Journal of Materials Chemistry C*, **2014**, 2, 184-194	7.1	31
41	Synthesis and characterization of a new series of nickel dithiolate compounds containing both acridinium cations and halogen anions. *Inorganica Chimica Acta*, **2014**, 410, 88-93	2.7	1
40	High efficient removal of Cu(II) by a chelating resin from strong acidic solutions: Complex formation and DFT certification. *Chemical Engineering Journal*, **2013**, 222, 240-247	14.7	54
39	Circular dichroism spectroscopy study of crystalline-to-amorphous transformation in chiral platinum(II) complexes. *Chirality*, **2013**, 25, 384-92	2.1	8

38	Synthesis and ferroelectric properties of platinum(II) complexes with chiral isoxazoline ligand. *Polyhedron*, **2013**, 60, 85-92	2.7	5
37	Triazine dyes as photosensitizers for dye-sensitized solar cells. *Tetrahedron*, **2013**, 69, 190-200	2.4	30
36	Iron(II) Complexes Based on Conjugated Terpyridine Ligands with Tetrathiafulvalene or Its Radical Analogue. *European Journal of Inorganic Chemistry*, **2013**, 2013, 6037-6048	2.3	21
35	VCD spectroscopy probing of weak intermolecular interactions between copper coordination compounds and N-blocked amino acids. *Vibrational Spectroscopy*, **2012**, 63, 451-459	2.1	4
34	Efficient blue emitters based on 1,3,5-triazine for nondoped organic light emitting diode applications. *Organic Electronics*, **2012**, 13, 2177-2184	3.5	10
33	Solvent-induced single-crystal-to-single-crystal transformation in multifunctional chiral dysprosium(III) compounds. *Inorganic Chemistry*, **2012**, 51, 8649-51	5.1	65
32	Improving spectral response of monocrystalline silicon photovoltaic modules using high efficient luminescent down-shifting Eu3+ complexes. *Progress in Photovoltaics: Research and Applications*, **2012**, 21, n/a-n/a	6.8	15
31	Vibrational and electronic circular dichroism monitoring of copper(II) coordination with a chiral ligand. *Chirality*, **2012**, 24, 451-8	2.1	24
30	Facile preparation of silicon hollow spheres and their use in electrochemical capacitive energy storage. *Chemical Communications*, **2012**, 48, 4950-2	5.8	63
29	Synthesis and photovoltaic performances of donor cceptor dyes utilizing 1,3,5-triazine as spacers. *Tetrahedron Letters*, **2011**, 52, 6492-6496	2	40
28	Low-temperature synthesis of Na2Mn5O10 for supercapacitor applications. *Journal of Power Sources*, **2011**, 196, 10502-10506	8.9	23
27	Synthesis, structure and magnetic properties of a two-dimensional manganese(II) complex with a maximum denticity of ethylenediaminetetraacetic ligand. *Inorganica Chimica Acta*, **2011**, 376, 112-117	2.7	8
26	Interaction mechanism of aqueous heavy metals onto a newly synthesized IDA-chelating resin: Isotherms, thermodynamics and kinetics. *Chemical Engineering Journal*, **2011**, 173, 106-114	14.7	58
25	Synthesis and properties of a Cu4(SCN)4 cubane cluster-based coordination polymer with a diamond net. *Inorganic Chemistry Communication*, **2011**, 14, 558-561	3.1	6
24	Distinct magnetic dynamic behavior for two polymorphs of the same Dy(III) complex. *Chemical Communications*, **2011**, 47, 6867-9	5.8	88
23	Coordination polymers based on the octamolybdate and flexible bis(triazole) ligands with different spacer lengths. *CrystEngComm*, **2011**, 13, 2350	3.3	51
22	Large low-field magnetoresistance in Fe3O4/molecule nanoparticles at room temperature. *Journal Physics D: Applied Physics*, **2011**, 44, 025001	3	16
21	Synthesis, structure and chiroptical study of chiral macrocyclic imine nickel(II) coordination compounds derived from camphor. *Dalton Transactions*, **2010**, 39, 3227-32	4.3	28

20	Syntheses, Structures, and Physical Properties of Camphorate Coordination Polymers Controlled by Semirigid Auxiliary Ligands with Variable Coordination Positions and Conformations. *Crystal Growth and Design*, **2010**, 10, 2596-2605	3.5	57
19	Novel Structural Diversity of Triazolate-Based Coordination Polymers Generated Solvothermally with Anions. *Crystal Growth and Design*, **2010**, 10, 2136-2145	3.5	38
18	Single-ion magnets based on mononuclear lanthanide complexes with chiral Schiff base ligands [Ln(FTA)3L] (Ln = Sm, Eu, Gd, Tb and Dy). *Chemical Communications*, **2010**, 46, 2929-31	5.8	220
17	Ionic ferroelectrics based on nickel schiff base complexes. *Inorganic Chemistry*, **2010**, 49, 1286-8	5.1	50
16	Homoleptic copper(I) phenylselenolate polymer as a single-source precursor for Cu2Se nanocrystals. Structure, photoluminescence and application in field-effect transistor. *Chemical Science*, **2010**, 1, 515	9.4	33
15	Syntheses, structures, and properties of tricarbonyl rhenium(I) heteronuclear complexes with the multidentate bridging ligand containing bis(2-pyridine) and carboxylic acid. *Inorganica Chimica Acta*, **2010**, 363, 3742-3749	2.7	4
14	Synthesis and Physical Properties of Two Chiral Terpyridyl Europium(III) Complexes with Distinct Crystal Polarity. *European Journal of Inorganic Chemistry*, **2009**, 2009, 4844-4849	2.3	38
13	Synthesis, structure and physical properties of the one-dimensional chain complex of tetrathiafulvalene carboxylate. *Science in China Series B: Chemistry*, **2009**, 52, 1596-1601		13
12	Synthesis and characterization of neutral iron(II) and ruthenium(II) complexes with the isocyanotriphenylborate ligand. *Dalton Transactions*, **2009**, 10256-62	4.3	8
11	A noncentrosymmetric 3D coordination polymer of metallocalix[4]arene. *Inorganic Chemistry*, **2008**, 47, 11514-8	5.1	25
10	Homoleptic copper(I) arylthiolates as a new class of p-type charge carriers: structures and charge mobility studies. *Chemistry - A European Journal*, **2008**, 14, 2965-75	4.8	32
9	Luminescent Gold(I) and Copper(I) Phosphane Complexes Containing the 4-Nitrophenylthiolate Ligand: Observation of □Charge-Transfer Emission. *European Journal of Inorganic Chemistry*, **2008**, 2008, 2421-2428	2.3	16
8	Synthesis and magnetic properties of a highly conducting neutral nickel complex with a highly conjugated tetrathiafulvalenedithiolate ligand. *Inorganic Chemistry*, **2007**, 46, 6837-9	5.1	36
7	Long-range superexchanged magnetic interaction observed in heterometallic complex: {[FeII(Tpms)(CN)3][MnII(H2O)2(DMF)2]}□DMF. *Inorganica Chimica Acta*, **2005**, 358, 4057-4061	2.7	9
6	Tris[bis[hydrotris(1-pyrazolyl)borato-kappa3N2,N2',N2"]iron(III)] hexaisothiocyanatoiron(III). *Acta Crystallographica Section C: Crystal Structure Communications*, **2004**, 60, m258-60		1
5	A Strong and Rigid Coordination Adaptable Network that can be Reprocessed and Recycled at Mild Conditions. *CCS Chemistry*,1-38	7.2	0
4	A Strong and Rigid Coordination Adaptable Network that Can Be Reprocessed and Recycled at Mild Conditions. *CCS Chemistry*,1-17	7.2	
3	A Fast Self-Healing Magnetic Nanocomposite for Magnetic Actuators. *Macromolecular Materials and Engineering*,2100649	3.9	2

2	A Puncture-Resistant and Self-Healing Conductive Gel for Multifunctional Electronic Skin. *Advanced Functional Materials*,2107006	15.6	9
1	An Underwater Long-Term Strong Adhesive Based on Boronic Esters with Enhanced Hydrolytic Stability. *Advanced Functional Materials*,2201959	15.6	2