Cheng-Hui Li

List of Publications by Year
in descending order

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95 papers	5,580 citations	109321 35 h-index	79698 73 g-index
96 all docs	96 docs citations	96 times ranked	6298 citing authors

#	Article	IF	Citations
1	A highly stretchable autonomous self-healing elastomer. Nature Chemistry, 2016, 8, 618-624.	13.6	1,133
2	A Stiff and Healable Polymer Based on Dynamicâ€Covalent Boroxine Bonds. Advanced Materials, 2016, 28, 8277-8282.	21.0	349
3	Selfâ€Healing Polymers Based on Coordination Bonds. Advanced Materials, 2020, 32, e1903762.	21.0	343
4	An Elastic Autonomous Selfâ€Healing Capacitive Sensor Based on a Dynamic Dual Crosslinked Chemical System. Advanced Materials, 2018, 30, e1801435.	21.0	280
5	Thermodynamically stable whilst kinetically labile coordination bonds lead to strong and tough self-healing polymers. Nature Communications, 2019, 10, 1164.	12.8	258
6	A rigid and healable polymer cross-linked by weak but abundant Zn(II)-carboxylate interactions. Nature Communications, 2018, 9, 2725.	12.8	242
7	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.	4.1	233
8	A Highly Stretchable and Autonomous Selfâ€Healing Polymer Based on Combination of PtÂ·Â·Â·Pt and Ï€â€“Ï€ Interactions. Macromolecular Rapid Communications, 2016, 37, 1667-1675.	3.9	199
9	Potential Switchable Circularly Polarized Luminescence from Chiral Cyclometalated Platinum(II) Complexes. Inorganic Chemistry, 2015, 54, 143-152.	4.0	103
10	Distinct magnetic dynamic behavior for two polymorphs of the same Dy(iii) complex. Chemical Communications, 2011, 47, 6867.	4.1	91
11	A self-healing PDMS polymer with solvatochromic properties. Chemical Communications, 2015, 51, 8928-8930.	4.1	84
12	Mechano-induced luminescent and chiroptical switching in chiral cyclometalated platinum(<scp>ii</scp>) complexes. Journal of Materials Chemistry C, 2015, 3, 2350-2357.	5.5	83
13	A Punctureâ€Resistant and Selfâ€Healing Conductive Gel for Multifunctional Electronic Skin. Advanced Functional Materials, 2021, 31, 2107006.	14.9	82
14	Solvent-Induced Single-Crystal-to-Single-Crystal Transformation in Multifunctional Chiral Dysprosium(III) Compounds. Inorganic Chemistry, 2012, 51, 8649-8651.	4.0	74
15	A Highly Stretchable Polymer that Can Be Thermally Healed at Mild Temperature. Macromolecular Rapid Communications, 2016, 37, 952-956.	3.9	68
16	Facile preparation of silicon hollow spheres and their use in electrochemical capacitive energy storage. Chemical Communications, 2012, 48, 4950.	4.1	66
17	Interaction mechanism of aqueous heavy metals onto a newly synthesized IDA-chelating resin: Isotherms, thermodynamics and kinetics. Chemical Engineering Journal, 2011, 173, 106-114.	12.7	65
18	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.	12.7	64

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19	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.	3.0	59
20	Coordination polymers based on the octamolybdate and flexible bis(triazole) ligands with different spacer lengths. CrystEngComm, 2011, 13, 2350.	2.6	56
21	Ionic Ferroelectrics Based on Nickel Schiff Base Complexes. Inorganic Chemistry, 2010, 49, 1286-1288.	4.0	52
22	Distinct Mechanical and Self-Healing Properties in Two Polydimethylsiloxane Coordination Polymers with Fine-Tuned Bond Strength. Inorganic Chemistry, 2018, 57, 3232-3242.	4.0	51
23	Superstretchable, thermostable and ultrahigh-loading lithiumâ€“sulfur batteries based on nanostructural gel cathodes and gel electrolytes. Nano Energy, 2021, 80, 105510.	16.0	51
24	A Tough and Self-Healing Polymer Enabled by Promoting Bond Exchange in Boronic Esters with Neighboring Hydroxyl Groups. , 2021, 3, 1328-1338.		47
25	Synthesis and photovoltaic performances of donorâ€“Ïâ€“acceptor dyes utilizing 1,3,5-triazine as Ï€ spacers. Tetrahedron Letters, 2011, 52, 6492-6496.	1.4	45
26	Disassociation and Reformation Under Strain in Polymer with Dynamic Metalâ€“Ligand Coordination Cross-Linking. Macromolecules, 2019, 52, 660-668.	4.8	44
27	Synthesis and Physical Properties of Two Chiral Terpyridyl Europium(III) Complexes with Distinct Crystal Polarity. European Journal of Inorganic Chemistry, 2009, 2009, 4844-4849.	2.0	42
28	Novel Structural Diversity of Triazolate-Based Coordination Polymers Generated Solvothermally with Anions. Crystal Growth and Design, 2010, 10, 2136-2145.	3.0	42
29	Facile and environmentally friendly synthesis of ultrathin nickel hydroxide nanosheets with excellent supercapacitor performances. Nanoscale, 2016, 8, 11797-11802.	5.6	42
30	A Dielectric Elastomer Actuator That Can Self-Heal Integrally. ACS Applied Materials & Interfaces, 2020, 12, 44137-44146.	8.0	41
31	Universal Self-Healing Poly(dimethylsiloxane) Polymer Crosslinked Predominantly by Physical Entanglements. ACS Applied Materials & Interfaces, 2021, 13, 31129-31139.	8.0	40
32	Self-healing improves the stability and safety of polymer bonded explosives. Composites Science and Technology, 2018, 167, 346-354.	7.8	39
33	A Self-Healing and Shape Memory Polymer that Functions at Body Temperature. Molecules, 2019, 24, 3224.	3.8	39
34	Synthesis and Magnetic Properties of a Highly Conducting Neutral Nickel Complex with a Highly Conjugated Tetrathiafulvalenedithiolate Ligand. Inorganic Chemistry, 2007, 46, 6837-6839.	4.0	38
35	Homoleptic Copper(I) Arylthiolates as a New Class of pâ€Type Charge Carriers: Structures and Charge Mobility Studies. Chemistry - A European Journal, 2008, 14, 2965-2975.	3.3	38
36	An ultrafast self-healing polydimethylsiloxane elastomer with persistent sealing performance. Materials Chemistry Frontiers, 2019, 3, 1411-1421.	5.9	38

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37	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.	7.4	37
38	Asymmetric Donorâ€“Ï€â€Acceptorâ€Type Benzoâ€Fused Azaâ€BODIPYs: Facile Synthesis and Colorimetric Properties. Angewandte Chemie - International Edition, 2015, 54, 9070-9074.	13.8	36
39	Vapor-induced chiroptical switching in chiral cyclometalated platinum(<scp>ii</scp>) complexes with pinene functionalized C^N^N ligands. Journal of Materials Chemistry C, 2014, 2, 184-194.	5.5	34
40	Triazine dyes as photosensitizers for dye-sensitized solar cells. Tetrahedron, 2013, 69, 190-200.	1.9	32
41	Improving spectral response of monocrystalline silicon photovoltaic modules using high efficient luminescent downâ€shifting Eu³⁺ complexes. Progress in Photovoltaics: Research and Applications, 2013, 21, 668-675.	8.1	31
42	Synthesis, structure and chiroptical study of chiral macrocyclic imine nickel(ii) coordination compounds derived from camphor. Dalton Transactions, 2010, 39, 3227.	3.3	30
43	A new multicolored and near-infrared electrochromic material based on triphenylamine-containing poly(3,4-dithienylpyrrole). Organic Electronics, 2014, 15, 3735-3745.	2.6	29
44	Electrochromic properties of novel octa-pinene substituted double-decker Ln(<scp>iii</scp>) (Ln = Eu,) Tj ETQq0 0 0 rgBT /Overlock 10 T 3072-3080.	5.5	29
45	Three Properties in One Coordination Complex: Chirality, Spin Crossover, and Dielectric Switching. European Journal of Inorganic Chemistry, 2017, 2017, 3144-3149.	2.0	29
46	Vibrational and electronic circular dichroism monitoring of copper(II) coordination with a chiral ligand. Chirality, 2012, 24, 451-458.	2.6	28
47	A Noncentrosymmetric 3D Coordination Polymer of Metallocalix[4]arene. Inorganic Chemistry, 2008, 47, 11514-11518.	4.0	27
48	Improving the capacity and cycling-stability of Lithiumâ€“sulfur batteries using self-healing binders containing dynamic disulfide bonds. Sustainable Energy and Fuels, 2020, 4, 2760-2767.	4.9	27
49	An Underwater Longâ€Term Strong Adhesive Based on Boronic Esters with Enhanced Hydrolytic Stability. Advanced Functional Materials, 2022, 32, .	14.9	26
50	Low-temperature synthesis of Na2Mn5O10 for supercapacitor applications. Journal of Power Sources, 2011, 196, 10502-10506.	7.8	25
51	Tuning Electron-Conduction and Spin Transport in Magnetic Iron Oxide Nanoparticle Assemblies via Tetrathiafulvalene-Fused Ligands. ACS Nano, 2015, 9, 12205-12213.	14.6	25
52	Iron(II) Complexes Based on Ï€-Conjugated Terpyridine Ligands with Tetrathiafulvalene or Its Radical Analogue. European Journal of Inorganic Chemistry, 2013, 2013, 6037-6048.	2.0	23
53	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.	6.1	23
54	Efficient circularly polarized photoluminescence and electroluminescence of chiral spiro-skeleton based thermally activated delayed fluorescence molecules. Science China Chemistry, 2022, 65, 1347-1355.	8.2	23

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55	New insights into the mechanical and self-healing properties of polymers cross-linked by Fe(<scp>iii</scp>)-2,6-pyridinedicarboxamide coordination complexes. Polymer Chemistry, 2019, 10, 362-371.	3.9	21
56	A Fast and Room-temperature Self-healing Thermal Conductive Polymer Composite. Chinese Journal of Polymer Science (English Edition), 2021, 39, 1328-1336.	3.8	20
57	Interfacial engineering of CuSCN-based perovskite solar cells via PMMA interlayer toward enhanced efficiency and stability. New Journal of Chemistry, 2021, 45, 13168-13174.	2.8	20
58	Luminescent Gold(I) and Copper(I) Phosphane Complexes Containing the 4-Nitrophenylthiolate Ligand: Observation of Ï€â†'Ï€* Charge-Transfer Emission. European Journal of Inorganic Chemistry, 2008, 2008, 2421-2428.	2.0	19
59	Increasing the breakdown strength of dielectric actuators by using Cu/Cu_xO/silicone dielectric elastomers. Journal of Materials Chemistry C, 2018, 6, 12175-12179.	5.5	19
60	A Strong and Rigid Coordination Adaptable Network that Can Be Reprocessed and Recycled at Mild Conditions. CCS Chemistry, 0, , 1-17.	7.8	19
61	A Tough Metalâ€Coordinated Elastomer: A Fatigueâ€Resistant, Notchâ€Insensitive Material with an Excellent Selfâ€Healing Capacity. ChemPlusChem, 2019, 84, 432-440.	2.8	18
62	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.	3.6	17
63	Large low-field magnetoresistance in Fe₃O₄/molecule nanoparticles at room temperature. Journal Physics D: Applied Physics, 2011, 44, 025001.	2.8	16
64	Synthesis, structure and physical properties of the one-dimensional chain complex of tetrathiafulvalene carboxylate. Science in China Series B: Chemistry, 2009, 52, 1596-1601.	0.8	15
65	Enhancing magnetoresistance in tetrathiafulvalene carboxylate modified iron oxide nanoparticle assemblies. Nanoscale, 2016, 8, 12128-12133.	5.6	14
66	A Supramolecular Polymer Formed by Small Molecules. Cell Reports Physical Science, 2020, 1, 100144.	5.6	14
67	A Fast Selfâ€Healing Magnetic Nanocomposite for Magnetic Actuators. Macromolecular Materials and Engineering, 2022, 307, 2100649.	3.6	14
68	Synthesis and characterization of neutral iron(ii) and ruthenium(ii) complexes with the isocyanotriphenylborate ligand. Dalton Transactions, 2009, , 10256.	3.3	12
69	Novel redox responsive chiral cyclometalated platinum(ii) complexes with pinene functionalized C^N^N ligands. New Journal of Chemistry, 2016, 40, 2628-2636.	2.8	12
70	Pineneâ€Functionalized Polysiloxane as an Excellent Selfâ€Healing Superhydrophobic Polymer. Macromolecular Chemistry and Physics, 2019, 220, 1900361.	2.2	12
71	A Self-Healing Polymer with Fast Elastic Recovery upon Stretching. Molecules, 2020, 25, 597.	3.8	12
72	Coordination Strategy Driving the Formation of Compact CuSCN Holeâ€Transporting Layers for Efficient Perovskite Solar Cells. Solar Rrl, 2021, 5, 2000777.	5.8	11

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73	Efficient and Stable Wideâ€Bandgap Perovskite Solar Cells Derived from a Thermodynamic Phaseâ€Pure Intermediate. Solar Rrl, 2022, 6, .	5.8	11
74	Long-range superexchanged magnetic interaction observed in heterometallic complex: {[FeII(Tpms)(CN)3][MnII(H2O)2(DMF)2]}Â·DMF. Inorganica Chimica Acta, 2005, 358, 4057-4061.	2.4	10
75	Efficient blue emitters based on 1,3,5-triazine for nondoped organic light emitting diode applications. Organic Electronics, 2012, 13, 2177-2184.	2.6	10
76	Dramatic improvement in photostability of luminescent Eu(III) complexes with tetraphenylimidodiphosphinate ligand. Journal of Luminescence, 2014, 146, 544-549.	3.1	10
77	Facile synthesis of phthalocyanine at low temperature with diisopropylamide anion as nucleophile. Tetrahedron Letters, 2015, 56, 4459-4462.	1.4	10
78	Phthalorubines: Fusedâ€Ring Compounds Synthesized from Phthalonitrile. Angewandte Chemie - International Edition, 2018, 57, 15384-15389.	13.8	10
79	A Strong and Rigid Coordination Adaptable Network that Can Be Reprocessed and Recycled at Mild Conditions. CCS Chemistry, 2022, 4, 3781-3797.	7.8	10
80	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.	2.4	8
81	Circular Dichroism Spectroscopy Study of Crystallineâ€toâ€Amorphous Transformation in Chiral Platinum(II) Complexes. Chirality, 2013, 25, 384-392.	2.6	8
82	Synthesis and ferroelectric properties of platinum(II) complexes with chiral isoxazoline ligand. Polyhedron, 2013, 60, 85-92.	2.2	7
83	A silver-functionalized metalâ€“organic framework with effective antibacterial activity. New Journal of Chemistry, 2022, 46, 5922-5926.	2.8	7
84	A healable, recyclable and thermochromic epoxy resin for thermally responsive smart windows. Polymer Chemistry, 2022, 13, 2178-2186.	3.9	7
85	Synthesis and properties of a Cu4(SCN)4 cubane cluster-based coordination polymer with a diamond net. Inorganic Chemistry Communication, 2011, 14, 558-561.	3.9	6
86	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.	2.4	5
87	Reducing the reprocessing and healing temperature of polyurea with piperazine-based hindered urea bonds. Materials Chemistry Frontiers, 2022, 6, 473-481.	5.9	5
88	VCD spectroscopy probing of weak intermolecular interactions between copper coordination compounds and N-blocked amino acids. Vibrational Spectroscopy, 2012, 63, 451-459.	2.2	4
89	Phthalorubines: Fusedâ€Ring Compounds Synthesized from Phthalonitrile. Angewandte Chemie, 2018, 130, 15610-15615.	2.0	4
90	Visible light responsive spiropyran derivatives based on dynamic coordination bonds. Chinese Chemical Letters, 2023, 34, 107457.	9.0	4

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91	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.	2.4	2
92	New Organic Dyes from Phthalonitrile via Interesting Nucleophilic Reactions. Synlett, 2020, 31, 1231-1236.	1.8	2
93	A combined strategy of room-temperature plasma activation and chemical treatment to toughen the interfacial adhesion of fluoropolymers. Chemical Engineering Journal, 2022, 435, 135006.	12.7	2
94	Tris{bis[hydrotris(1-pyrazolyl)borato-Î³3N2,N2â€²,N2â€²â€²]iron(III)} hexaisothiocyanatoiron(III). Acta Crystallographica Section C: Crystal Structure Communications, 2004, 60, m258-m260.	0.4	1
95	A Facile Synthetic Method and New Derivatives of Phthalorubines. Acta Chimica Sinica, 2021, 79, 81.	1.4	1