

Cheng-Hui Li

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/1908133/publications.pdf>

Version: 2024-02-01

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	Visible light responsive spiropyran derivatives based on dynamic coordination bonds. Chinese Chemical Letters, 2023, 34, 107457.	9.0	4
2	A Fast Self-Healing Magnetic Nanocomposite for Magnetic Actuators. Macromolecular Materials and Engineering, 2022, 307, 2100649.	3.6	14
3	Reducing the reprocessing and healing temperature of polyurea with piperazine-based hindered urea bonds. Materials Chemistry Frontiers, 2022, 6, 473-481.	5.9	5
4	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
5	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
6	A silver-functionalized metal-organic framework with effective antibacterial activity. New Journal of Chemistry, 2022, 46, 5922-5926.	2.8	7
7	A healable, recyclable and thermochromic epoxy resin for thermally responsive smart windows. Polymer Chemistry, 2022, 13, 2178-2186.	3.9	7
8	An Underwater Long-Term Strong Adhesive Based on Boronic Esters with Enhanced Hydrolytic Stability. Advanced Functional Materials, 2022, 32, .	14.9	26
9	Efficient and Stable Wide-Bandgap Perovskite Solar Cells Derived from a Thermodynamic Phase-Pure Intermediate. Solar Rrl, 2022, 6, .	5.8	11
10	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
11	Superstretchable, thermostable and ultrahigh-loading lithium-sulfur batteries based on nanostructural gel cathodes and gel electrolytes. Nano Energy, 2021, 80, 105510.	16.0	51
12	A Facile Synthetic Method and New Derivatives of Phthalorubines. Acta Chimica Sinica, 2021, 79, 81.	1.4	1
13	Coordination Strategy Driving the Formation of Compact CuSCN Hole-Transporting Layers for Efficient Perovskite Solar Cells. Solar Rrl, 2021, 5, 2000777.	5.8	11
14	Universal Self-Healing Poly(dimethylsiloxane) Polymer Crosslinked Predominantly by Physical Entanglements. ACS Applied Materials & Interfaces, 2021, 13, 31129-31139.	8.0	40
15	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
16	A Tough and Self-Healing Polymer Enabled by Promoting Bond Exchange in Boronic Esters with Neighboring Hydroxyl Groups. , 2021, 3, 1328-1338.		47
17	A Puncture-Resistant and Self-Healing Conductive Gel for Multifunctional Electronic Skin. Advanced Functional Materials, 2021, 31, 2107006.	14.9	82
18	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

#	ARTICLE	IF	CITATIONS
19	Self-Healing Polymers Based on Coordination Bonds. <i>Advanced Materials</i> , 2020, 32, e1903762.	21.0	343
20	A Supramolecular Polymer Formed by Small Molecules. <i>Cell Reports Physical Science</i> , 2020, 1, 100144.	5.6	14
21	A Dielectric Elastomer Actuator That Can Self-Heal Integrally. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 44137-44146.	8.0	41
22	New Organic Dyes from Phthalonitrile via Interesting Nucleophilic Reactions. <i>Synlett</i> , 2020, 31, 1231-1236.	1.8	2
23	Improving the capacity and cycling-stability of Lithium-sulfur batteries using self-healing binders containing dynamic disulfide bonds. <i>Sustainable Energy and Fuels</i> , 2020, 4, 2760-2767.	4.9	27
24	A Self-Healing Polymer with Fast Elastic Recovery upon Stretching. <i>Molecules</i> , 2020, 25, 597.	3.8	12
25	Pinene-Functionalized Polysiloxane as an Excellent Self-Healing Superhydrophobic Polymer. <i>Macromolecular Chemistry and Physics</i> , 2019, 220, 1900361.	2.2	12
26	A Self-Healing and Shape Memory Polymer that Functions at Body Temperature. <i>Molecules</i> , 2019, 24, 3224.	3.8	39
27	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.	3.9	21
28	An ultrafast self-healing polydimethylsiloxane elastomer with persistent sealing performance. <i>Materials Chemistry Frontiers</i> , 2019, 3, 1411-1421.	5.9	38
29	Thermodynamically stable whilst kinetically labile coordination bonds lead to strong and tough self-healing polymers. <i>Nature Communications</i> , 2019, 10, 1164.	12.8	258
30	A Tough Metal-Coordinated Elastomer: A Fatigue-Resistant, Notch-Insensitive Material with an Excellent Self-Healing Capacity. <i>ChemPlusChem</i> , 2019, 84, 432-440.	2.8	18
31	Disassociation and Reformation Under Strain in Polymer with Dynamic Metal-Ligand Coordination Cross-Linking. <i>Macromolecules</i> , 2019, 52, 660-668.	4.8	44
32	Distinct Mechanical and Self-Healing Properties in Two Polydimethylsiloxane Coordination Polymers with Fine-Tuned Bond Strength. <i>Inorganic Chemistry</i> , 2018, 57, 3232-3242.	4.0	51
33	Increasing the breakdown strength of dielectric actuators by using Cu/Cu _x O/silicone dielectric elastomers. <i>Journal of Materials Chemistry C</i> , 2018, 6, 12175-12179.	5.5	19
34	Phthalorubines: Fused-Ring Compounds Synthesized from Phthalonitrile. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 15384-15389.	13.8	10
35	Phthalorubines: Fused-Ring Compounds Synthesized from Phthalonitrile. <i>Angewandte Chemie</i> , 2018, 130, 15610-15615.	2.0	4
36	An Elastic Autonomous Self-Healing Capacitive Sensor Based on a Dynamic Dual Crosslinked Chemical System. <i>Advanced Materials</i> , 2018, 30, e1801435.	21.0	280

#	ARTICLE	IF	CITATIONS
37	A rigid and healable polymer cross-linked by weak but abundant Zn(II)-carboxylate interactions. <i>Nature Communications</i> , 2018, 9, 2725.	12.8	242
38	Self-healing improves the stability and safety of polymer bonded explosives. <i>Composites Science and Technology</i> , 2018, 167, 346-354.	7.8	39
39	Three Properties in One Coordination Complex: Chirality, Spin Crossover, and Dielectric Switching. <i>European Journal of Inorganic Chemistry</i> , 2017, 2017, 3144-3149.	2.0	29
40	A Highly Stretchable Polymer that Can Be Thermally Healed at Mild Temperature. <i>Macromolecular Rapid Communications</i> , 2016, 37, 952-956.	3.9	68
41	Facile and environmentally friendly synthesis of ultrathin nickel hydroxide nanosheets with excellent supercapacitor performances. <i>Nanoscale</i> , 2016, 8, 11797-11802.	5.6	42
42	A highly stretchable autonomous self-healing elastomer. <i>Nature Chemistry</i> , 2016, 8, 618-624.	13.6	1,133
43	Insight into selective removal of copper from high-concentration nickel solutions with XPS and DFT: New technique to prepare 5N-nickel with chelating resin. <i>Journal of Environmental Sciences</i> , 2016, 48, 34-44.	6.1	23
44	A Highly Stretchable and Autonomous Self-Healing Polymer Based on Combination of Pt ^{II} -Pt and Fe ^{II} -Fe Interactions. <i>Macromolecular Rapid Communications</i> , 2016, 37, 1667-1675.	3.9	199
45	A Stiff and Healable Polymer Based on Dynamic Covalent Boroxine Bonds. <i>Advanced Materials</i> , 2016, 28, 8277-8282.	21.0	349
46	Enhancing magnetoresistance in tetrathiafulvalene carboxylate modified iron oxide nanoparticle assemblies. <i>Nanoscale</i> , 2016, 8, 12128-12133.	5.6	14
47	Novel redox responsive chiral cyclometalated platinum(ii) complexes with pinene functionalized C ^N ligands. <i>New Journal of Chemistry</i> , 2016, 40, 2628-2636.	2.8	12
48	Asymmetric Donor-Acceptor Type Benzofused Aza-BODIPYs: Facile Synthesis and Colorimetric Properties. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 9070-9074.	13.8	36
49	Facile synthesis of phthalocyanine at low temperature with diisopropylamide anion as nucleophile. <i>Tetrahedron Letters</i> , 2015, 56, 4459-4462.	1.4	10
50	Tuning Electron-Conduction and Spin Transport in Magnetic Iron Oxide Nanoparticle Assemblies via Tetrathiafulvalene-Fused Ligands. <i>ACS Nano</i> , 2015, 9, 12205-12213.	14.6	25
51	Mechano-induced luminescent and chiroptical switching in chiral cyclometalated platinum(II) complexes. <i>Journal of Materials Chemistry C</i> , 2015, 3, 2350-2357.	5.5	83
52	Electrochromic properties of novel octa-pinene substituted double-decker Ln(III) (Ln = Eu, Tb) Tj ETQq0 0 0 rgBT /Overlock 10 3072-3080.	5.5	29
53	A self-healing PDMS polymer with solvatochromic properties. <i>Chemical Communications</i> , 2015, 51, 8928-8930.	4.1	84
54	A novel tetraethylenepentamine functionalized polymeric adsorbent for enhanced removal and selective recovery of heavy metal ions from saline solutions. <i>RSC Advances</i> , 2015, 5, 75985-75997.	3.6	17

#	ARTICLE	IF	CITATIONS
55	Potential Switchable Circularly Polarized Luminescence from Chiral Cyclometalated Platinum(II) Complexes. <i>Inorganic Chemistry</i> , 2015, 54, 143-152.	4.0	103
56	Synthesis and characterization of a new series of nickel dithiolate compounds containing both acridinium cations and halogen anions. <i>Inorganica Chimica Acta</i> , 2014, 410, 88-93.	2.4	2
57	Dramatic improvement in photostability of luminescent Eu(III) complexes with tetraphenylimidodiphosphinate ligand. <i>Journal of Luminescence</i> , 2014, 146, 544-549.	3.1	10
58	A new multicolored and near-infrared electrochromic material based on triphenylamine-containing poly(3,4-dithienylpyrrole). <i>Organic Electronics</i> , 2014, 15, 3735-3745.	2.6	29
59	Vapor-induced chiroptical switching in chiral cyclometalated platinum(II) complexes with pinene functionalized C ^N ligands. <i>Journal of Materials Chemistry C</i> , 2014, 2, 184-194.	5.5	34
60	Improving spectral response of monocrystalline silicon photovoltaic modules using high efficient luminescent downshifting Eu ³⁺ complexes. <i>Progress in Photovoltaics: Research and Applications</i> , 2013, 21, 668-675.	8.1	31
61	High efficient removal of Cu(II) by a chelating resin from strong acidic solutions: Complex formation and DFT certification. <i>Chemical Engineering Journal</i> , 2013, 222, 240-247.	12.7	64
62	Circular Dichroism Spectroscopy Study of Crystalline to Amorphous Transformation in Chiral Platinum(II) Complexes. <i>Chirality</i> , 2013, 25, 384-392.	2.6	8
63	Synthesis and ferroelectric properties of platinum(II) complexes with chiral isoxazoline ligand. <i>Polyhedron</i> , 2013, 60, 85-92.	2.2	7
64	Triazine dyes as photosensitizers for dye-sensitized solar cells. <i>Tetrahedron</i> , 2013, 69, 190-200.	1.9	32
65	Iron(II) Complexes Based on π -Conjugated Terpyridine Ligands with Tetrathiafulvalene or Its Radical Analogue. <i>European Journal of Inorganic Chemistry</i> , 2013, 2013, 6037-6048.	2.0	23
66	VCD spectroscopy probing of weak intermolecular interactions between copper coordination compounds and N-blocked amino acids. <i>Vibrational Spectroscopy</i> , 2012, 63, 451-459.	2.2	4
67	Efficient blue emitters based on 1,3,5-triazine for nondoped organic light emitting diode applications. <i>Organic Electronics</i> , 2012, 13, 2177-2184.	2.6	10
68	Solvent-Induced Single-Crystal-to-Single-Crystal Transformation in Multifunctional Chiral Dysprosium(III) Compounds. <i>Inorganic Chemistry</i> , 2012, 51, 8649-8651.	4.0	74
69	Vibrational and electronic circular dichroism monitoring of copper(II) coordination with a chiral ligand. <i>Chirality</i> , 2012, 24, 451-458.	2.6	28
70	Facile preparation of silicon hollow spheres and their use in electrochemical capacitive energy storage. <i>Chemical Communications</i> , 2012, 48, 4950.	4.1	66
71	Distinct magnetic dynamic behavior for two polymorphs of the same Dy(III) complex. <i>Chemical Communications</i> , 2011, 47, 6867.	4.1	91
72	Coordination polymers based on the octamolybdate and flexible bis(triazole) ligands with different spacer lengths. <i>CrystEngComm</i> , 2011, 13, 2350.	2.6	56

#	ARTICLE	IF	CITATIONS
73	Synthesis and photovoltaic performances of donor-acceptor dyes utilizing 1,3,5-triazine as spacers. <i>Tetrahedron Letters</i> , 2011, 52, 6492-6496.	1.4	45
74	Low-temperature synthesis of Na ₂ Mn ₅ O ₁₀ for supercapacitor applications. <i>Journal of Power Sources</i> , 2011, 196, 10502-10506.	7.8	25
75	Synthesis, structure and magnetic properties of a two-dimensional manganese(II) complex with a maximum denticity of ethylenediaminetetraacetic ligand. <i>Inorganica Chimica Acta</i> , 2011, 376, 112-117.	2.4	8
76	Interaction mechanism of aqueous heavy metals onto a newly synthesized IDA-chelating resin: Isotherms, thermodynamics and kinetics. <i>Chemical Engineering Journal</i> , 2011, 173, 106-114.	12.7	65
77	Synthesis and properties of a Cu ₄ (SCN) ₄ cubane cluster-based coordination polymer with a diamond net. <i>Inorganic Chemistry Communication</i> , 2011, 14, 558-561.	3.9	6
78	Large low-field magnetoresistance in Fe ₃ O ₄ /molecule nanoparticles at room temperature. <i>Journal Physics D: Applied Physics</i> , 2011, 44, 025001.	2.8	16
79	Syntheses, structures, and properties of tricarbonyl rhenium(I) heteronuclear complexes with the multidentate bridging ligand containing bis(2-pyridine) and carboxylic acid. <i>Inorganica Chimica Acta</i> , 2010, 363, 3742-3749.	2.4	5
80	Synthesis, structure and chiroptical study of chiral macrocyclic imine nickel(II) coordination compounds derived from camphor. <i>Dalton Transactions</i> , 2010, 39, 3227.	3.3	30
81	Syntheses, Structures, and Physical Properties of Camphorate Coordination Polymers Controlled by Semirigid Auxiliary Ligands with Variable Coordination Positions and Conformations. <i>Crystal Growth and Design</i> , 2010, 10, 2596-2605.	3.0	59
82	Novel Structural Diversity of Triazolate-Based Coordination Polymers Generated Solvothermally with Anions. <i>Crystal Growth and Design</i> , 2010, 10, 2136-2145.	3.0	42
83	Single-ion magnets based on mononuclear lanthanide complexes with chiral Schiff base ligands [Ln(FTA) ₃ L] (Ln = Sm, Eu, Gd, Tb and Dy). <i>Chemical Communications</i> , 2010, 46, 2929.	4.1	233
84	Ionic Ferroelectrics Based on Nickel Schiff Base Complexes. <i>Inorganic Chemistry</i> , 2010, 49, 1286-1288.	4.0	52
85	Homoleptic copper(I) phenylselenolate polymer as a single-source precursor for Cu ₂ Se nanocrystals. Structure, photoluminescence and application in field-effect transistor. <i>Chemical Science</i> , 2010, 1, 515.	7.4	37
86	Synthesis and Physical Properties of Two Chiral Terpyridyl Europium(III) Complexes with Distinct Crystal Polarity. <i>European Journal of Inorganic Chemistry</i> , 2009, 2009, 4844-4849.	2.0	42
87	Synthesis, structure and physical properties of the one-dimensional chain complex of tetrathiafulvalene carboxylate. <i>Science in China Series B: Chemistry</i> , 2009, 52, 1596-1601.	0.8	15
88	Synthesis and characterization of neutral iron(II) and ruthenium(II) complexes with the isocyanotriphenylborate ligand. <i>Dalton Transactions</i> , 2009, , 10256.	3.3	12
89	Homoleptic Copper(I) Arylthiolates as a New Class of p-Type Charge Carriers: Structures and Charge Mobility Studies. <i>Chemistry - A European Journal</i> , 2008, 14, 2965-2975.	3.3	38
90	Luminescent Gold(I) and Copper(I) Phosphane Complexes Containing the 4-Nitrophenylthiolate Ligand: Observation of Charge-Transfer Emission. <i>European Journal of Inorganic Chemistry</i> , 2008, 2008, 2421-2428.	2.0	19

#	ARTICLE	IF	CITATIONS
91	A Noncentrosymmetric 3D Coordination Polymer of Metallocalix[4]arene. <i>Inorganic Chemistry</i> , 2008, 47, 11514-11518.	4.0	27
92	Synthesis and Magnetic Properties of a Highly Conducting Neutral Nickel Complex with a Highly Conjugated Tetrathiafulvalenedithiolate Ligand. <i>Inorganic Chemistry</i> , 2007, 46, 6837-6839.	4.0	38
93	Long-range superexchanged magnetic interaction observed in heterometallic complex: {[FeII(Tpms)(CN)3][MnII(H2O)2(DMF)2]}·DMF. <i>Inorganica Chimica Acta</i> , 2005, 358, 4057-4061.	2.4	10
94	Tris{bis[hydrotris(1-pyrazolyl)borato- λ^3 N2,N2- μ^2 ,N2- μ^2]iron(III)} hexaisothiocyanatoiron(III). <i>Acta Crystallographica Section C: Crystal Structure Communications</i> , 2004, 60, m258-m260.	0.4	1
95	A Strong and Rigid Coordination Adaptable Network that Can Be Reprocessed and Recycled at Mild Conditions. <i>CCS Chemistry</i> , 0, , 1-17.	7.8	19