

# Xiao-Yong Chang

## List of Publications by Year in descending order

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70  
papers

2,030  
citations

236925

25  
h-index

265206

42  
g-index

73  
all docs

73  
docs citations

73  
times ranked

2499  
citing authors

#	ARTICLE	IF	CITATIONS
1	Luminescent zinc(II) and copper(I) complexes for high-performance solution-processed monochromic and white organic light-emitting devices. <i>Chemical Science</i> , 2015, 6, 4623-4635.	7.4	133
2	N-Heterocyclic Carbene Iron(III) Porphyrin-Catalyzed Intramolecular C(sp <sup>3</sup> )-H Amination of Alkyl Azides. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 11947-11951.	13.8	104
3	Isomer-free: Precise Positioning of Chlorine-Induced Interpenetrating Charge Transfer for Elevated Solar Conversion. <i>IScience</i> , 2019, 17, 302-314.	4.1	103
4	Theoretical studies on the photophysical properties of luminescent pincer gold(III) arylacetylide complexes: the role of $\pi$ -conjugation at the C-deprotonated [C <sup>N</sup> C] ligand. <i>Chemical Science</i> , 2015, 6, 3026-3037.	7.4	90
5	From Cluster to Polymer: Ligand Cone Angle Controlled Syntheses and Structures of Copper(I) Alkynyl Complexes. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 10312-10316.	13.8	75
6	Integrated Afterglow and Self-Trapped Exciton Emissions in Hybrid Metal Halides for Anti-Counterfeiting Applications. <i>Advanced Materials</i> , 2022, 34, e2200607.	21.0	73
7	Controlling Metallophilic Interactions in Chiral Gold(I) Double Salts towards Excitation Wavelength-Tunable Circularly Polarized Luminescence. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 6915-6922.	13.8	71
8	Platinum(II) photo-catalysis for highly selective difluoroalkylation reactions. <i>Chemical Communications</i> , 2017, 53, 8948-8951.	4.1	70
9	A Benzo[1,2 <i>b</i> :4,5 <i>c</i> ]dithiophene-4,8-dione-Based Polymer Donor Achieving an Efficiency Over 16%. <i>Advanced Materials</i> , 2020, 32, e1907059.	21.0	70
10	Mechanism-based ligand design for copper-catalysed enantioconvergent C(sp <sup>3</sup> )-C(sp) cross-coupling of tertiary electrophiles with alkynes. <i>Nature Chemistry</i> , 2022, 14, 949-957.	13.6	68
11	The effects of chelating N <sub>4</sub> ligand coordination on Co(II)-catalysed photochemical conversion of CO <sub>2</sub> to CO: reaction mechanism and DFT calculations. <i>Catalysis Science and Technology</i> , 2016, 6, 7408-7420.	4.1	59
12	Arylruthenium(III) Porphyrin-Catalyzed C-H Oxidation and Epoxidation at Room Temperature and [Ru <sup>V</sup> (Por)(O)(Ph)] Intermediate by Spectroscopic Analysis and Density Functional Theory Calculations. <i>Journal of the American Chemical Society</i> , 2018, 140, 7032-7042.	13.7	59
13	Tunable Multicolor Phosphorescence of Crystalline Polymeric Complex Salts with Metallophilic Backbones. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 6279-6283.	13.8	57
14	An anticancer gold(III)-activated porphyrin scaffold that covalently modifies protein cysteine thiols. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 1321-1329.	7.1	52
15	Air-Stable Blue Phosphorescent Tetradentate Platinum(II) Complexes as Strong Photo-Reductant. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 14129-14133.	13.8	49
16	Copper-Catalyzed Enantioconvergent Cross-Coupling of Racemic Alkyl Bromides with Azole C(sp <sup>2</sup> )-H Bonds. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 380-384.	13.8	46
17	Efficient Color-Tunable Copper(I) Complexes and Their Applications in Solution-Processed Organic Light-Emitting Diodes. <i>Chemistry - an Asian Journal</i> , 2017, 12, 1490-1498.	3.3	42
18	Solvent-Induced Cluster-to-Cluster Transformation of Homoleptic Gold(I) Thiolates between Catenane and Ring-in-Ring Structures. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 16297-16306.	13.8	40

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19	Chirality-Economy Catalysis: Asymmetric Transfer Hydrogenation of Ketones by Ru-Catalysts of Minimal Stereogenicity. <i>ACS Catalysis</i> , 2019, 9, 5562-5566.	11.2	36
20	Self-Trapped Exciton Emission with High Thermal Stability in Antimony-Doped Hybrid Manganese Chloride. <i>Advanced Optical Materials</i> , 2022, 10, .	7.3	34
21	Asymmetric Synthesis of $\beta$ -Secondary Amino Alcohols via a Borrowing-Hydrogen Cascade. <i>Organic Letters</i> , 2020, 22, 7278-7283.	4.6	30
22	Assembly of strongly phosphorescent hetero-bimetallic and -trimetallic [2]catenane structures based on a coinage metal alkynyl system. <i>Chemical Science</i> , 2017, 8, 7815-7820.	7.4	28
23	Organocatalytic enantioselective Mannich-type addition of 5-H-thiazol-4-ones to isatin-derived imines: access to 3-substituted 3-amino-2-oxindoles featured by vicinal sulfur-containing tetrasubstituted stereocenters. <i>Organic Chemistry Frontiers</i> , 2018, 5, 3226-3230.	4.5	28
24	Organocatalytic enantioselective direct vinylogous Michael addition of $\beta$ -substituted deconjugate butenolides to azadienes. <i>Organic Chemistry Frontiers</i> , 2019, 6, 2452-2456.	4.5	28
25	Tripodal S-Ligand Complexes of Copper(I) as Catalysts for Alkene Aziridination, Sulfide Sulfimidation, and C-H Amination. <i>Inorganic Chemistry</i> , 2017, 56, 4253-4257.	4.0	27
26	Structure and Photoluminescence Transformation in Hybrid Manganese(II) Chlorides. <i>Inorganic Chemistry</i> , 2021, 60, 6600-6606.	4.0	27
27	Highly Efficient Thermally Activated Delayed Fluorescence from Pyrazine-Fused Carbene Au(I) Emitters. <i>Chemistry - A European Journal</i> , 2021, 27, 17834-17842.	3.3	27
28	Cu/chiral phosphoric acid-catalyzed radical-initiated asymmetric aminosilylation of alkene with hydrosilane. <i>Science China Chemistry</i> , 2019, 62, 1529-1536.	8.2	26
29	Chiral <i>cis</i> -iron(II) complexes with metal- and ligand-centered chirality for highly regio- and enantioselective alkylation of N-heteroaromatics. <i>Chemical Science</i> , 2020, 11, 684-693.	7.4	26
30	Multi-stimuli responsive cyanostilbene derivatives: pH, amine vapor sensing and mechanoluminescence. <i>Materials Chemistry Frontiers</i> , 2020, 4, 1720-1728.	5.9	26
31	Four-Electron Oxidation of Phenols to <i>p</i> -Benzoquinone Imines by a (Salen)ruthenium(VI) Nitrido Complex. <i>Journal of the American Chemical Society</i> , 2016, 138, 5817-5820.	13.7	25
32	From Cluster to Polymer: Ligand Cone Angle Controlled Syntheses and Structures of Copper(I) Alkynyl Complexes. <i>Angewandte Chemie</i> , 2016, 128, 10468-10472.	2.0	22
33	$\pi$ -Heterocyclic Carbene Iron(III) Porphyrin-Catalyzed Intramolecular C(sp <sup>3</sup> )-H Amination of Alkyl Azides. <i>Angewandte Chemie</i> , 2018, 130, 12123-12127.	2.0	22
34	Highly Active Manganese-Based CO <sub>2</sub> Reduction Catalysts with Bulky NHC Ligands: A Mechanistic Study. <i>Inorganic Chemistry</i> , 2020, 59, 10234-10242.	4.0	21
35	Dinuclear Zn <sup>II</sup> Complexes Exhibiting Thermally Activated Delayed Fluorescence and Luminescence Polymorphism. <i>Chemistry - A European Journal</i> , 2020, 26, 6887-6893.	3.3	20
36	Controlling Metallophilic Interactions in Chiral Gold(I) Double Salts towards Excitation Wavelength-Tunable Circularly Polarized Luminescence. <i>Angewandte Chemie</i> , 2020, 132, 6982-6989.	2.0	20

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37	Development of highly efficient platinum catalysts for hydroalkoxylation and hydroamination of unactivated alkenes. <i>Nature Communications</i> , 2021, 12, 1953.	12.8	20
38	Conformational Engineering of Two-Coordinate Gold(I) Complexes: Regulation of Excited-State Dynamics for Efficient Delayed Fluorescence. <i>ACS Applied Materials &amp; Interfaces</i> , 2022, 14, 13539-13549.	8.0	20
39	Tunable Multicolor Phosphorescence of Crystalline Polymeric Complex Salts with Metallophilic Backbones. <i>Angewandte Chemie</i> , 2018, 130, 6387-6391.	2.0	19
40	Bis(tridentate) Iron(II) Complexes with a Cyclometalating Unit: Photophysical Property Enhancement with Combinatorial Strong Ligand Field Effect. <i>Organometallics</i> , 2020, 39, 2791-2802.	2.3	18
41	Highly phosphorescent organopalladium( $\text{II}$ ) complexes with metal-to-ligand charge-transfer excited states in fluid solutions. <i>Dalton Transactions</i> , 2019, 48, 10417-10421.	3.3	17
42	Cu(I)-Catalyzed Enantioselective Alkynylation of Thiochromones. <i>Organic Letters</i> , 2020, 22, 1155-1159.	4.6	17
43	<i>cis</i> -Oxoruthenium complexes supported by chiral tetradentate amine ( $\text{N}_4$ ) ligands for hydrocarbon oxidations. <i>Chemical Science</i> , 2018, 9, 2803-2816.	7.4	13
44	Air-Stable Blue Phosphorescent Tetradentate Platinum(II) Complexes as Strong Photo-Reductant. <i>Angewandte Chemie</i> , 2018, 130, 14325-14329.	2.0	13
45	An Azido-Cyanide Mixed-Bridged [ $\text{Fe}_4\text{Ni}_4$ ] Single-Molecule Magnet. <i>Inorganic Chemistry</i> , 2019, 58, 7127-7130.	4.0	12
46	Solvent-Induced Cluster-to-Cluster Transformation of Homoleptic Gold(I) Thiolates between Catenane and Ring-in-Ring Structures. <i>Angewandte Chemie</i> , 2019, 131, 16443-16452.	2.0	11
47	Azido-Cyanide Mixed-Bridged $\text{Fe}^{\text{III}}\text{Ni}^{\text{II}}$ Complexes. <i>Inorganic Chemistry</i> , 2020, 59, 16215-16224.	4.0	11
48	Organocatalytic enantioselective [2 + 4]-annulation of $\beta$ -substituted allenates with <i>N</i> -acyldiazenes for the synthesis of optically active 1,3,4-oxadiazines. <i>Organic and Biomolecular Chemistry</i> , 2021, 19, 1727-1731.	2.8	11
49	Self-Assembly of Molecular Trefoil Knots Featuring Pentadecanuclear Homoleptic $\text{Au}_5$ , $\text{Au}_5/\text{Ag}_5$ , or $\text{Au}_5/\text{Cu}_5$ Alkynyl Coordination. <i>Angewandte Chemie - International Edition</i> , 2022, 61, .	13.8	11
50	The first crystallographically characterised ruthenium( $\text{VI}$ ) alkylimido porphyrin competent for aerobic epoxidation and hydrogen atom abstraction. <i>Chemical Communications</i> , 2020, 56, 4428-4431.	4.1	9
51	<i>cis</i> - $\text{Ru}^{\text{II}}$ -Ruthenium Complexes with Sterically Bulky Salen Ligands: Enantioselective Intermolecular Carbene Insertion into $\text{Si-H}$ Bonds and X-ray Crystal Structure of <i>cis</i> - $\text{Ru}^{\text{II}}(\text{salen})(\text{CO})(\text{CPh}_2)_2$ Complex. <i>Organometallics</i> , 2020, 39, 2642-2652.	2.3	9
52	Secondary Metal Coordination Using a Tetranuclear Complex as Ligand Leading to Hexanuclear Complexes with Enhanced Thermal Barriers for Electron Transfer. <i>CCS Chemistry</i> , 2021, 3, 2530-2538.	7.8	9
53	Cyano-containing tetraphenylethene isomers: similar bright mechanoluminescence, but diverse recoverable processes. <i>Materials Chemistry Frontiers</i> , 2021, 5, 885-892.	5.9	8
54	Manipulating the spin crossover behaviour in a series of cyanide-bridged $\{\text{Fe}^{\text{II}}\text{Fe}^{\text{II}}\}$ molecular squares through NCE co-ligands. <i>Dalton Transactions</i> , 2022, 51, 5596-5602.	3.3	8

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55	Thermally Induced Reversible Metal-to-Metal Charge Transfer in Mixed-Valence {Fe <sup>III</sup> / <sub>4</sub> Fe <sup>II</sup> / <sub>4</sub> } Cubes. <i>CCS Chemistry</i> , 2022, 4, 2452-2459.	7.8	7
56	Electrocatalytic CO <sub>2</sub> Reduction with Re <sup>II</sup> -Based Spiro Bipyridine Complexes: Effects of the Local Proton in the Second Coordination Sphere. <i>Chinese Journal of Chemistry</i> , 2021, 39, 1281-1287.	4.9	6
57	Mechanistic Investigation on Copper <sup>II</sup> -Arylacetylide Polymerization and Sensing Applications. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 18014-18021.	13.8	5
58	Phosphorescent Zwitterionic Pt(II) N-Heterocyclic Allenylidene Complexes: Metallophilicity and Ionic Self-Assembly. <i>Chinese Journal of Chemistry</i> , 2021, 39, 1159-1167.	4.9	5
59	Self-Assembly of Molecular Trefoil Knots Featuring Pentadecanuclear Homoleptic Au <sup>I</sup> , Au <sup>I</sup> /Ag <sup>I</sup> , or Au <sup>I</sup> /Cu <sup>I</sup> Alkynyl Coordination. <i>Angewandte Chemie</i> , 0, , .	2.0	5
60	cis-Dioxorhenium(V/VI) Complexes Supported by Neutral Tetradentate N <sub>4</sub> Ligands. Synthesis, Characterization, and Spectroscopy. <i>Inorganic Chemistry</i> , 2017, 56, 15066-15080.	4.0	4
61	Intramolecular Nitrene Insertion into Saturated C-H Bond Mediated C-N Bond Cleavage of a Coordinated NHC Ligand. <i>Chemistry - A European Journal</i> , 2019, 25, 10828-10833.	3.3	4
62	Copper <sup>II</sup> -Catalyzed Enantioconvergent Cross-Coupling of Racemic Alkyl Bromides with Azole C(sp <sup>2</sup> )-H Bonds. <i>Angewandte Chemie</i> , 2021, 133, 384-388.	2.0	4
63	Luminescent Platinum(II) Complexes with Bidentate Diacetylide Ligands: Structures, Photophysical Properties and Application Studies. <i>Chemistry - an Asian Journal</i> , 2021, 16, 2978-2992.	3.3	4
64	Structure and reactivity of germylene-bridged digold complexes. <i>Nature Communications</i> , 2022, 13, 1785.	12.8	4
65	Reactions of Dihaloboranes with Electron-Rich 1,4-Bis(trimethylsilyl)-1,4-diaza-2,5-cyclohexadienes. <i>Molecules</i> , 2020, 25, 2875.	3.8	3
66	Organocatalytic Enantioselective $\alpha$ -Amination by Conjugate Addition of 5-H-Thiazolones to Arylazocarboxylates: Access to Chiral N, S-acetals. <i>Asian Journal of Organic Chemistry</i> , 2020, 9, 1187-1191.	2.7	3
67	Self-assembly of Ni(II) metallacycles (a square and a triangle) supported by tetrazine radical bridges. <i>Dalton Transactions</i> , 2022, 51, 7644-7649.	3.3	3
68	Cyclometalated Iron and Ruthenium Complexes Supported by a Tetradentate Ligand Scaffold with Mixed O, N, and C Donor Atoms: Synthesis, Structures, and Excited-State Properties. <i>Organometallics</i> , 0, , .	2.3	2
69	Mechanistic Investigation on Copper <sup>II</sup> -Arylacetylide Polymerization and Sensing Applications. <i>Angewandte Chemie</i> , 2021, 133, 18162-18169.	2.0	0
70	Innenr&#246;cktitelbild: Self-Assembly of Molecular Trefoil Knots Featuring Pentadecanuclear Homoleptic Au <sup>I</sup> , Au <sup>I</sup> /Ag <sup>I</sup> , or Au <sup>I</sup> /Cu <sup>I</sup> Alkynyl Coordination ( <i>Angew. Chem.</i> 21/2022). <i>Angewandte Chemie</i> , 2022, 134, .	2.0	0