

# Xiaotai Wang

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/8765335/publications.pdf>

Version: 2024-02-01

63  
papers

2,664  
citations

218677

26  
h-index

182427

51  
g-index

63  
all docs

63  
docs citations

63  
times ranked

2656  
citing authors

#	ARTICLE	IF	CITATIONS
1	Unraveling the Mechanism of Palladium-Catalyzed Base-Free Cross-Coupling of Vinyl Carboxylates: Dual Role of Arylboronic Acids as a Reducing Agent and a Coupling Partner. <i>ACS Catalysis</i> , 2022, 12, 1809-1817.	11.2	3
2	Enantioselective Hydroxylation of Dihydrosilanes to Siâ€Chiral Silanols Catalyzed by In Situ Generated Copper(II) Species. <i>Angewandte Chemie - International Edition</i> , 2022, 61, .	13.8	19
3	Building an emission library of donorâ€“acceptorâ€“donor type linker-based luminescent metalâ€“organic frameworks. <i>Chemical Science</i> , 2022, 13, 8036-8044.	7.4	15
4	Preparation of Î±-amino acids <i>via</i> Ni-catalyzed reductive vinylation and arylation of Î±-pivaloyloxy glycine. <i>Chemical Science</i> , 2021, 12, 220-226.	7.4	15
5	Mechanistic insights into Ni-catalyzed hydrogen atom transfer (HAT)-triggered hydrodefluorination of CF <sub>3</sub> -substituted alkenes. <i>Dalton Transactions</i> , 2021, 50, 9026-9030.	3.3	1
6	Mechanism of nickel-catalyzed direct carbonyl-Heck coupling reaction: the crucial role of second-sphere interactions. <i>Dalton Transactions</i> , 2021, 50, 2654-2662.	3.3	10
7	Mechanistic Insights into Formation of All-Carbon Quaternary Centers via Scandium-Catalyzed Câ€“H Alkylation of Imidazoles with 1,1-Disubstituted Alkenes. <i>Journal of Organic Chemistry</i> , 2021, 86, 4598-4606.	3.2	7
8	Understanding Methyl Salicylate Hydrolysis in the Presence of Amino Acids. <i>Journal of Agricultural and Food Chemistry</i> , 2021, 69, 6013-6021.	5.2	2
9	Linker Engineering toward Full-Color Emission of UiO-68 Type Metalâ€“Organic Frameworks. <i>Journal of the American Chemical Society</i> , 2021, 143, 10547-10552.	13.7	54
10	Activation of Aryl Carboxylic Acids by Diboron Reagents towards Nickelâ€“Catalyzed Direct Decarbonylative Borylation. <i>Angewandte Chemie</i> , 2021, 133, 24715.	2.0	0
11	Tuning and Directing Energy Transfer in the Whole Visible Spectrum through Linker Installation in Metalâ€“Organic Frameworks. <i>Angewandte Chemie</i> , 2021, 133, 25252-25258.	2.0	5
12	Tuning and Directing Energy Transfer in the Whole Visible Spectrum through Linker Installation in Metalâ€“Organic Frameworks. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 25048-25054.	13.8	39
13	Frontispiece: Activation of Aryl Carboxylic Acids by Diboron Reagents towards Nickelâ€“Catalyzed Direct Decarbonylative Borylation. <i>Angewandte Chemie - International Edition</i> , 2021, 60, .	13.8	0
14	Carbon Dioxide Capture by Amino Acids through an Arginineâ€“Arginine Carbamate Ion Pair. <i>Industrial &amp; Engineering Chemistry Research</i> , 2021, 60, 17745-17749.	3.7	5
15	Mechanism of Câ€“P bond formation <i>via</i> Pd-catalyzed decarbonylative phosphorylation of amides: insight into the chemistry of the second coordination sphere. <i>Chemical Communications</i> , 2020, 56, 113-116.	4.1	7
16	Mechanism of Cobalt-Catalyzed Direct Aminocarbonylation of Unactivated Alkyl Electrophiles: Outer-Sphere Amine Substitution To Form Amide Bond. <i>ACS Catalysis</i> , 2020, 10, 1520-1527.	11.2	18
17	Mechanistic Insights into Hydroformylation Catalyzed by Cationic Cobalt(II) Complexes: In Silico Modification of the Catalyst System. <i>ACS Catalysis</i> , 2020, 10, 13551-13559.	11.2	8
18	Radical Dehydroxylative Alkylation of Tertiary Alcohols by Ti Catalysis. <i>Journal of the American Chemical Society</i> , 2020, 142, 16787-16794.	13.7	91



#	ARTICLE	IF	CITATIONS
37	Mechanism of <i>Z</i> -Selective Olefin Metathesis Catalyzed by a Ruthenium Monothiolate Carbene Complex: A DFT Study. <i>Organometallics</i> , 2014, 33, 4290-4294.	2.3	20
38	A Computational Mechanistic Study of an Unprecedented Heck-Type Relay Reaction: Insight into the Origins of Regio- and Enantioselectivities. <i>Journal of the American Chemical Society</i> , 2014, 136, 986-998.	13.7	118
39	Mechanism and Origins of <i>Z</i> Selectivity of the Catalytic Hydroalkoxylation of Alkynes via Rhodium Vinylidene Complexes To Produce Enol Ethers. <i>Organometallics</i> , 2013, 32, 2804-2813.	2.3	26
40	Alkaline earth metal-organic frameworks supported by ditopic carboxylates. <i>Journal of Coordination Chemistry</i> , 2013, 66, 826-835.	2.2	11
41	Computational Insight into the Mechanism of Selective Imine Formation from Alcohol and Amine Catalyzed by the Ruthenium(II)-PNP Pincer Complex. <i>European Journal of Inorganic Chemistry</i> , 2012, 2012, 5011-5020.	2.0	79
42	Does the Ruthenium Nitrate Catalyst Work Differently in <i>Z</i> -Selective Olefin Metathesis? A DFT Study. <i>Organometallics</i> , 2012, 31, 8654-8657.	2.3	52
43	A Thorough DFT Study of the Mechanism of Homodimerization of Terminal Olefins through Metathesis with a Chelated Ruthenium Catalyst: From Initiation to <i>Z</i> Selectivity to Regeneration. <i>Organometallics</i> , 2012, 31, 7222-7234.	2.3	58
44	Computational Study on the Catalytic Role of Pincer Ruthenium(II)-PNN Complex in Directly Synthesizing Amide from Alcohol and Amine: The Origin of Selectivity of Amide over Ester and Imine. <i>Organometallics</i> , 2011, 30, 5233-5247.	2.3	149
45	Three-component reactions leading to 2D and 3D metal-organic frameworks assembled on dinickel-carboxylate secondary building units. <i>Polyhedron</i> , 2011, 30, 47-52.	2.2	8
46	3D Lanthanide-organic coordination polymers built upon infinite 1D secondary building units. <i>Polyhedron</i> , 2008, 27, 3439-3442.	2.2	6
47	1-D Infinite Array of Metalloporphyrin Cages. <i>Inorganic Chemistry</i> , 2004, 43, 6878-6880.	4.0	36
48	Porous Lanthanide-Organic Frameworks: Synthesis, Characterization, and Unprecedented Gas Adsorption Properties. <i>Journal of the American Chemical Society</i> , 2003, 125, 3062-3067.	13.7	602
49	Self-assembly of one-dimensional coordination polymers from M(II) salts (M=Co, Cd) and flexible ligand 1,3-bis(4-pyridyl)propane. <i>Inorganica Chimica Acta</i> , 2002, 333, 152-154.	2.4	33
50	Novel silver(I)-organic coordination polymers: conversion of extended structures in the solid state as driven by argentophilic interactions. <i>Chemical Communications</i> , 2001, , 1762-1763.	4.1	130
51	A New Porous Three-Dimensional Lanthanide Coordination Polymer. <i>Inorganic Chemistry</i> , 2000, 39, 4174-4178.	4.0	171
52	Self-assembly of free-base tetrapyrrolylporphyrin units by metal ion coordination. <i>Chemical Communications</i> , 1999, , 157-158.	4.1	39
53	Isomerization of olefin carboxylic esters catalyzed by nickel and palladium compounds. <i>Journal of Molecular Catalysis A</i> , 1998, 130, 171-176.	4.8	20
54	Facile Syntheses of Titanium(II), Tin(II), and Vanadium(II) Porphyrin Complexes through Homogeneous Reduction. Reactivity of <i>trans</i> -(TTP)TiL <sub>2</sub> (L = THF, <i>t</i> -BuNC). <i>Inorganic Chemistry</i> , 1998, 37, 5-9.	4.0	26

#	ARTICLE	IF	CITATIONS
55	Titanium(II) Porphyrin Complexes: Versatile One- and Two-Electron Reducing Agents. Reduction of Organic Chlorides, Epoxides, and Sulfoxides. <i>Journal of Organic Chemistry</i> , 1998, 63, 356-360.	3.2	26
56	Decamethylnickelocenium hydrogen-7,7,8,8-tetracyanoperfluoro-p-quinodimethandiide: isolation of the protonated weak base [HTCNQF4]?. <i>Chemical Communications</i> , 1996, , 1979.	4.1	13
57	Organotransition-Metal Metallocarboranes. 41. Synthesis and Structure of B-B- and Cp*-Cp*-Linked Cobaltacarborane Clusters. <i>Organometallics</i> , 1995, 14, 4668-4675.	2.3	28
58	Organotransition-Metal Metallocarboranes. 42. Synthesis and Cluster Fusion of Iron-Centered Tetradecker Sandwiches. <i>Inorganic Chemistry</i> , 1995, 34, 6509-6513.	4.0	10
59	Organotransition-Metal Metallocarboranes. 44. Construction of Pentadecker and Hexadecker Sandwiches from Triple-Decker Building Blocks. <i>Journal of the American Chemical Society</i> , 1995, 117, 12218-12226.	13.7	22
60	Organotransition-Metal Metallocarboranes. 43. Directed Synthesis of Carborane-End-Capped Multidecker Sandwiches. <i>Journal of the American Chemical Society</i> , 1995, 117, 12227-12234.	13.7	48
61	Organotransition-metal metallocarboranes. 34. Synthesis and structure of a hexadecker sandwich. <i>Journal of the American Chemical Society</i> , 1994, 116, 2687-2688.	13.7	22
62	Carbon-rich metallocarboranes. 15. Novel metal-promoted cluster fusion reactions. <i>Inorganic Chemistry</i> , 1993, 32, 2156-2163.	4.0	18
63	Enantioselective Hydroxylation of Dihydrosilanes to Si-Chiral Silanols Catalyzed by In Situ Generated Copper(II) Species. <i>Angewandte Chemie</i> , 0, , .	2.0	3