

Tao Tu

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

101 papers	3,757 citations	35 h-index	59 g-index
127 ext. papers	4,235 ext. citations	7.3 avg, IF	5.58 L-index

#	Paper	IF	Citations
101	Fluorescent properties and probe features of newly synthesized acridine-terpyridyl bidentate ligand and its metalated complexes. <i>Journal of Luminescence</i> , 2022 , 244, 118765	3.8	1
100	Acceptorless dehydrogenation of primary alcohols to carboxylic acids by self-supported NHC-Ru single-site catalysts. <i>Journal of Catalysis</i> , 2022 , 408, 165-172	7.3	4
99	Colorimetric recognition of melamine in milk using novel pincer zinc complex stabilized gold nanoparticles. <i>Chinese Chemical Letters</i> , 2021 , 32, 3023-3023	8.1	2
98	Rare-Earth-Catalyzed Transsulfamidation of Sulfinamides with Amines. <i>Organic Letters</i> , 2021 , 23, 3718-3723	6.2	1
97	Highly efficient NHC-iridium-catalyzed N-methylation of alcohols with methanol at low catalyst loadings. <i>Science China Chemistry</i> , 2021 , 64, 1361-1366	7.9	7
96	Metallo-aerogels derived from chitosan with encapsulated metal nanoparticles as robust, efficient and selective nanocatalysts towards reduction of nitroarenes. <i>Nano Research</i> , 2021 , 14, 59-65	10	7
95	Hydrogen-bond-assisted transition-metal-free catalytic transformation of amides to esters. <i>Science China Chemistry</i> , 2021 , 64, 66-71	7.9	4
94	Highly Efficient and Selective N-Formylation of Amines with CO ₂ and H ₂ Catalyzed by Porous Organometallic Polymers. <i>Angewandte Chemie</i> , 2021 , 133, 4171-4178	3.6	1
93	Highly Efficient and Selective N-Formylation of Amines with CO and H Catalyzed by Porous Organometallic Polymers. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 4125-4132	16.4	14
92	Pd/NHC-catalyzed arylsulfonylation of boronic acids: A general and direct protocol to access diarylsulfones. <i>Tetrahedron Letters</i> , 2021 , 63, 152708	2	2
91	Nickel-Catalyzed Amination of Aryl Chlorides with Amides. <i>Organic Letters</i> , 2021 , 23, 687-691	6.2	6
90	Efficient hydrogenation of levulinic acid catalysed by spherical NHC-Ir assemblies with atmospheric pressure of hydrogen. <i>Green Chemistry</i> , 2021 , 23, 5037-5042	10	3
89	NHC-Iridium-Catalyzed Deoxygenative Coupling of Primary Alcohols Producing Alkanes Directly: Synergistic Hydrogenation with Sodium Formate Generated in Situ. <i>ACS Catalysis</i> , 2021 , 11, 10796-10801	13.1	4
88	Reversible stimuli-responsive chromism of a cyclometallated platinum(II) complex. <i>Chemical Communications</i> , 2020 , 56, 14705-14708	5.8	5
87	Selective Catalytic Dehydrogenative Oxidation of Bio-Polyols to Lactic Acid. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 13871-13878	16.4	18
86	Selective Catalytic Dehydrogenative Oxidation of Bio-Polyols to Lactic Acid. <i>Angewandte Chemie</i> , 2020 , 132, 13975-13982	3.6	3
85	Selective mono-N-methylation of nitroarenes with methanol catalyzed by atomically dispersed NHC-Ir solid assemblies. <i>Journal of Catalysis</i> , 2020 , 389, 337-344	7.3	18

84	Iridium-Catalyzed Selective Cross-Coupling of Ethylene Glycol and Methanol to Lactic Acid. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 10421-10425	16.4	15
83	Iridium-Catalyzed Selective Cross-Coupling of Ethylene Glycol and Methanol to Lactic Acid. <i>Angewandte Chemie</i> , 2020 , 132, 10507-10511	3.6	3
82	Single-Site Catalysts: Hierarchical Porous Organometallic Polymers Fabricated by Direct Knitting: Recyclable Single-Site Catalysts with Enhanced Activity (Adv. Mater. 6/2020). <i>Advanced Materials</i> , 2020 , 32, 2070046	24	
81	Assembly of Organometallics: Application in Catalysis and Molecular Recognition. <i>Series on Chemistry, Energy and the Environment</i> , 2020 , 351-385	0.2	
80	Transition-Metal-Free Approaches to Arylsulfones using Benzylic Ammonium Salts through C-N Bond Cleavage. <i>Asian Journal of Organic Chemistry</i> , 2020 , 9, 247-250	3	6
79	Hierarchical Porous Organometallic Polymers Fabricated by Direct Knitting: Recyclable Single-Site Catalysts with Enhanced Activity. <i>Advanced Materials</i> , 2020 , 32, e1905950	24	26
78	Robust NHC-palladacycles-catalyzed Suzuki-Miyaura cross-coupling of amides via C-N activation. <i>Green Synthesis and Catalysis</i> , 2020 , 1, 75-78	9.3	10
77	Selective Synthesis of ortho-Substituted Diarylsulfones by Using NHC-Au Catalysts under Mild Conditions. <i>Organic Letters</i> , 2019 , 21, 974-979	6.2	40
76	Visual recognition of melamine in milk via selective metallo-hydrogel formation. <i>Chinese Chemical Letters</i> , 2019 , 30, 2266-2270	8.1	5
75	Interfacial Self-Assembly of Closely Packed Nanoparticle Arrays of Silica@Multiporphyrin Hybrids as Light-Sensitizers for Dye Degradation and Viologen Photochromism. <i>Chemistry - an Asian Journal</i> , 2019 , 14, 3035-3045	4.5	5
74	A Concerted Catalytic System for Sonogashira Coupling Reactions: Combination of N-Heterocyclic Carbene Palladium and Copper Complexes. <i>Asian Journal of Organic Chemistry</i> , 2018 , 7, 1113-1117	3	8
73	Recent Advances in Supramolecular Gels and Catalysis. <i>Chemistry - an Asian Journal</i> , 2018 , 13, 712-729	4.5	76
72	An efficient and green pathway for continuous Friedel-Crafts acylation over $\gamma\text{-Fe}_2\text{O}_3$ and CaCO_3 nanoparticles prepared in the microreactors. <i>Chemical Engineering Journal</i> , 2018 , 331, 443-449	14.7	14
71	A novel micro-flow system under microwave irradiation for continuous synthesis of 1,4-dihydropyridines in the absence of solvents via Hantzsch reaction. <i>Chemical Engineering Journal</i> , 2018 , 331, 161-168	14.7	32
70	Ruthenium-Pincer-Catalyzed Hydrogenation of Lactams to Amino Alcohols. <i>Chemistry - an Asian Journal</i> , 2018 , 13, 2559-2565	4.5	11
69	Visual Discrimination of Phosphate Anion via Selective Metallo-Hydrogel Formation. <i>Chinese Journal of Organic Chemistry</i> , 2018 , 38, 705	3	3
68	N-Formylation of Amines with CO and H ₂ by Using NHC-Iridium Coordination Assemblies as Solid Molecular Catalysts. <i>Chemistry - an Asian Journal</i> , 2018 , 13, 3018-3021	4.5	15
67	The Catalytic Mechanism of the Class C Radical S-Adenosylmethionine Methyltransferase NosN. <i>Angewandte Chemie</i> , 2017 , 129, 3915-3919	3.6	9

66	The Catalytic Mechanism of the Class C Radical S-Adenosylmethionine Methyltransferase NosN. <i>Angewandte Chemie - International Edition</i> , 2017 , 56, 3857-3861	16.4	38
65	One-Pot Bimetallic Pd/Cu-Catalyzed Synthesis of Sulfonamides from Boronic Acids, DABSO and O-Benzoyl Hydroxylamines. <i>Chemistry - an Asian Journal</i> , 2017 , 12, 706-712	4.5	34
64	Chiral Titanium Coordination Assemblies: Robust Cooperative Self-Supported Catalysts for Asymmetric Ring Opening of meso-Epoxides with Aliphatic Amines. <i>Advanced Synthesis and Catalysis</i> , 2017 , 359, 494-505	5.6	13
63	Innentitelbild: The Catalytic Mechanism of the Class C Radical S-Adenosylmethionine Methyltransferase NosN (Angew. Chem. 14/2017). <i>Angewandte Chemie</i> , 2017 , 129, 3780-3780	3.6	
62	Ligand-Free Pd/Cu-Catalyzed Aminosulfonylation of Aryl Iodides for Direct Sulfonamide Syntheses. <i>Asian Journal of Organic Chemistry</i> , 2017 , 6, 1542-1545	3	7
61	Acenaphthoimidazolylidene Gold Complex-Catalyzed Alkylsulfonylation of Boronic Acids by Potassium Metabisulfite and Alkyl Halides: A Direct and Robust Protocol To Access Sulfones. <i>ACS Catalysis</i> , 2017 , 7, 4655-4659	13.1	39
60	Efficient Hydrogenation of Biomass Oxoacids to Lactones by Using NHC-Iridium Coordination Polymers as Solid Molecular Catalysts. <i>Chemistry - an Asian Journal</i> , 2017 , 12, 355-360	4.5	24
59	Pd(NHC)-catalyzed alkylsulfonylation of boronic acids: a general and efficient approach for sulfone synthesis. <i>Chemical Communications</i> , 2017 , 53, 12473-12476	5.8	32
58	Synthesis, Characterization and Catalytic Application of Pyridine-Bridged N-Heterocyclic Carbene-Ruthenium Complexes in the Hydrogenation of Carbonates. <i>Chemistry - an Asian Journal</i> , 2017 , 12, 2809-2812	4.5	9
57	Iridium-Catalyzed Regio- and Stereoselective C-H Oxidative Reaction to (Z)-3-Arylidene-2-oxindole Imides under Neutral Conditions. <i>Advanced Synthesis and Catalysis</i> , 2017 , 359, 4294-4299	5.6	8
56	Robust Acenaphthoimidazolylidene Palladacycles: Highly Efficient Catalysts for the Amination of N-Heteroaryl Chlorides. <i>Chemistry - an Asian Journal</i> , 2017 , 12, 2364-2368	4.5	24
55	A magnetic nanoparticle-supported N-heterocyclic carbene-palladacycle: an efficient and recyclable solid molecular catalyst for Suzuki-Miyaura cross-coupling of 9-chloroacridine. <i>Chemical Communications</i> , 2017 , 53, 13063-13066	5.8	35
54	Sustainable and Selective Monomethylation of Anilines by Methanol with Solid Molecular NHC-Ir Catalysts. <i>ACS Sustainable Chemistry and Engineering</i> , 2017 , 5, 11744-11751	8.3	48
53	NHC-based coordination polymers as solid molecular catalysts for reductive amination of biomass levulinic acid. <i>Green Chemistry</i> , 2017 , 19, 789-794	10	55
52	Efficient N -heterocyclic carbene nickel pincer complexes catalyzed cross coupling of benzylic ammonium salts with boronic acids. <i>Chinese Chemical Letters</i> , 2017 , 28, 350-353	8.1	10
51	Synthesis and crystal structures of palladium(II) complexes of bis-(N-heterocyclic carbenes) on a calix[4]arene platform. <i>Transition Metal Chemistry</i> , 2016 , 41, 827-834	2.1	
50	Copper complexes bearing an NHC-calixarene unit: synthesis and application in click chemistry. <i>New Journal of Chemistry</i> , 2016 , 40, 9477-9485	3.6	13
49	Macroscopic and Fluorescent Discrimination of Adenosine Triphosphate via Selective Metallo-hydrogel Formation: A Visual, Practical, and Reliable Rehearsal toward Cellular Imaging. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 20583-90	9.5	43

48	Robust Iridium Coordination Polymers: Highly Selective, Efficient, and Recyclable Catalysts for Oxidative Conversion of Glycerol to Potassium Lactate with Dihydrogen Liberation. <i>ACS Catalysis</i> , 2015 , 5, 6573-6578	13.1	57
47	Copper-catalyzed electrophilic amination of sodium sulfinates at room temperature. <i>Chemical Communications</i> , 2015 , 51, 16573-6	5.8	41
46	Silver-Catalyzed Cross-Coupling of Isocyanides and Active Methylene Compounds by a Radical Process. <i>Angewandte Chemie</i> , 2015 , 127, 10764-10768	3.6	16
45	Silver-Catalyzed Cross-Coupling of Isocyanides and Active Methylene Compounds by a Radical Process. <i>Angewandte Chemie - International Edition</i> , 2015 , 54, 10618-22	16.4	67
44	Decarbonylative C-C bond-forming reactions of saccharins by nickel catalysis: homocoupling and cycloaddition. <i>Chemistry - A European Journal</i> , 2015 , 21, 5332-6	4.8	16
43	The electronic effects of ligands on metal-coordination geometry: a key role in the visual discrimination of dimethylaminopyridine and its application towards chemo-switch. <i>Chemical Communications</i> , 2015 , 51, 4267-70	5.8	28
42	Photoresponsive metallo-hydrogels based on visual discrimination of the positional isomers through selective thixotropic gel collapse. <i>Chemical Communications</i> , 2014 , 50, 3313-6	5.8	50
41	Tunable reversible metallo-hydrogels: a new platform for visual discrimination of biothiols. <i>Chemical Communications</i> , 2014 , 50, 10118-21	5.8	22
40	Efficient and scalable Pd-catalyzed double aminocarbonylations under atmospheric pressure at low catalyst loadings. <i>Organic Chemistry Frontiers</i> , 2014 , 1, 1261-1265	5.2	20
39	Neutral and Cationic NCN Pincer Platinum(II) Complexes with 1,3-Bis(benzimidazol-2-yl)benzene Ligands: Synthesis, Structures, and Their Photophysical Properties. <i>Organometallics</i> , 2014 , 33, 1563-1573	3.8	18
38	Acenaphthoimidazolium chloride-enabled nickel-catalyzed amination of bulky aryl tosylates. <i>Organic Chemistry Frontiers</i> , 2014 , 1, 1172-1175	5.2	19
37	Design and Development of Ligands for Palladium-Catalyzed Carbonylation Reactions. <i>Synthesis</i> , 2014 , 46, 1689-1708	2.9	42
36	Synthesis, characterization and X-ray structures of N-heterocyclic carbene palladium complexes based on calix[4]arenes: highly efficient catalysts towards Suzuki-Miyaura cross-coupling reactions. <i>Tetrahedron</i> , 2014 , 70, 2829-2837	2.4	30
35	Mild Negishi cross-coupling reactions catalyzed by acenaphthoimidazolylidene palladium complexes at low catalyst loadings. <i>Journal of Organic Chemistry</i> , 2013 , 78, 7436-44	4.2	58
34	Suzuki-Miyaura cross-coupling of bulky anthracenyl carboxylates by using pincer nickel N-heterocyclic carbene complexes: an efficient protocol to access fluorescent anthracene derivatives. <i>Chemical Communications</i> , 2013 , 49, 11539-41	5.8	55
33	Novel robust benzimidazolylidene palladium complexes: synthesis, structure, and catalytic applications in amination of chloroarenes. <i>Tetrahedron</i> , 2013 , 69, 673-679	2.4	42
32	Highly efficient aminocarbonylation of iodoarenes at atmospheric pressure catalyzed by a robust acenaphthoimidazolylidene allylic palladium complex. <i>Organic Letters</i> , 2013 , 15, 3678-81	6.2	71
31	Novel Supramolecular Thixotropic Metallohydrogels Consisting of Rare Metal-Organic Nanoparticles: Synthesis, Characterization, and Mechanism of Aggregation. <i>Journal of Physical Chemistry C</i> , 2013 , 117, 25185-25194	3.8	60

30	Visual-size molecular recognition based on gels. <i>Advanced Materials</i> , 2013 , 25, 5304-13	24	109
29	Robust acenaphthoimidazolylidene palladium complexes: highly efficient catalysts for Suzuki-Miyaura couplings with sterically hindered substrates. <i>Organic Letters</i> , 2012 , 14, 4250-3	6.2	107
28	Synthesis and characterization of a stable copper (I) calix[4]dicyano-diimidazole complex. <i>Tetrahedron Letters</i> , 2012 , 53, 4648-4650	2	5
27	Efficient and practical transition metal-free catalytic hydration of organonitriles to amides. <i>Green Chemistry</i> , 2012 , 14, 921	10	54
26	A highly efficient precatalyst for amination of aryl chlorides: synthesis, structure and application of a robust acenaphthoimidazolylidene palladium complex. <i>Chemical Communications</i> , 2011 , 47, 12358-60	5.8	96
25	Visual Chiral Recognition through Enantioselective Metallogel Collapsing: Synthesis, Characterization, and Application of Platinum Steroid Low-Molecular-Mass Gelators. <i>Angewandte Chemie</i> , 2011 , 123, 6731-6735	3.6	58
24	Visual chiral recognition through enantioselective metallogel collapsing: synthesis, characterization, and application of platinum-steroid low-molecular-mass gelators. <i>Angewandte Chemie - International Edition</i> , 2011 , 50, 6601-5	16.4	208
23	Efficient Aqueous-Phase Heck Reaction Catalyzed by a Robust Hydrophilic Pyridine-Bridged Bisbenzimidazolylidene-Palladium Pincer Complex. <i>Synlett</i> , 2011 , 2011, 951-954	2.2	10
22	A robust hydrophilic pyridine-bridged bis-benzimidazolylidene palladium pincer complex: synthesis and its catalytic application towards Suzuki-Miyaura couplings in aqueous solvents. <i>Dalton Transactions</i> , 2010 , 39, 10598-600	4.3	79
21	A pyridine-bridged bis-benzimidazolylidene pincer nickel(II) complex: synthesis and practical catalytic application towards Suzuki-Miyaura coupling with less-activated electrophiles. <i>Chemical Communications</i> , 2010 , 46, 7796-8	5.8	109
20	A Lutidine-Bridged Bis-Perimidinium Salt: Synthesis and Application as a Precursor in Palladium-Catalyzed Cross-Coupling Reactions. <i>Advanced Synthesis and Catalysis</i> , 2009 , 351, 1029-1034	5.6	65
19	Efficient air-stable organometallic low-molecular-mass gelators for ionic liquids: synthesis, aggregation and application of pyridine-bridged bis(benzimidazolylidene)-palladium complexes. <i>Chemistry - A European Journal</i> , 2009 , 15, 1853-61	4.8	115
18	Crystal Structures of Spiroborates Derived from [1,1'-Binaphthalene]-2,2'-diol (BINOL). <i>Crystal Growth and Design</i> , 2008 , 8, 1541-1546	3.5	16
17	Synthesis and structure of spirocyclic tetraethers derived from [1,1'-Binaphthalene]-2,2'-diol and pentaerythritol. <i>Journal of Organic Chemistry</i> , 2008 , 73, 5255-63	4.2	10
16	Pyridine-bridged benzimidazolium salts: synthesis, aggregation, and application as phase-transfer catalysts. <i>Angewandte Chemie - International Edition</i> , 2008 , 47, 7127-31	16.4	74
15	A Novel Pyridine-Bridged Bis-benzimidazolylidene Pincer Palladium Complex: Synthesis and Catalytic Properties. <i>Advanced Synthesis and Catalysis</i> , 2008 , 350, 1791-1795	5.6	74
14	Pyridin-verbrückte Benzimidazoliumsalze: Synthese, Aggregation und Anwendung als Phasentransferkatalysatoren. <i>Angewandte Chemie</i> , 2008 , 120, 7236-7240	3.6	13
13	An air-stable organometallic low-molecular-mass gelator: synthesis, aggregation, and catalytic application of a palladium pincer complex. <i>Angewandte Chemie - International Edition</i> , 2007 , 46, 6368-71	16.4	180

12	Ein luftstabiler metallorganischer niedermolekularer Gelbildner: Synthese, Aggregation und katalytische Anwendung eines Palladium-Pinzettenkomplexes. <i>Angewandte Chemie</i> , 2007 , 119, 6486-6490	3.6	49
11	Enantioselective Transition-Metal Catalyzed Carbon-Carbon Bond Formation Reactions using Novel Chiral Ferrocenes and Cyclophanes. <i>Topics in Catalysis</i> , 2005 , 35, 87-103	2.3	23
10	Ligand electronic effects in the palladium catalyzed asymmetric allylic alkylation reaction with planar chiral diphosphine-oxazoline ferrocenyl ligands. <i>Journal of Organometallic Chemistry</i> , 2004 , 689, 3847-3852	2.3	20
9	The Regioselectivity of the Asymmetric Intermolecular Heck Reaction with Planar Chiral Diphosphine-Oxazoline Ferrocenyl Ligands. <i>Chemistry - A European Journal</i> , 2003 , 9, 3073-3081	4.8	78
8	Asymmetric hydroesterification of styrene using catalysts with planar-chiral ferrocene oxazoline ligands. <i>Tetrahedron: Asymmetry</i> , 2003 , 14, 2291-2295		32
7	Trans Effect of Different Coordinated Atoms of Planar Chiral Ferrocene Ligands with the Same Backbone in Palladium-Catalyzed Allylic Substitutions. <i>Organometallics</i> , 2003 , 22, 1255-1265	3.8	88
6	Highly regio- and enantioselective Heck reaction of N-methoxycarbonyl-2-pyrroline with planar chiral diphosphine-oxazoline ferrocenyl ligands. <i>Organic Letters</i> , 2003 , 5, 3651-3	6.2	61
5	Asymmetric catalysis with chiral ferrocene ligands. <i>Accounts of Chemical Research</i> , 2003 , 36, 659-67	24.3	483
4	A N-Heterocyclic Carbene-Palladacycle with Constrained Aliphatic Linker: Synthesis, Characterization and Its Catalytic Application towards Suzuki-Miyaura Cross-Coupling. <i>Asian Journal of Organic Chemistry</i> ,	3	1
3	Selective Transformation of Vicinal Glycols to α -Hydroxy Acetates in Water via a Dehydrogenation and Oxidization Relay Process by a Self-Supported Single-Site Iridium Catalyst. <i>ACS Catalysis</i> , 12833-12839	13.1	6
2	Lamellar Enzyme-Metal-Organic Framework Composites Enable Catalysis on Large Substrates. <i>CCS Chemistry</i> , 1198-1205	7.2	1
1	Hyper-Crosslinked Porous Chiral Phosphoric Acids: Robust Solid Organocatalysts for Asymmetric Dearomatization Reactions. <i>ACS Catalysis</i> , 4545-4553	13.1	4