

# Datong Song

## List of Publications by Year in descending order

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63  
papers

3,040  
citations

172207

29  
h-index

161609

54  
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67  
all docs

67  
docs citations

67  
times ranked

3957  
citing authors

#	ARTICLE	IF	CITATIONS
1	Spin control in reduced-dimensional chiral perovskites. <i>Nature Photonics</i> , 2018, 12, 528-533.	15.6	371
2	A Luminescent Metal-Organic Framework as a Turn-On Sensor for DMF Vapor. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 710-713.	7.2	346
3	Palladium-Catalyzed Olefin Dioxygenation. <i>Journal of the American Chemical Society</i> , 2008, 130, 2962-2964.	6.6	236
4	Ester hydrogenation catalyzed by Ru-CNN pincer complexes. <i>Chemical Communications</i> , 2011, 47, 8349.	2.2	138
5	Multidentate actor ligands as versatile platforms for small molecule activation and catalysis. <i>RSC Advances</i> , 2013, 3, 11432.	1.7	125
6	Synthesis of Ruthenium Hydride Complexes Containing beta-Aminophosphine Ligands Derived from Amino Acids and their use in the H <sub>2</sub> -Hydrogenation of Ketones and Imines. <i>Advanced Synthesis and Catalysis</i> , 2005, 347, 571-579.	2.1	98
7	1,1-Hydroboration and a Borane Adduct of Diphenyldiazomethane: A Potential Prelude to FLP Chemistry. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 16588-16592.	7.2	93
8	1,1-Hydroboration and a Borane Adduct of Diphenyldiazomethane: A Potential Prelude to FLP Chemistry. <i>Angewandte Chemie</i> , 2017, 129, 16815-16819.	1.6	81
9	Asymmetric Hydrogenation of Ketones Catalyzed by Ruthenium Hydride Complexes of a Beta-aminophosphine Ligand Derived from Norephedrine. <i>Organometallics</i> , 2004, 23, 5524-5529.	1.1	80
10	Iron N-heterocyclic carbene complexes in homogeneous catalysis. <i>Chemical Society Reviews</i> , 2020, 49, 1209-1232.	18.7	74
11	High-Power-Efficiency Blue Electrophosphorescence Enabled by the Synergistic Combination of Phosphine-Oxide-Based Host and Electron-Transporting Materials. <i>Chemistry of Materials</i> , 2014, 26, 1463-1470.	3.2	68
12	Palladium-Catalyzed Intramolecular Carboesterification of Olefins. <i>Angewandte Chemie - International Edition</i> , 2009, 48, 9690-9692.	7.2	54
13	Iron-Catalyzed <i>gem</i> -Specific Dimerization of Terminal Alkynes. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 6317-6320.	7.2	53
14	Organocatalysts with carbon-centered activity for CO <sub>2</sub> reduction with boranes. <i>Chemical Communications</i> , 2015, 51, 11293-11296.	2.2	52
15	Highly Efficient and Robust Blue Phosphorescent Pt(II) Compounds with a Phenyl-1,2,3-triazolyl and a Pyridyl-1,2,4-triazolyl Chelate Core. <i>Advanced Functional Materials</i> , 2014, 24, 7257-7271.	7.8	49
16	Synthesis, Characterization, and Reactivity of a Versatile Dinuclear Palladium $\hat{\text{I}}^2$ -Diiminate Complex. <i>Organometallics</i> , 2008, 27, 1290-1298.	1.1	39
17	Active Iron(II) Catalysts toward <i>gem</i> -Specific Dimerization of Terminal Alkynes. <i>ACS Catalysis</i> , 2019, 9, 810-818.	5.5	39
18	Catalytic Alkyne Dimerization without Noble Metals. <i>ACS Catalysis</i> , 2020, 10, 4895-4905.	5.5	39

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19	Chemical reduction of CO <sub>2</sub> facilitated by C-nucleophiles. <i>Chemical Communications</i> , 2017, 53, 11390-11398.	2.2	38
20	Coordination chemistry and applications of versatile 4,5-diazafluorene derivatives. <i>Dalton Transactions</i> , 2016, 45, 32-49.	1.6	36
21	Structures of Pt <sub>2</sub> (CH <sub>3</sub> ) <sub>4</sub> (S(CH <sub>3</sub> ) <sub>2</sub> ) <sub>2</sub> and [PtPh <sub>2</sub> (S(CH <sub>3</sub> ) <sub>2</sub> )] <sub>n</sub> (n=2, 3). <i>Journal of Organometallic Chemistry</i> , 2002, 648, 302-305.	0.8	35
22	Unusual Rearrangement of an N-Donor-Functionalized N-Heterocyclic Carbene Ligand on Group 8 Metals. <i>Journal of the American Chemical Society</i> , 2018, 140, 1263-1266.	6.6	35
23	Reversible H <sub>2</sub> splitting between Ru(II) and a remote carbanion in a zwitterionic compound. <i>Chemical Communications</i> , 2010, 46, 556-558.	2.2	32
24	Reactivity of Fe and Ru Complexes of Picolyl-Substituted N-Heterocyclic Carbene Ligand: Diverse Coordination Modes and Small Molecule Binding. <i>Inorganic Chemistry</i> , 2017, 56, 11956-11970.	1.9	32
25	Homoleptic iron(II) and cobalt(II) bis(phosphoranimide) complexes for the selective hydrofunctionalization of unsaturated molecules. <i>Dalton Transactions</i> , 2017, 46, 12408-12412.	1.6	32
26	3D porous metal-organic framework for selective adsorption of methane over dinitrogen under ambient pressure. <i>Chemical Communications</i> , 2018, 54, 14104-14107.	2.2	32
27	Reversible formal insertion of CO <sub>2</sub> into a remote C-H bond of a ligand in a Ru(II) complex at room temperature. <i>Chemical Communications</i> , 2012, 48, 5416.	2.2	31
28	Tuning the Reactivity of an Actor Ligand for Tandem CO <sub>2</sub> and C-H Activations: From Spectator Metals to Metal-Free. <i>Journal of the American Chemical Society</i> , 2013, 135, 16175-16183.	6.6	30
29	A Hydride-Shuttle Mechanism for the Catalytic Hydroboration of CO <sub>2</sub> . <i>Inorganic Chemistry</i> , 2018, 57, 3054-3060.	1.9	30
30	Syntheses and structures of Li, Fe, and Mo derivatives of N,N'-bis(2,6-diisopropylphenyl)-o-phenylenediamine. <i>Dalton Transactions</i> , 2013, 42, 10640.	1.6	29
31	Constructing reactive Fe and Co complexes from isolated picolyl-functionalized N-heterocyclic carbenes. <i>Dalton Transactions</i> , 2018, 47, 9889-9896.	1.6	29
32	Syntheses, Characterizations, and Reactivities of 4,5-Diazafluorene Complexes of Palladium(II) and Rhodium(I). <i>Organometallics</i> , 2008, 27, 3587-3592.	1.1	27
33	Insertion of CO <sub>2</sub> into the carbon-boron bond of a boronic ester ligand. <i>Chemical Communications</i> , 2016, 52, 4148-4151.	2.2	27
34	A luminescent cationic metal-organic framework featuring [Cu-pyrazolate] <sub>3</sub> units for volatile organic compound sensing. <i>Dalton Transactions</i> , 2016, 45, 17087-17090.	1.6	25
35	Reactivity of heavy carbene analogues towards oxidants: a redox active ligand-enabled isolation of a paramagnetic stannylene. <i>Chemical Communications</i> , 2017, 53, 3090-3093.	2.2	23
36	Diplatinum Complexes Supported by Novel Tetradentate Ligands with Quinoline Functionalities for Tandem C-Cl Activation and Dearomatization. <i>Organometallics</i> , 2008, 27, 6614-6622.	1.1	20

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37	Syntheses, structures and luminescent properties of decorated lanthanide metal-organic frameworks of (E)-4,4- $\epsilon^2$ -(ethene-1,2-diyl)dibenzoic acids. <i>CrystEngComm</i> , 2011, 13, 1821-1830.	1.3	20
38	Iron complexes of a bidentate picolyl-NHC ligand: synthesis, structure and reactivity. <i>Dalton Transactions</i> , 2016, 45, 13872-13880.	1.6	20
39	Piano-Stool Iron Complexes as Precatalysts for gem-Specific Dimerization of Terminal Alkynes. <i>Organometallics</i> , 2020, 39, 2320-2326.	1.1	20
40	Syntheses, Structures, and Reactivities of Novel Palladium $\hat{I}^2$ -Diiminato $\hat{I}$ Acetate Complexes. <i>Inorganic Chemistry</i> , 2008, 47, 12010-12017.	1.9	19
41	Syntheses, Structures and Reactivities of Rhodium 4,5-Diazafluorene Derivatives. <i>European Journal of Inorganic Chemistry</i> , 2009, 2009, 2083-2089.	1.0	18
42	Construction of Rhodium(I) and Gold(I) Macrocycles by Transferring a Phosphine-Functionalized 4,5-Diazafluorene Ligand from Its Copper(I) N-Heterocyclic Carbene Complex. <i>Organometallics</i> , 2012, 31, 2184-2192.	1.1	18
43	Recent advances of mesoionic N-heterocyclic olefins. <i>Dalton Transactions</i> , 2022, 51, 9191-9198.	1.6	18
44	Novel dinuclear and trinuclear palladium $\hat{I}^2$ -diiminate complexes containing amido $\hat{I}$ -chloro double-bridges. <i>Dalton Transactions</i> , 2008, , 3279.	1.6	17
45	Zwitterionic indenylammonium with carbon-centred reactivity towards reversible CO <sub>2</sub> binding and catalytic reduction. <i>Organic and Biomolecular Chemistry</i> , 2017, 15, 2240-2245.	1.5	15
46	Reactivity of an Unprotected Mesoionic N-Heterocyclic Olefin. <i>Organometallics</i> , 2020, 39, 4115-4122.	1.1	15
47	RuCp* Complexes of Ambidentate 4,5-Diazafluorene Derivatives: From Linkage Isomers to Coordination-Driven Self-Assembly. <i>Organometallics</i> , 2013, 32, 6511-6521.	1.1	13
48	Synthesis and reactivity of Li and TaMe <sub>3</sub> complexes supported by N,N- $\epsilon^2$ -bis(2,6-diisopropylphenyl)-o-phenylenediamido ligands. <i>Dalton Transactions</i> , 2016, 45, 10672-10680.	1.6	13
49	Constructing fused N-heterocycles from unprotected mesoionic N-heterocyclic olefins and organic azides via diazo transfer. <i>Chemical Communications</i> , 2021, 57, 6137-6140.	2.2	13
50	Reaction of Dinuclear Rhodium 4,5-Diazafluorenyl-9-Carboxylate Complexes with H <sub>2</sub> and CO <sub>2</sub> . <i>Organometallics</i> , 2014, 33, 2776-2783.	1.1	12
51	Dioxygenation of unprotected mesoionic N-heterocyclic olefins. <i>Chemical Communications</i> , 2021, 57, 10927-10930.	2.2	12
52	[2Fe $\hat{I}$ -2S] Cluster Supported by Redox-Active o-Phenylenediamide Ligands and Its Application toward Dinitrogen Reduction. <i>Inorganic Chemistry</i> , 2021, 60, 13811-13820.	1.9	12
53	Aerobic oxidation of C(sp <sup>3</sup> ) $\hat{I}$ -H bonds of 4,5-diazafluorene promoted by coordination. <i>Dalton Transactions</i> , 2008, , 5879.	1.6	11
54	Palladium $\hat{I}^2$ -diiminate chemistry: Reactivity towards monodentate ligands and arylboronic acids. <i>Inorganica Chimica Acta</i> , 2012, 380, 308-321.	1.2	11

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55	Iron-Catalyzed <i>gem</i> -Specific Dimerization of Terminal Alkynes. <i>Angewandte Chemie</i> , 2017, 129, 6414-6417.	1.6	10
56	Unusual transmetallation-induced formation of a C <sub>2</sub> -symmetric tetrapallada-macrocycle. <i>Chemical Communications</i> , 2010, 46, 8261.	2.2	9
57	Selective one-pot syntheses of PtII-CuI heterobimetallic complexes of 4,5-diazafluorene derivatives. <i>Dalton Transactions</i> , 2013, 42, 16343.	1.6	9
58	Heterodinuclear complexes of 4,5-diazafluorene derivatives displaying $\eta^5, \eta^2$ -[N,N] and $\eta^5, \eta^1$ -N coordination modes. <i>Dalton Transactions</i> , 2014, 43, 8951.	1.6	9
59	Syntheses and Reactivity of Piano-Stool Iron Complexes of Picolyl-Functionalized N-Heterocyclic Carbene Ligands. <i>Organometallics</i> , 2021, 40, 3943-3951.	1.1	8
60	Direct Synthesis of CdSe Nanocrystals with Electroactive Ligands. <i>Chemistry of Materials</i> , 2016, 28, 4953-4961.	3.2	7
61	Reactivity of Ru(II) and V(III) complexes of diazafluorene derivatives towards B-H bonds. <i>Journal of Organometallic Chemistry</i> , 2018, 872, 79-86.	0.8	7
62	Syntheses and characterizations of iron complexes of bulky <i>o</i> -phenylenediamide ligand. <i>Dalton Transactions</i> , 2020, 49, 12287-12297.	1.6	5
63	Syntheses of tetraquinolinyl substituted pyrene, diphenylacetylene, and trans-stilbene ligands. <i>Tetrahedron Letters</i> , 2012, 53, 980-982.	0.7	2