Datong Song

List of Publications by Year
in descending order

63	3,040	172457	161849
papers	citations	29 h-index	54 g-index

67	67	67	3957
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Spin control in reduced-dimensional chiral perovskites. Nature Photonics, 2018, 12, 528-533.	31.4	371
2	A Luminescent Metalâ€“Organic Framework as a Turnâ€On Sensor for DMF Vapor. Angewandte Chemie - International Edition, 2013, 52, 710-713.	13.8	346
3	Palladium-Catalyzed Olefin Dioxygenation. Journal of the American Chemical Society, 2008, 130, 2962-2964.	13.7	236
4	Ester hydrogenation catalyzed by Ru-CNN pincer complexes. Chemical Communications, 2011, 47, 8349.	4.1	138
5	Multidentate actor ligands as versatile platforms for small molecule activation and catalysis. RSC Advances, 2013, 3, 11432.	3.6	125
6	Synthesis of Ruthenium Hydride Complexes Containing beta-Aminophosphine Ligands Derived from Amino Acids and their use in the H2-Hydrogenation of Ketones and Imines. Advanced Synthesis and Catalysis, 2005, 347, 571-579.	4.3	98
7	1,1â€Hydroboration and a Borane Adduct of Diphenyldiazomethane: A Potential Prelude to FLPâ€N₂ Chemistry. Angewandte Chemie - International Edition, 2017, 56, 16588-16592.	13.8	93
8	1,1â€Hydroboration and a Borane Adduct of Diphenyldiazomethane: A Potential Prelude to FLPâ€N₂ Chemistry. Angewandte Chemie, 2017, 129, 16815-16819.	2.0	81
9	Asymmetric Hydrogenation of Ketones Catalyzed by Ruthenium Hydride Complexes of a Beta-aminophosphine Ligand Derived from Norephedrine. Organometallics, 2004, 23, 5524-5529.	2.3	80
10	Iron N-heterocyclic carbene complexes in homogeneous catalysis. Chemical Society Reviews, 2020, 49, 1209-1232.	38.1	74
11	High-Power-Efficiency Blue Electrophosphorescence Enabled by the Synergistic Combination of Phosphine-Oxide-Based Host and Electron-Transporting Materials. Chemistry of Materials, 2014, 26, 1463-1470.	6.7	68
12	Palladiumâ€Catalyzed Intramolecular Carboesterification of Olefins. Angewandte Chemie - International Edition, 2009, 48, 9690-9692.	13.8	54
13	Ironâ€Catalyzed gemâ€Specific Dimerization of Terminal Alkynes. Angewandte Chemie - International Edition, 2017, 56, 6317-6320.	13.8	53
14	Organocatalysts with carbon-centered activity for CO₂ reduction with boranes. Chemical Communications, 2015, 51, 11293-11296.	4.1	52
15	Highly Efficient and Robust Blue Phosphorescent Pt(II) Compounds with a Phenylâ€1,2,3â€triazolyl and a Pyridylâ€1,2,4â€triazolyl Chelate Core. Advanced Functional Materials, 2014, 24, 7257-7271.	14.9	49
16	Synthesis, Characterization, and Reactivity of a Versatile Dinuclear Palladium Î²-Diiminate Complex. Organometallics, 2008, 27, 1290-1298.	2.3	39
17	Active Iron(II) Catalysts toward gem-Specific Dimerization of Terminal Alkynes. ACS Catalysis, 2019, 9, 810-818.	11.2	39
18	Catalytic Alkyne Dimerization without Noble Metals. ACS Catalysis, 2020, 10, 4895-4905.	11.2	39

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19	Chemical reduction of CO₂facilitated by C-nucleophiles. Chemical Communications, 2017, 53, 11390-11398.	4.1	38
20	Coordination chemistry and applications of versatile 4,5-diazafluorene derivatives. Dalton Transactions, 2016, 45, 32-49.	3.3	36
21	Structures of Pt2(CH3)4(S(CH3)2)2 and [PtPh2(S(CH3)2)]n (n=2, 3). Journal of Organometallic Chemistry, 2002, 648, 302-305.	1.8	35
22	Unusual Rearrangement of an N-Donor-Functionalized N-Heterocyclic Carbene Ligand on Group 8 Metals. Journal of the American Chemical Society, 2018, 140, 1263-1266.	13.7	35
23	Reversible H₂splitting between Ru(ii) and a remote carbanion in a zwitterionic compound. Chemical Communications, 2010, 46, 556-558.	4.1	32
24	Reactivity of Fe and Ru Complexes of Picolyl-Substituted N-Heterocyclic Carbene Ligand: Diverse Coordination Modes and Small Molecule Binding. Inorganic Chemistry, 2017, 56, 11956-11970.	4.0	32
25	Homoleptic iron(<scp>ii</scp>) and cobalt(<scp>ii</scp>) bis(phosphoranimide) complexes for the selective hydrofunctionalization of unsaturated molecules. Dalton Transactions, 2017, 46, 12408-12412.	3.3	32
26	3D porous metalâ€“organic framework for selective adsorption of methane over dinitrogen under ambient pressure. Chemical Communications, 2018, 54, 14104-14107.	4.1	32
27	Reversible formal insertion of CO2 into a remote Câ€“H bond of a ligand in a Ru(ii) complex at room temperature. Chemical Communications, 2012, 48, 5416.	4.1	31
28	Tuning the Reactivity of an Actor Ligand for Tandem CO₂ and Câ€“H Activations: From Spectator Metals to Metal-Free. Journal of the American Chemical Society, 2013, 135, 16175-16183.	13.7	30
29	A Hydride-Shuttle Mechanism for the Catalytic Hydroboration of CO₂. Inorganic Chemistry, 2018, 57, 3054-3060.	4.0	30
30	Syntheses and structures of Li, Fe, and Mo derivatives of N,Nâ€²-bis(2,6-diisopropylphenyl)-o-phenylenediamine. Dalton Transactions, 2013, 42, 10640.	3.3	29
31	Constructing reactive Fe and Co complexes from isolated picolyl-functionalized N-heterocyclic carbenes. Dalton Transactions, 2018, 47, 9889-9896.	3.3	29
32	Syntheses, Characterizations, and Reactivities of 4,5-Diazafluorenide Complexes of Palladium(II) and Rhodium(I). Organometallics, 2008, 27, 3587-3592.	2.3	27
33	Insertion of CO₂ into the carbonâ€“boron bond of a boronic ester ligand. Chemical Communications, 2016, 52, 4148-4151.	4.1	27
34	A luminescent cationic metalâ€“organic framework featuring [Cuâ€“pyrazolate]₃ units for volatile organic compound sensing. Dalton Transactions, 2016, 45, 17087-17090.	3.3	25
35	Reactivity of heavy carbene analogues towards oxidants: a redox active ligand-enabled isolation of a paramagnetic stannylene. Chemical Communications, 2017, 53, 3090-3093.	4.1	23
36	Diplatinum Complexes Supported by Novel Tetradentate Ligands with Quinoline Functionalities for Tandem Câˆ’Cl Activation and Dearomatization. Organometallics, 2008, 27, 6614-6622.	2.3	20

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37	Syntheses, structures and luminescent properties of decorated lanthanide metal-organic frameworks of (E)-4,4â€²-(ethene-1,2-diyl)dibenzoic acids. CrystEngComm, 2011, 13, 1821-1830.	2.6	20
38	Iron complexes of a bidentate picolyl-NHC ligand: synthesis, structure and reactivity. Dalton Transactions, 2016, 45, 13872-13880.	3.3	20
39	Piano-Stool Iron Complexes as Precatalysts for gem-Specific Dimerization of Terminal Alkynes. Organometallics, 2020, 39, 2320-2326.	2.3	20
40	Syntheses, Structures, and Reactivities of Novel Palladium Î²-Diiminatoâ^'Acetate Complexes. Inorganic Chemistry, 2008, 47, 12010-12017.	4.0	19
41	Syntheses, Structures and Reactivities of Rhodium 4,5-Diazafluorene Derivatives. European Journal of Inorganic Chemistry, 2009, 2009, 2083-2089.	2.0	18
42	Construction of Rhodium(I) and Gold(I) Macrocycles by Transferring a Phosphine-Functionalized 4,5-Diazafluorenide Ligand from Its Copper(I) N-Heterocyclic Carbene Complex. Organometallics, 2012, 31, 2184-2192.	2.3	18
43	Recent advances of mesoionic N-heterocyclic olefins. Dalton Transactions, 2022, 51, 9191-9198.	3.3	18
44	Novel dinuclear and trinuclear palladium Î²-diiminate complexes containing amidoâ€“chloro double-bridges. Dalton Transactions, 2008, , 3279.	3.3	17
45	Zwitterionic indenylammonium with carbon-centred reactivity towards reversible CO₂ binding and catalytic reduction. Organic and Biomolecular Chemistry, 2017, 15, 2240-2245.	2.8	15
46	Reactivity of an Unprotected Mesoionic N-Heterocyclic Olefin. Organometallics, 2020, 39, 4115-4122.	2.3	15
47	RuCp* Complexes of Ambidentate 4,5-Diazafluorene Derivatives: From Linkage Isomers to Coordination-Driven Self-Assembly. Organometallics, 2013, 32, 6511-6521.	2.3	13
48	Synthesis and reactivity of Li and TaMe₃ complexes supported by N,Nâ€²-bis(2,6-diisopropylphenyl)-o-phenylenediamido ligands. Dalton Transactions, 2016, 45, 10672-10680.	3.3	13
49	Constructing fused N-heterocycles from unprotected mesoionic N-heterocyclic olefins and organic azides via diazo transfer. Chemical Communications, 2021, 57, 6137-6140.	4.1	13
50	Reaction of Dinuclear Rhodium 4,5-Diazafluorenyl-9-Carboxylate Complexes with H₂ and CO₂. Organometallics, 2014, 33, 2776-2783.	2.3	12
51	Dioxygenation of unprotected mesoionic N-heterocyclic olefins. Chemical Communications, 2021, 57, 10927-10930.	4.1	12
52	[2Feâ€“2S] Cluster Supported by Redox-Active o-Phenylenediamide Ligands and Its Application toward Dinitrogen Reduction. Inorganic Chemistry, 2021, 60, 13811-13820.	4.0	12
53	Aerobic oxidation of C(sp3)â€“H bonds of 4,5-diazafluorene promoted by coordination. Dalton Transactions, 2008, , 5879.	3.3	11
54	Palladium Î²-diiminate chemistry: Reactivity towards monodentate ligands and arylboronic acids. Inorganica Chimica Acta, 2012, 380, 308-321.	2.4	11

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55	Ironâ€Catalyzed gemâ€Specific Dimerization of Terminal Alkynes. Angewandte Chemie, 2017, 129, 6414-6417.	2.0	10
56	Unusual transmetallation-induced formation of a C2-symmetric tetrapallada-macrocycle. Chemical Communications, 2010, 46, 8261.	4.1	9
57	Selective one-pot syntheses of PtIIâ€“CuI heterobimetallic complexes of 4,5-diazafluorenide derivatives. Dalton Transactions, 2013, 42, 16343.	3.3	9
58	Heterodinuclear complexes of 4,5-diazafluorene derivatives displaying Î·5,Î¼2-[N,N] and Î·5,Î¼1-N coordination modes. Dalton Transactions, 2014, 43, 8951.	3.3	9
59	Syntheses and Reactivity of Piano-Stool Iron Complexes of Picolyl-Functionalized N-Heterocyclic Carbene Ligands. Organometallics, 2021, 40, 3943-3951.	2.3	8
60	Direct Synthesis of CdSe Nanocrystals with Electroactive Ligands. Chemistry of Materials, 2016, 28, 4953-4961.	6.7	7
61	Reactivity of Ru(II) and V(III) complexes of diazafluorene derivatives towards Bâ€“H bonds. Journal of Organometallic Chemistry, 2018, 872, 79-86.	1.8	7
62	Syntheses and characterizations of iron complexes of bulky o-phenylenediamide ligand. Dalton Transactions, 2020, 49, 12287-12297.	3.3	5
63	Syntheses of tetraquinolinyl substituted pyrene, diphenylacetylene, and trans-stilbene ligands. Tetrahedron Letters, 2012, 53, 980-982.	1.4	2