

Datong Song

List of Publications by Year in descending order

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docs citations

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times ranked

3957
citing authors

#	ARTICLE	IF	CITATIONS
1	Recent advances of mesoionic N-heterocyclic olefins. Dalton Transactions, 2022, 51, 9191-9198.	1.6	18
2	Dioxygenation of unprotected mesoionic N-heterocyclic olefins. Chemical Communications, 2021, 57, 10927-10930.	2.2	12
3	[2Fe μ -2S] Cluster Supported by Redox-Active <i>o</i> -Phenylenediamide Ligands and Its Application toward Dinitrogen Reduction. Inorganic Chemistry, 2021, 60, 13811-13820.	1.9	12
4	Constructing fused N-heterocycles from unprotected mesoionic N-heterocyclic olefins and organic azides via diazo transfer. Chemical Communications, 2021, 57, 6137-6140.	2.2	13
5	Syntheses and Reactivity of Piano-Stool Iron Complexes of Picolyl-Functionalized N-Heterocyclic Carbene Ligands. Organometallics, 2021, 40, 3943-3951.	1.1	8
6	Reactivity of an Unprotected Mesoionic N-Heterocyclic Olefin. Organometallics, 2020, 39, 4115-4122.	1.1	15
7	Syntheses and characterizations of iron complexes of bulky <i>o</i> -phenylenediamide ligand. Dalton Transactions, 2020, 49, 12287-12297.	1.6	5
8	Piano-Stool Iron Complexes as Precatalysts for gem-Specific Dimerization of Terminal Alkynes. Organometallics, 2020, 39, 2320-2326.	1.1	20
9	Catalytic Alkyne Dimerization without Noble Metals. ACS Catalysis, 2020, 10, 4895-4905.	5.5	39
10	Iron N-heterocyclic carbene complexes in homogeneous catalysis. Chemical Society Reviews, 2020, 49, 1209-1232.	18.7	74
11	Active Iron(II) Catalysts toward gem-Specific Dimerization of Terminal Alkynes. ACS Catalysis, 2019, 9, 810-818.	5.5	39
12	A Hydride-Shuttle Mechanism for the Catalytic Hydroboration of CO ₂ . Inorganic Chemistry, 2018, 57, 3054-3060.	1.9	30
13	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.	6.6	35
14	3D porous metal-organic framework for selective adsorption of methane over dinitrogen under ambient pressure. Chemical Communications, 2018, 54, 14104-14107.	2.2	32
15	Constructing reactive Fe and Co complexes from isolated picolyl-functionalized N-heterocyclic carbenes. Dalton Transactions, 2018, 47, 9889-9896.	1.6	29
16	Spin control in reduced-dimensional chiral perovskites. Nature Photonics, 2018, 12, 528-533.	15.6	371
17	Reactivity of Ru(II) and V(III) complexes of diazafluorene derivatives towards B-H bonds. Journal of Organometallic Chemistry, 2018, 872, 79-86.	0.8	7
18	Zwitterionic indenylammonium with carbon-centred reactivity towards reversible CO ₂ binding and catalytic reduction. Organic and Biomolecular Chemistry, 2017, 15, 2240-2245.	1.5	15

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19	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
20	Iron-Catalyzed <i>gem</i> -Specific Dimerization of Terminal Alkynes. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 6317-6320.	7.2	53
21	Iron-Catalyzed <i>gem</i> -Specific Dimerization of Terminal Alkynes. <i>Angewandte Chemie</i> , 2017, 129, 6414-6417.	1.6	10
22	Chemical reduction of CO ₂ facilitated by C-nucleophiles. <i>Chemical Communications</i> , 2017, 53, 11390-11398.	2.2	38
23	Reactivity of Fe and Ru Complexes of Picolyl-Substituted <i>N</i> -Heterocyclic Carbene Ligand: Diverse Coordination Modes and Small Molecule Binding. <i>Inorganic Chemistry</i> , 2017, 56, 11956-11970.	1.9	32
24	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
25	1,1-Hydroboration and a Borane Adduct of Diphenyldiazomethane: A Potential Prelude to FLP ₂ Chemistry. <i>Angewandte Chemie</i> , 2017, 129, 16815-16819.	1.6	81
26	1,1-Hydroboration and a Borane Adduct of Diphenyldiazomethane: A Potential Prelude to FLP ₂ Chemistry. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 16588-16592.	7.2	93
27	A luminescent cationic metal-organic framework featuring [Cu ^{pyrazolate}] ₃ units for volatile organic compound sensing. <i>Dalton Transactions</i> , 2016, 45, 17087-17090.	1.6	25
28	Iron complexes of a bidentate picolyl-NHC ligand: synthesis, structure and reactivity. <i>Dalton Transactions</i> , 2016, 45, 13872-13880.	1.6	20
29	Synthesis and reactivity of Li and TaMe ₃ complexes supported by N,N'-bis(2,6-diisopropylphenyl)-o-phenylenediamido ligands. <i>Dalton Transactions</i> , 2016, 45, 10672-10680.	1.6	13
30	Direct Synthesis of CdSe Nanocrystals with Electroactive Ligands. <i>Chemistry of Materials</i> , 2016, 28, 4953-4961.	3.2	7
31	Insertion of CO ₂ into the carbon-boron bond of a boronic ester ligand. <i>Chemical Communications</i> , 2016, 52, 4148-4151.	2.2	27
32	Coordination chemistry and applications of versatile 4,5-diazafluorene derivatives. <i>Dalton Transactions</i> , 2016, 45, 32-49.	1.6	36
33	Organocatalysts with carbon-centered activity for CO ₂ reduction with boranes. <i>Chemical Communications</i> , 2015, 51, 11293-11296.	2.2	52
34	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
35	Reaction of Dinuclear Rhodium 4,5-Diazafluorenyl-9-Carboxylate Complexes with H ₂ and CO ₂ . <i>Organometallics</i> , 2014, 33, 2776-2783.	1.1	12
36	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

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37	Heterodinuclear complexes of 4,5-diazafluorene derivatives displaying λ^5, λ^2 -[N,N] and λ^5, λ^1 -N coordination modes. Dalton Transactions, 2014, 43, 8951.	1.6	9
38	Multidentate actor ligands as versatile platforms for small molecule activation and catalysis. RSC Advances, 2013, 3, 11432.	1.7	125
39	Tuning the Reactivity of an Actor Ligand for Tandem CO_2 and C-H Activations: From Spectator Metals to Metal-Free. Journal of the American Chemical Society, 2013, 135, 16175-16183.	6.6	30
40	A Luminescent Metal-Organic Framework as a Turn-On Sensor for DMF Vapor. Angewandte Chemie - International Edition, 2013, 52, 710-713.	7.2	346
41	Syntheses and structures of Li, Fe, and Mo derivatives of N,N' -bis(2,6-diisopropylphenyl)-o-phenylenediamine. Dalton Transactions, 2013, 42, 10640.	1.6	29
42	RuCp^* Complexes of Ambidentate 4,5-Diazafluorene Derivatives: From Linkage Isomers to Coordination-Driven Self-Assembly. Organometallics, 2013, 32, 6511-6521.	1.1	13
43	Selective one-pot syntheses of PtII-CuI heterobimetallic complexes of 4,5-diazafluorene derivatives. Dalton Transactions, 2013, 42, 16343.	1.6	9
44	Reversible formal insertion of CO_2 into a remote C-H bond of a ligand in a Ru(II) complex at room temperature. Chemical Communications, 2012, 48, 5416.	2.2	31
45	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. Organometallics, 2012, 31, 2184-2192.	1.1	18
46	Palladium λ^2 -diimine chemistry: Reactivity towards monodentate ligands and arylboronic acids. Inorganica Chimica Acta, 2012, 380, 308-321.	1.2	11
47	Syntheses of tetraquinolyl substituted pyrene, diphenylacetylene, and trans-stilbene ligands. Tetrahedron Letters, 2012, 53, 980-982.	0.7	2
48	Ester hydrogenation catalyzed by Ru-CNN pincer complexes. Chemical Communications, 2011, 47, 8349.	2.2	138
49	Syntheses, structures and luminescent properties of decorated lanthanide metal-organic frameworks of (E)-4,4'-(ethene-1,2-diyl)dibenzoic acids. CrystEngComm, 2011, 13, 1821-1830.	1.3	20
50	Unusual transmetallation-induced formation of a C_2 -symmetric tetrapallada-macrocycle. Chemical Communications, 2010, 46, 8261.	2.2	9
51	Reversible H_2 splitting between Ru(II) and a remote carbanion in a zwitterionic compound. Chemical Communications, 2010, 46, 556-558.	2.2	32
52	Syntheses, Structures and Reactivities of Rhodium 4,5-Diazafluorene Derivatives. European Journal of Inorganic Chemistry, 2009, 2009, 2083-2089.	1.0	18
53	Palladium-Catalyzed Intramolecular Carboesterification of Olefins. Angewandte Chemie - International Edition, 2009, 48, 9690-9692.	7.2	54
54	Syntheses, Characterizations, and Reactivities of 4,5-Diazafluorene Complexes of Palladium(II) and Rhodium(I). Organometallics, 2008, 27, 3587-3592.	1.1	27

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55	Novel dinuclear and trinuclear palladium $\hat{\text{I}}^2$ -diiminate complexes containing amido $\hat{\text{C}}^{\text{chloro}}$ double-bridges. Dalton Transactions, 2008, , 3279.	1.6	17
56	Synthesis, Characterization, and Reactivity of a Versatile Dinuclear Palladium $\hat{\text{I}}^2$ -Diiminate Complex. Organometallics, 2008, 27, 1290-1298.	1.1	39
57	Aerobic oxidation of C(sp ³) $\hat{\text{C}}^{\text{H}}$ bonds of 4,5-diazafluorene promoted by coordination. Dalton Transactions, 2008, , 5879.	1.6	11
58	Syntheses, Structures, and Reactivities of Novel Palladium $\hat{\text{I}}^2$ -Diiminato $\hat{\text{C}}^{\text{Acetate}}$ Complexes. Inorganic Chemistry, 2008, 47, 12010-12017.	1.9	19
59	Palladium-Catalyzed Olefin Dioxygenation. Journal of the American Chemical Society, 2008, 130, 2962-2964.	6.6	236
60	Diplatinum Complexes Supported by Novel Tetradentate Ligands with Quinoline Functionalities for Tandem $\hat{\text{C}}^{\text{Cl}}$ Activation and Dearomatization. Organometallics, 2008, 27, 6614-6622.	1.1	20
61	Synthesis of Ruthenium Hydride Complexes Containing beta-Aminophosphine Ligands Derived from Amino Acids and their use in the H ₂ -Hydrogenation of Ketones and Imines. Advanced Synthesis and Catalysis, 2005, 347, 571-579.	2.1	98
62	Asymmetric Hydrogenation of Ketones Catalyzed by Ruthenium Hydride Complexes of a Beta-aminophosphine Ligand Derived from Norephedrine. Organometallics, 2004, 23, 5524-5529.	1.1	80
63	Structures of Pt ₂ (CH ₃) ₄ (S(CH ₃) ₂) ₂ and [PtPh ₂ (S(CH ₃) ₂)] _n (n=2, 3). Journal of Organometallic Chemistry, 2002, 648, 302-305.	0.8	35