

# Xigeng Zhou

## List of Publications by Citations

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49  
papers

1,058  
citations

20  
h-index

31  
g-index

50  
ext. papers

1,160  
ext. citations

6.1  
avg, IF

4.18  
L-index

#	Paper	IF	Citations
49	Ln[N(SiMe <sub>3</sub> ) <sub>2</sub> ] <sub>3</sub> -catalyzed cycloaddition of terminal alkynes to azides leading to 1,5-disubstituted 1,2,3-triazoles: new mechanistic features. <i>Chemical Communications</i> , <b>2013</b> , 49, 5589-91	5.8	94
48	Syntheses, structures, and reactivities of homometallic rare-earth-metal multimethyl methylidene and oxo complexes. <i>Chemistry - A European Journal</i> , <b>2011</b> , 17, 2130-7	4.8	63
47	Activation of bis(guanidinate)lanthanide alkyl and aryl complexes on elemental sulfur: synthesis and characterization of bis(guanidinate)lanthanide thiolates and disulfides. <i>Inorganic Chemistry</i> , <b>2010</b> , 49, 5715-22	5.1	55
46	Multiple N≡B Bond Activation: Synthesis and Reactivity of Functionalized Primary Amido Ytterbium Complexes. <i>Organometallics</i> , <b>2007</b> , 26, 1934-1946	3.8	51
45	Homometallic rare-Earth metal phosphinidene clusters: synthesis and reactivity. <i>Angewandte Chemie - International Edition</i> , <b>2014</b> , 53, 1053-6	16.4	48
44	Facile Transformations of Lanthanocene Alkyls to Lanthanocene Thiolate, Sulfide, and Disulfide Derivatives by Reaction with Elemental Sulfur. <i>Organometallics</i> , <b>2005</b> , 24, 1982-1988	3.8	47
43	Synthesis, Structural Characterization, and Reactivity of Mono(amidinate) Rare-Earth-Metal Bis(aminobenzyl) Complexes. <i>Organometallics</i> , <b>2013</b> , 32, 7312-7322	3.8	42
42	Insertion of Isocyanate and Isothiocyanate into the Ln-B Bond of Organolanthanide Phosphides. <i>Organometallics</i> , <b>2011</b> , 30, 5809-5814	3.8	42
41	Synthesis, structures, and reactivity of yttrium alkyl and alkynyl complexes with mixed Tp(Me <sub>2</sub> )/Cp ligands. <i>Inorganic Chemistry</i> , <b>2011</b> , 50, 11813-24	5.1	41
40	Substituent Effects on Isocyanate Insertion into a Lanthanide-Sulfur Bond. Unexpected Construction of a Coordinated Thiazolate Ring. <i>Organometallics</i> , <b>2005</b> , 24, 738-742	3.8	37
39	Methylidene rare-earth-metal complex mediated transformations of C=N, N=N and N-H bonds: new routes to imido rare-earth-metal clusters. <i>Chemistry - A European Journal</i> , <b>2013</b> , 19, 7865-73	4.8	34
38	Synthesis of Substituted Indenes through Iron-Catalyzed Annulation of Benzylic Alcohols with Alkynes. <i>Advanced Synthesis and Catalysis</i> , <b>2011</b> , 353, 2111-2118	5.6	33
37	Switching from Dimerization to Cyclotrimerization Selectivity by FeCl <sub>3</sub> in the Y[N(TMS) <sub>2</sub> ] <sub>3</sub> -Catalyzed Transformation of Terminal Alkynes: A New Strategy for Controlling the Selectivity of Organolanthanide-Based Catalysis. <i>Organometallics</i> , <b>2010</b> , 29, 3530-3534	3.8	32
36	Ln[N(SiMe <sub>3</sub> ) <sub>2</sub> ] <sub>3</sub> -catalyzed cross-diinsertion of C≡N/C≡C into an N-H bond: facile synthesis of 1,2,4-trisubstituted imidazoles from propargylamines and nitriles. <i>Chemistry - A European Journal</i> , <b>2014</b> , 20, 8551-5	4.8	29
35	Lanthanide-catalyzed cyclocarbonylation and cyclothiocarbonylation: a facile synthesis of benzannulated 1,3-diheteroatom five- and six-membered heterocycles. <i>Science China Chemistry</i> , <b>2014</b> , 57, 1117-1125	7.9	26
34	Reactivity of Organolanthanide Derivatives Containing the o-Aminothiophenolate Ligand toward Carbodiimide. <i>Organometallics</i> , <b>2006</b> , 25, 4571-4578	3.8	26
33	Living 3,4-(Co)Polymerization of Isoprene/Myrcene and One-Pot Synthesis of a Polyisoprene Blend Catalyzed by Binuclear Rare-Earth Metal Amidinate Complexes. <i>Chemistry - A European Journal</i> , <b>2019</b> , 25, 2569-2576	4.8	23

32	Lanthanide-Catalyzed Reversible Alkynyl Exchange by Carbon-Carbon Single-Bond Cleavage Assisted by a Secondary Amino Group. <i>Angewandte Chemie - International Edition</i> , <b>2016</b> , 55, 11485-9	16.4	22
31	Cycloamidation of Aminoalkenes with Nitriles: Synthesis of Substituted 2-Imidazolines and Tetrahydropyrimidines. <i>Angewandte Chemie - International Edition</i> , <b>2015</b> , 54, 14452-6	16.4	21
30	Selective insertions of unsaturated organic molecules into the Ln-N or N-H bonds of biscyclopentadienyl lanthanide complexes. <i>Dalton Transactions</i> , <b>2011</b> , 40, 9637-48	4.3	21
29	Rare-Earth-Metal-Catalyzed Addition of Terminal Monoalkynes and Dialkynes with Aryl-Substituted Symmetrical or Unsymmetrical Carbodiimides. <i>Organometallics</i> , <b>2014</b> , 33, 6186-6192	3.8	19
28	Metallic Dysprosium Induced Silyl Radical Reactions: Intermolecular Cyclization and Reduction of Alkynes and Imines. <i>Organometallics</i> , <b>2007</b> , 26, 2499-2500	3.8	18
27	Selective O <sub>2</sub> oxidation of air-sensitive lanthanocene thiolates and thioether chelate. <i>Chemical Communications</i> , <b>2005</b> , 2342-4	5.8	17
26	Small molecule activation by mixed methyl/methylidene rare earth metal complexes. <i>Dalton Transactions</i> , <b>2016</b> , 45, 6641-9	4.3	16
25	Facile Construction of Yttrium Pentasulfides from Yttrium Alkyl Precursors: Synthesis, Mechanism, and Reactivity. <i>Inorganic Chemistry</i> , <b>2017</b> , 56, 2070-2077	5.1	15
24	Isoprene Regioblock Copolymerization: Switching the Regioselectivity by the in Situ Ancillary Ligand Transmetalation of Active Yttrium Species. <i>ACS Catalysis</i> , <b>2018</b> , 8, 4465-4472	13.1	15
23	Facile construction of the guanidine substituent or guanidinate anionic ligand through addition of the adjacent amino group to carbodiimide. <i>Dalton Transactions</i> , <b>2009</b> , 3298-305	4.3	15
22	Synthesis, structure and reactivity of dinuclear rare earth metal bis(o-aminobenzyl) complexes bearing a 1,4-phenylenediamidate co-ligand. <i>Dalton Transactions</i> , <b>2013</b> , 42, 8288-97	4.3	14
21	Reactivity of Tp(Me <sub>2</sub> )-supported yttrium alkyl complexes toward aromatic N-heterocycles: ring-opening or C-C bond formation directed by C-H activation. <i>Chemistry - A European Journal</i> , <b>2014</b> , 20, 867-76	4.8	14
20	An Yttrium Organic cyclo-P Complex and Its Selective Conversions. <i>Inorganic Chemistry</i> , <b>2019</b> , 58, 8451-8459	5.9	12
19	Homometallic Rare-Earth Metal Phosphinidene Clusters: Synthesis and Reactivity. <i>Angewandte Chemie</i> , <b>2014</b> , 126, 1071-1074	3.6	12
18	Facile Synthesis of Organolanthanide Hydrides with Metallic Potassium: Crystal Structures and Reactivity. <i>Organometallics</i> , <b>2011</b> , 30, 4320-4324	3.8	12
17	A simple and practical catalytic electron transfer system composed of TiCl <sub>4</sub> and metallic Yb: application in carbonyl olefination and insight into the mechanism. <i>Organic Chemistry Frontiers</i> , <b>2014</b> , 1, 929-935	5.2	11
16	Versatile Reactivity of $\beta$ -Diketiminato-Supported Yttrium Dialkyl Complex toward Aromatic N-Heterocycles. <i>Organometallics</i> , <b>2014</b> , 33, 7052-7058	3.8	11
15	Reversing Conventional Reactivity of Mixed Oxo/Alkyl Rare-Earth Complexes: Non-Redox Oxygen Atom Transfer. <i>Angewandte Chemie - International Edition</i> , <b>2018</b> , 57, 1062-1067	16.4	10

14	Unprecedented Reaction Mode of Phosphorus in Phosphinidene Rare-Earth Complexes: A Joint Experimental-Theoretical Study. <i>Journal of the American Chemical Society</i> , <b>2018</b> , 140, 102-105	16.4	9
13	Synthesis and Characterization of Substituted Half-Sandwich Cobalt Complexes. <i>Synthesis and Reactivity in Inorganic, Metal Organic, and Nano Metal Chemistry</i> , <b>1998</b> , 28, 1505-1520		9
12	Synthesis, structure and reactivity of guanidinate rare earth metal bis(o-aminobenzyl) complexes. <i>RSC Advances</i> , <b>2017</b> , 7, 29752-29761	3.7	8
11	Intramolecular alkene hydroamination and degradation of amidines: divergent behavior of rare earth metal amidinate intermediates. <i>Catalysis Science and Technology</i> , <b>2018</b> , 8, 5573-5581	5.5	8
10	Synthesis of [(C <sub>5</sub> H <sub>5</sub> Y)( $\eta$ -PzMe <sub>2</sub> )( $\eta$ -PzMe <sub>2</sub> )] <sub>2</sub> and [Y( $\eta$ -PzMe <sub>2</sub> ) <sub>2</sub> ( $\eta$ -PzMe <sub>2</sub> )( $\eta$ -THF)] <sub>2</sub> and the insertion of Me <sub>2</sub> SiO into the Y-N bond. <i>Science Bulletin</i> , <b>2001</b> , 46, 723-726		7
9	Reversing Conventional Reactivity of Mixed Oxo/Alkyl Rare-Earth Complexes: Non-Redox Oxygen Atom Transfer. <i>Angewandte Chemie</i> , <b>2018</b> , 130, 1074-1079	3.6	4
8	Oxidation and chalcogenylative disproportionation of anionic phosphide ligands in yttrium complexes with elemental sulfur and selenium. <i>Dalton Transactions</i> , <b>2019</b> , 48, 10596-10603	4.3	3
7	FeCl <sub>3</sub> ·6H <sub>2</sub> O-catalyzed selective reduction of allylic halides to alkenes with concomitant oxidation of benzylic alcohols to aldehydes. <i>Science China Chemistry</i> , <b>2014</b> , 57, 282-288	7.9	3
6	A luminescent metal-organic framework with an open cubic cage and eight-coordinate cadmium nodes. <i>Science China Chemistry</i> , <b>2010</b> , 53, 2079-2082	7.9	2
5	Synthesis and Studies of the Ln-N Bond Insertion of Methylcyclopentadienyl Lanthanide Pyrazolates. <i>Synthesis and Reactivity in Inorganic, Metal Organic, and Nano Metal Chemistry</i> , <b>2000</b> , 30, 649-662		2
4	Synthesis, Characterization and Studies on the Thermal Stability of Bis(Indenyl)-Praseodymium and Neodymium Complexes with a Ln-S Bond: (C <sub>9</sub> H <sub>7</sub> ) <sub>2</sub> Ln <sup>+</sup> (Thf). <i>Synthesis and Reactivity in Inorganic, Metal Organic, and Nano Metal Chemistry</i> , <b>1998</b> , 28, 1469-1482		2
3	Reactivity of Homoleptic Dianionic $\eta$ -Diketiminato-Supported Yttrium Complexes toward CS <sub>2</sub> : Construction of Neutral or Anionic Dihydropyridinethione. <i>Organometallics</i> , <b>2017</b> , 36, 1699-1706	3.8	1
2	Modification of Yttrium Silyl-Bridged Amide Alkyl Complexes through Si-H/C-H Cross-Dehydrocoupling of Silanes with a Silylamino Ligand: Synthesis, Reactivity, and Mechanism. <i>Chemistry - A European Journal</i> , <b>2020</b> , 26, 7702-7710	4.8	1
1	Sequential Addition of Amines to Nitrile and Carbon-Carbon Multiple Bond: A Route to 7-Amino-5-dibenzo[1,2-a]azepines. <i>Organic Letters</i> , <b>2021</b> , 23, 6946-6950	6.2	1