

Jianhua Cheng

List of Publications by Year in descending order

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53
papers

2,147
citations

279487

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223531

46
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docs citations

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times ranked

1571
citing authors

#	ARTICLE	IF	CITATIONS
1	Copper-Catalyzed Direct Carboxylation of C-H Bonds with Carbon Dioxide. <i>Angewandte Chemie - International Edition</i> , 2010, 49, 8670-8673.	7.2	326
2	Catalytic Boracarboxylation of Alkynes with Diborane and Carbon Dioxide by an N-Heterocyclic Carbene Copper Catalyst. <i>Journal of the American Chemical Society</i> , 2012, 134, 14314-14317.	6.6	256
3	Highly efficient catalytic hydrosilylation of carbon dioxide by an N-heterocyclic carbene copper catalyst. <i>Chemical Communications</i> , 2013, 49, 4782.	2.2	145
4	Synthesis and Reaction of $[(\text{Tp})\text{LnH}_2]_3$ ($\text{Ln} = \text{Y, Er, Tm, Dy, Ho, Sm, Gd}$) <i>Journal of the American Chemical Society</i> , 2010, 132, 2-3.	6.6	100
5	Scorpionate-Supported Dialkyl and Dihydride Lanthanide Complexes: Ligand- and Solvent-Dependent Cluster Hydride Formation. <i>Angewandte Chemie - International Edition</i> , 2008, 47, 4910-4913.	7.2	92
6	Rare Earth Metal Boryl Complexes: Synthesis, Structure, and Insertion of a Carbodiimide and Carbon Monoxide. <i>Angewandte Chemie - International Edition</i> , 2011, 50, 6360-6363.	7.2	75
7	Heteroleptic Tm(II) Complexes: One More Success for Trofimenko's Scorpionates. <i>Journal of the American Chemical Society</i> , 2008, 130, 1544-1545.	6.6	66
8	A Molecular Barium Hydrido Complex Stabilized by a Superbulky Hydrotris(pyrazolyl)borate Ligand. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 16650-16653.	7.2	63
9	Superbulky Pentaaryl cyclopentadienyl Ligands: Isolation of the Full Range of Half-sandwich Heavy Alkaline Earth Metal Hydrides. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 4356-4360.	7.2	62
10	Facile Preparation of a Scandium Terminal Imido Complex Supported by a Phosphazene Ligand. <i>Organometallics</i> , 2013, 32, 5523-5529.	1.1	55
11	Variable nuclearity scorpionate-supported lanthanide polyhydrides: $[(\text{TpR})\text{LnH}_2]_n$ ($n=3, 4$ and 6). <i>Journal of Organometallic Chemistry</i> , 2010, 695, 2696-2702.	0.8	52
12	Rare Earth Polyhydride Complexes Bearing Bis(phosphinophenyl)amido Pincer Ligands. <i>Angewandte Chemie - International Edition</i> , 2011, 50, 1857-1860.	7.2	50
13	Binuclear rare-earth polyhydride complexes bearing both terminal and bridging hydride ligands. <i>Chemical Science</i> , 2012, 3, 2230.	3.7	38
14	$\text{M}_4(\text{CH}_2)_4$ Cubane-Type Rare Earth Methylidene Complexes: Unique Reactivity toward Unsaturated C=O, C=N, and C=S Bonds. <i>Chemistry - A European Journal</i> , 2012, 18, 15079-15085.	1.7	35
15	Lutetium-Methanediide-Alkyl Complexes: Synthesis and Chemistry. <i>Chemistry - A European Journal</i> , 2014, 20, 15493-15498.	1.7	35
16	Cationic terminal hydrido rare earth complexes bearing an amidinate ancillary ligand. <i>Chemical Communications</i> , 2012, 48, 814-816.	2.2	32
17	Mononuclear calcium complex as effective catalyst for alkenes hydrogenation. <i>Chemical Communications</i> , 2020, 56, 5162-5165.	2.2	31
18	Synthesis and characterization of $(\text{C}_5\text{H}_9\text{C}_9\text{H}_6)_2\text{Yb}(\text{THF})_2(\text{II})$ (1) and $[(\text{C}_5\text{H}_9\text{C}_5\text{H}_4)_2\text{Yb}(\text{THF})]_2\text{O}_2$ (2), and ring-opening polymerization of lactones with 1. <i>Journal of Organometallic Chemistry</i> , 2002, 650, 84-90.	0.8	28

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19	Reactions of Scorpionate-Anchored Yttrium and Lutetium Dialkyls with Terminal Alkynes: From Bimetallic Complexes with Bridging Enynediyl Ligands to Monomeric Terminal Dialkynyl Complexes. <i>Organometallics</i> , 2010, 29, 4950-4965.	1.1	26
20	Ring-opening polymerization and block copolymerization of L-lactide with divalent samarocene complex. <i>Journal of Polymer Science Part A</i> , 2003, 41, 2667-2675.	2.5	24
21	A Molecular Barium Hydrido Complex Stabilized by a Super-Bulky Hydrotris(pyrazolyl)borate Ligand. <i>Angewandte Chemie</i> , 2017, 129, 16877-16880.	1.6	24
22	Aluminum chelates supported by η^2 -quinolyl enolate ligands: synthesis and ROP of μ -CL. <i>Dalton Transactions</i> , 2016, 45, 9088-9096.	1.6	22
23	Super-Bulky Penta-arylcyclopentadienyl Ligands: Isolation of the Full Range of Half-Sandwich Heavy Alkaline-Earth Metal Hydrides. <i>Angewandte Chemie</i> , 2019, 131, 4400-4404.	1.6	21
24	Reversible addition and hydrogenation of 1,1-diphenylethylene with a barium complex. <i>Dalton Transactions</i> , 2019, 48, 8565-8568.	1.6	20
25	Calcium-Catalyzed Dehydrogenative Silylation of Aromatic Ethers with Hydrosilane. <i>ACS Catalysis</i> , 2021, 11, 2041-2046.	5.5	20
26	Neutral binuclear rare-earth metal complexes with four η^2 -bridging hydrides. <i>Chemical Communications</i> , 2015, 51, 5063-5065.	2.2	19
27	Four- and five-coordinate aluminum complexes supported by <i>N,O</i> -bidentate η^2 -pyrazolyl enolate ligands: synthesis, structure and application in ROP of μ -caprolactone and lactide. <i>Dalton Transactions</i> , 2019, 48, 12315-12325.	1.6	18
28	Monomeric thorium dihydrido complexes: versatile precursors to actinide metallacycles. <i>Chemical Communications</i> , 2019, 55, 8560-8563.	2.2	17
29	Organolanthanides with 3-(2-pyridylmethyl) indenyl ligands: synthesis, crystal structures and catalytic activities of divalent complexes for μ -caprolactone polymerization. <i>Journal of Organometallic Chemistry</i> , 2004, 689, 2646-2653.	0.8	15
30	Hydrogenolysis and Protonation of Polymetallic Lutetium Methylidene and Methyl Complexes. <i>Organometallics</i> , 2013, 32, 4142-4148.	1.1	14
31	Half-sandwich scandium boryl complexes bearing a silylene-linked cyclopentadienyl-amido ligand. <i>Dalton Transactions</i> , 2014, 43, 14215-14218.	1.6	14
32	Insights into the Formation Process of Yttrium-Aluminum Bimetallic Alkyl Complexes Supported by a Bulky Phosphazene Ligand. <i>Organometallics</i> , 2018, 37, 971-978.	1.1	13
33	Selective homo- and cross-desilacoupling of aryl and benzyl primary silanes catalyzed by a barium complex. <i>Dalton Transactions</i> , 2020, 49, 8340-8346.	1.6	11
34	Syntheses and crystal structures of bis(tetrahydrofurfurylindenyl) lanthanocene chlorides ($C_4H_7OCH_2C_9H_6$) $_2LnCl$ (Ln=La, Lu). <i>Polyhedron</i> , 2004, 23, 1075-1080.	1.0	10
35	Rare-earth dialkyl and dihydride complexes bearing monoanionic ancillary ligands. <i>Science China Chemistry</i> , 2011, 54, 2032-2037.	4.2	10
36	Binuclear Scandium Initiators for the Syndiospecific Triblock Copolymerization of Styrene with μ -Caprolactone. <i>Macromolecules</i> , 2020, 53, 3332-3338.	2.2	10

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37	Norbornenyl-based amphiphilic ABA-triblock azobenzene copolymers: Synthesis, photoresponsive and self-assembly properties. <i>Polymer</i> , 2021, 213, 123310.	1.8	10
38	Regioselective C-H Alkylation of Aromatic Ethers with Alkenes by a Half-Sandwich Calcium Catalyst. <i>ACS Catalysis</i> , 2022, 12, 7877-7885.	5.5	10
39	Half-sandwich scandium dibenzyl complexes bearing penta- or tetra-arylcyclopentadienyl ligands: synthesis, structure and syndiospecific styrene polymerization activity. <i>New Journal of Chemistry</i> , 2020, 44, 17333-17340.	1.4	9
40	Molecular Thorium Trihydrido Clusters Stabilized by Cyclopentadienyl Ligands. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 11250-11255.	7.2	9
41	Scandium and lanthanum hydride complexes stabilized by super-bulky penta-arylcyclopentadienyl ligands. <i>Chemical Communications</i> , 2021, 57, 7766-7769.	2.2	9
42	Star polymerization of norbornene derivatives using a tri-functionalized Blechert's olefin metathesis catalyst. <i>Polymer Chemistry</i> , 2020, 11, 1735-1741.	1.9	7
43	A mononuclear divalent ytterbium hydrido complex supported by a super-bulky scorpionate ligand. <i>Chemical Communications</i> , 2021, 57, 10047-10050.	2.2	7
44	Thorium(IV) trialkyl complexes of non-carbocyclic ligands as highly active isoprene polymerisation catalysts. <i>Dalton Transactions</i> , 2019, 48, 11706-11714.	1.6	6
45	Barium tetraalkylaluminate complexes supported by the super-bulky hydrotris(pyrazolyl)borate ligand. <i>Dalton Transactions</i> , 2019, 48, 17919-17924.	1.6	6
46	Research Progress of Molecular Alkaline-Earth Metal Hydrides. <i>Chinese Journal of Organic Chemistry</i> , 2019, 39, 1557.	0.6	6
47	Calcium Mediated C-H Silylation of Aromatic Heterocycles with Hydrosilanes. <i>ChemCatChem</i> , 2022, 14, .	1.8	6
48	Synthesis and micellar property of amphiphilic brush-arm star copolymers via living ROMP. <i>Polymer</i> , 2021, 229, 123951.	1.8	5
49	CO, CO ₂ and CS ₂ activation by divalent ytterbium hydrido complexes. <i>Chemical Communications</i> , 2022, 58, 1362-1365.	2.2	4
50	Molecular Thorium Trihydrido Clusters Stabilized by Cyclopentadienyl Ligands. <i>Angewandte Chemie</i> , 2020, 132, 11346-11351.	1.6	2
51	One-shot synthesis of star gradient copolymers with controllable graft density. <i>Polymer Chemistry</i> , 2021, 12, 2651-2657.	1.9	2
52	Trinuclear scandium methylidyne complexes stabilized by pentamethylcyclopentadienyl ligands. <i>Chemical Communications</i> , 2021, 57, 6436-6439.	2.2	2
53	Progress of Application of Ring-Opening Metathesis Polymerization (ROMP) in the Synthesis of Star Polymers. <i>Acta Chimica Sinica</i> , 2022, 80, 229.	0.5	1