

Jaeheung Cho

List of Publications by Year in descending order

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91
papers

3,995
citations

101384

36
h-index

128067

60
g-index

102
all docs

102
docs citations

102
times ranked

3338
citing authors

#	ARTICLE	IF	CITATIONS
1	Structure and reactivity of a mononuclear non-haem iron(III)â€“peroxo complex. <i>Nature</i> , 2011, 478, 502-505.	13.7	292
2	Mononuclear Metalâ€“O ₂ Complexes Bearing Macrocyclic <i>N</i> -Tetramethylated Cyclam Ligands. <i>Accounts of Chemical Research</i> , 2012, 45, 1321-1330.	7.6	187
3	Intrinsic properties and reactivities of mononuclear nonheme ironâ€“oxygen complexes bearing the tetramethylcyclam ligand. <i>Coordination Chemistry Reviews</i> , 2013, 257, 381-393.	9.5	157
4	Geometric and electronic structure and reactivity of a mononuclear â€“side-onâ€™ nickel(III)â€“peroxo complex. <i>Nature Chemistry</i> , 2009, 1, 568-572.	6.6	153
5	Synthesis, Structural, and Spectroscopic Characterization and Reactivities of Mononuclear Cobalt(III)â€“Peroxo Complexes. <i>Journal of the American Chemical Society</i> , 2010, 132, 16977-16986.	6.6	124
6	Fluorescent Zinc Sensor with Minimized Proton-Induced Interferences: Photophysical Mechanism for Fluorescence Turn-On Response and Detection of Endogenous Free Zinc Ions. <i>Inorganic Chemistry</i> , 2012, 51, 8760-8774.	1.9	119
7	An â€œEnd-Onâ€•Chromium(III)-Superoxo Complex: Crystallographic and Spectroscopic Characterization and Reactivity in Câ€“H Bond Activation of Hydrocarbons. <i>Journal of the American Chemical Society</i> , 2010, 132, 5958-5959.	6.6	116
8	Structural Characterization and Remarkable Axial Ligand Effect on the Nucleophilic Reactivity of a Nonheme Manganese(III)â€“Peroxo Complex. <i>Angewandte Chemie - International Edition</i> , 2009, 48, 4150-4153.	7.2	115
9	Comparison of High-Spin and Low-Spin Nonheme Fe ^{III} â€“OOH Complexes in Oâ€“O Bond Homolysis and H-Atom Abstraction Reactivities. <i>Journal of the American Chemical Society</i> , 2013, 135, 3286-3299.	6.6	105
10	Water as an Oxygen Source in the Generation of Mononuclear Nonheme Iron(IV) Oxo Complexes. <i>Angewandte Chemie - International Edition</i> , 2009, 48, 1803-1806.	7.2	98
11	Ligand Topology Effect on the Reactivity of a Mononuclear Nonheme Iron(IV)-Oxo Complex in Oxygenation Reactions. <i>Journal of the American Chemical Society</i> , 2011, 133, 11876-11879.	6.6	94
12	Mononuclear nickel(II)-superoxo and nickel(III)-peroxo complexes bearing a common macrocyclic TMC ligand. <i>Chemical Science</i> , 2013, 4, 1502.	3.7	93
13	Water as an Oxygen Source: Synthesis, Characterization, and Reactivity Studies of a Mononuclear Nonheme Manganese(IV) Oxo Complex. <i>Angewandte Chemie - International Edition</i> , 2010, 49, 8190-8194.	7.2	90
14	A mononuclear nonheme iron(III)â€“peroxo complex binding redox-inactive metal ions. <i>Chemical Science</i> , 2013, 4, 3917.	3.7	79
15	Electronâ€“Transfer Reduction of Dinuclear Copper Peroxo and Bisâ€“Oxo Complexes Leading to the Catalytic Fourâ€“Electron Reduction of Dioxygen to Water. <i>Chemistry - A European Journal</i> , 2012, 18, 1084-1093.	1.7	78
16	Chromium(IV)â€“Peroxo Complex Formation and Its Nitric Oxide Dioxygenase Reactivity. <i>Journal of the American Chemical Society</i> , 2012, 134, 15269-15272.	6.6	71
17	A fluorescence turn-on H ₂ O ₂ probe exhibits lysosome-localized fluorescence signals. <i>Chemical Communications</i> , 2012, 48, 5449.	2.2	71
18	A Mononuclear Non-Heme High-Spin Iron(III)â€“Hydroperoxo Complex as an Active Oxidant in Sulfoxidation Reactions. <i>Journal of the American Chemical Society</i> , 2013, 135, 8838-8841.	6.6	71

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19	A Chromium(III)â€“Superoxo Complex in Oxygen Atom Transfer Reactions as a Chemical Model of Cysteine Dioxygenase. <i>Journal of the American Chemical Society</i> , 2012, 134, 11112-11115.	6.6	66
20	Chromium(v)-oxo and chromium(iii)-superoxo complexes bearing a macrocyclic TMC ligand in hydrogen atom abstraction reactions. <i>Chemical Science</i> , 2011, 2, 2057.	3.7	61
21	A Bis(1/4-alkylperoxy)nickel(II) Complex as a Reaction Intermediate for the Oxidation of the Methyl Groups of the Me ₂ -tpa Ligand to Carboxylate and Alkoxide Ligands. <i>Angewandte Chemie - International Edition</i> , 2004, 43, 3300-3303.	7.2	56
22	Reactivity of a cobalt(III)-peroxy complex in oxidative nucleophilic reactions. <i>Journal of Inorganic Biochemistry</i> , 2008, 102, 2155-2159.	1.5	56
23	Mechanistic Insights into Tunable Metal-Mediated Hydrolysis of Amyloid- β^2 Peptides. <i>Journal of the American Chemical Society</i> , 2017, 139, 2234-2244.	6.6	55
24	Mechanistic Insights into the C-H Bond Activation of Hydrocarbons by Chromium(IV) Oxo and Chromium(III) Superoxo Complexes. <i>Inorganic Chemistry</i> , 2014, 53, 645-652.	1.9	52
25	XAS and DFT Investigation of Mononuclear Cobalt(III) Peroxo Complexes: Electronic Control of the Geometric Structure in CoO ₂ versus NiO ₂ Systems. <i>Inorganic Chemistry</i> , 2011, 50, 614-620.	1.9	51
26	Syntheses, isolation, and structures of nickel(II) and copper(II) coordination polymers with a tetraaza macrocyclic ligand. <i>Inorganica Chimica Acta</i> , 2001, 317, 252-258.	1.2	50
27	Solid-state and solvent-free synthesis of azines, pyrazoles, and pyridazinones using solid hydrazine. <i>Tetrahedron Letters</i> , 2013, 54, 1384-1388.	0.7	50
28	Spectroscopic Characterization and Reactivity Studies of a Mononuclear Nonheme Mn(III)â€“Hydroperoxy Complex. <i>Journal of the American Chemical Society</i> , 2014, 136, 12229-12232.	6.6	49
29	Synthesis, characterization and reactivity of non-heme 1st row transition metal-superoxo intermediates. <i>Coordination Chemistry Reviews</i> , 2019, 382, 126-144.	9.5	48
30	Monomeric and polymeric copper(II) hexaaza macrocyclic complexes with btc anions (btc=1,2,4,5-benzenetetracarboxylic acid). <i>Inorganica Chimica Acta</i> , 2003, 342, 305-310.	1.2	47
31	Mononuclear Manganeseâ€“Peroxo and Bis(1/4-oxo)dimanganese Complexes Bearing a Common N-Methylated Macrocyclic Ligand. <i>Chemistry - A European Journal</i> , 2013, 19, 14119-14125.	1.7	44
32	Sequential Reaction Intermediates in Aliphatic C-H Bond Functionalization Initiated by a Bis(1/4-oxo)nickel(III) Complex. <i>Inorganic Chemistry</i> , 2006, 45, 2873-2885.	1.9	39
33	Spectroscopic and computational characterization of CuIIâ€“OOR (R = H or cumyl) complexes bearing a Me ₆ -tren ligand. <i>Dalton Transactions</i> , 2011, 40, 2234.	1.6	39
34	Steric Effect on the Nucleophilic Reactivity of Nickel(III) Peroxo Complexes. <i>Inorganic Chemistry</i> , 2015, 54, 6176-6183.	1.9	39
35	Reactivity of a Cobalt(III)â€“Hydroperoxy Complex in Electrophilic Reactions. <i>Inorganic Chemistry</i> , 2016, 55, 12391-12399.	1.9	38
36	Polymeric nickel(II) and copper(II) complexes with btc ²⁻ ions as bridging ligands (btc ²⁻ =1,2,4,5-benzenetetracarboxylic acid dianion). <i>Inorganic Chemistry Communication</i> , 2003, 6, 474-477.	1.8	37

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37	Synthesis of Azines in Solid State: Reactivity of Solid Hydrazine with Aldehydes and Ketones. <i>Organic Letters</i> , 2011, 13, 6386-6389.	2.4	34
38	Isolation and characterization of the first stable bicarbonato complex in a nickel(ii) system: identification of unusual monodentate coordination. <i>Chemical Communications</i> , 2004, , 1796-1797.	2.2	33
39	Synthesis, Characterization, and Reactivity of Cobalt(III)â€“Oxygen Complexes Bearing a Macrocyclic Nâ€“tetramethylated Cyclam Ligand. <i>Chemistry - A European Journal</i> , 2013, 19, 14112-14118.	1.7	33
40	An Iridium(III) Complex as a Photoactivatable Tool for Oxidation of Amyloidogenic Peptides with Subsequent Modulation of Peptide Aggregation. <i>Chemistry - A European Journal</i> , 2017, 23, 1645-1653.	1.7	33
41	Nucleophilic reactivity of copper(II)â€“alkylperoxo complexes. <i>Chemical Communications</i> , 2017, 53, 9328-9331.	2.2	32
42	A Mononuclear Alkylperoxocopper(II) Complex as a Reaction Intermediate in the Oxidation of the Methyl Group of the Supporting Ligand. <i>Angewandte Chemie - International Edition</i> , 2006, 45, 6911-6914.	7.2	30
43	Oxidation Reactivity of Bis(1/4â€“oxo) Dinickel(III) Complexes: Arene Hydroxylation of the Supporting Ligand. <i>Angewandte Chemie - International Edition</i> , 2009, 48, 3304-3307.	7.2	29
44	Structural, Spectroscopic, and Electrochemical Properties of a Series of High-Spin Thiolatonicel(II) Complexes. <i>Inorganic Chemistry</i> , 2007, 46, 11308-11315.	1.9	28
45	Isolation and structural characterization of the elusive 1â€“%:â€“%1 adduct of hydrazine and carbon dioxide. <i>Chemical Communications</i> , 2011, 47, 11219.	2.2	28
46	New Synthetic Routes to a Disulfidodnickel(II) Complex: Characterization and Reactivity of a Ni ₂ (μ - η^2 -S ₂) ₂ Core. <i>Inorganic Chemistry</i> , 2008, 47, 3931-3933.	1.9	27
47	Preparation and Reactivity of a Nickel Dihydride Complex. <i>Angewandte Chemie - International Edition</i> , 2011, 50, 10578-10580.	7.2	27
48	Dinuclear Iron(III) and Nickel(II) Complexes Containing $\langle i \rangle \text{Ni} \langle /i \rangle \langle i \rangle \text{2} \langle /i \rangle \langle i \rangle \text{Pyridylmethyl} \langle /i \rangle \langle i \rangle \text{N} \langle /i \rangle \langle i \rangle \text{2} \langle /i \rangle \langle i \rangle \text{hydroxyethyl} \langle /i \rangle \text{ethylenediamine}$: Catalytic Oxidation and Magnetic Properties. <i>Chemistry - A European Journal</i> , 2017, 23, 3023-3033.		26
49	Structure and Reactivity of a Mononuclear Nonheme Manganese(III)â€“Iodosylarene Complex. <i>Journal of the American Chemical Society</i> , 2018, 140, 16037-16041.	6.6	26
50	Nucleophilic reactivity of a copper(II)-hydroperoxo complex. <i>Communications Chemistry</i> , 2019, 2, .	2.0	26
51	Combined Experimental and Theoretical Approach To Understand the Reactivity of a Mononuclear Cu(II)â€“Hydroperoxo Complex in Oxygenation Reactions. <i>Journal of Physical Chemistry A</i> , 2008, 112, 13102-13108.	1.1	25
52	Tuning Structures and Properties for Developing Novel Chemical Tools toward Distinct Pathogenic Elements in Alzheimerâ€™s Disease. <i>ACS Chemical Neuroscience</i> , 2018, 9, 800-808.	1.7	25
53	Dynamic Transformation of a Ag ⁺ -Coordinated Supramolecular Nanostructure from a 1D Needle to a 1D Helical Tube via a 2D Ribbon Accompanying the Conversion of Complex Structures. <i>Journal of the American Chemical Society</i> , 2021, 143, 3113-3123.	6.6	24
54	Twist to Boost: Circumventing Quantum Yield and Dissymmetry Factor Trade-Off in Circularly Polarized Luminescence. <i>Inorganic Chemistry</i> , 2021, 60, 7738-7752.	1.9	24

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55	Mechanistic insights into the reactions of hydride transfer versus hydrogen atom transfer by a trans-dioxoruthenium(ν) complex. Dalton Transactions, 2015, 44, 7634-7642.	1.6	21
56	Tuning the Reactivity of Chromium(III)-Superoxo Species by Coordinating Axial Ligands. Inorganic Chemistry, 2015, 54, 10513-10520.	1.9	21
57	Oxidation of Naphthalene with a Manganese(IV) Bis(hydroxo) Complex in the Presence of Acid. Angewandte Chemie - International Edition, 2018, 57, 7764-7768.	7.2	21
58	Distinct Reactivity of a Mononuclear Peroxocobalt(III) Species toward Activation of Nitriles. Journal of the American Chemical Society, 2017, 139, 10960-10963.	6.6	19
59	Trans-bis(dicyanamido)nickel(II) complexes with polyaza macrocyclic ligands. Transition Metal Chemistry, 2002, 27, 429-432.	0.7	16
60	Strategic Design of 2,2'-Bipyridine Derivatives to Modulate Metal β -Amyloid- β Aggregation. Inorganic Chemistry, 2017, 56, 6695-6705.	1.9	16
61	An infinite 1D hydrogen-bonded polymer built from an azido cobalt(III) tetraaza macrocyclic complex. Inorganic Chemistry Communication, 2003, 6, 284-287.	1.8	15
62	Aggregation of an n - β -Molecule Induces Fluorescence Turn-on. Journal of Physical Chemistry C, 2017, 121, 11907-11914.	1.5	15
63	Artificial Control of Cell Signaling Using a Photocleavable Cobalt(III) β -Nitrosyl Complex. Angewandte Chemie - International Edition, 2019, 58, 10126-10131.	7.2	15
64	Direct Synthesis of Imines ν via Solid State Reactions of Carbamates with Aldehydes. Advanced Synthesis and Catalysis, 2013, 355, 389-394.	2.1	13
65	Highly stereoselective directed reactions and an efficient synthesis of azafuranoses from a chiral aziridine. Organic and Biomolecular Chemistry, 2013, 11, 3629.	1.5	13
66	Helicity-driven chiral self-sorting supramolecular polymerization with Ag ⁺ : right- and left-helical aggregates. Chemical Science, 2022, 13, 3109-3117.	3.7	13
67	A high-spin nickel(ii) borohydride complex in dehalogenation. Inorganic Chemistry Frontiers, 2016, 3, 157-163.	3.0	12
68	Controlled Regulation of the Nitrile Activation of a Peroxocobalt(III) Complex with Redox-Inactive Lewis Acidic Metals. Journal of the American Chemical Society, 2021, 143, 11382-11392.	6.6	12
69	Structures and magnetic properties of catena-($\frac{1}{4}$ -MO ₄ O ₂) β [Ni(II)(L)] β ·5H ₂ O (M=Cr, Mo; Tj ETQq1 1 0.784314 rgBT /Overlock 10 163-167.	1.2	11
70	Redox-Inactive Metal Ions That Enhance the Nucleophilic Reactivity of an Alkylperoxocopper(II) Complex. Inorganic Chemistry, 2020, 59, 9938-9943.	1.9	11
71	Stereochemistry of metal tetramethylcyclam complexes directed by an unexpected anion effect. Dalton Transactions, 2017, 46, 13166-13170.	1.6	10
72	Spectroscopic and Computational Studies of a Series of High-Spin Ni(II) Thiolate Complexes. Inorganic Chemistry, 2010, 49, 6535-6544.	1.9	9

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73	Proton Switch in the Secondary Coordination Sphere to Control Catalytic Events at the Metal Center: Biomimetic Oxo Transfer Chemistry of Nickel Amidate Complex. <i>Chemistry - A European Journal</i> , 2021, 27, 4700-4708.	1.7	9
74	A functional model for quercetin 2,4-dioxygenase: Geometric and electronic structures and reactivity of a nickel(II) flavonolate complex. <i>Journal of Inorganic Biochemistry</i> , 2022, 226, 111632.	1.5	9
75	Nucleophilic reactivity of a mononuclear cobalt(III)-bis(<i>tert</i> -butylperoxo) complex. <i>Chemical Communications</i> , 2020, 56, 9449-9452.	2.2	8
76	One-pot solvent-free reductive amination with a solid ammonium carbamate salt from CO ₂ and amine. <i>RSC Advances</i> , 2014, 4, 46203-46207.	1.7	7
77	Investigating Superoxide Transfer through a μ -1,2-O ₂ Bridge between Nonheme Ni(III)-Peroxo and Mn(II) Species by DFT Methods to Bridge Theoretical and Experimental Views. <i>Journal of Physical Chemistry Letters</i> , 2014, 5, 2437-2442.	2.1	7
78	Tailoring Hydrophobic Interactions between Probes and Amyloid- β Peptides for Fluorescent Monitoring of Amyloid- β Aggregation. <i>ACS Omega</i> , 2018, 3, 5141-5154.	1.6	7
79	Hydride-Transfer Reaction to a Mononuclear Manganese(III) Iodosylarene Complex. <i>Inorganic Chemistry</i> , 2021, 60, 7612-7616.	1.9	7
80	Peroxo-cobalt(III) species activates nitriles via a superoxocobalt(II) diradical state. <i>Dalton Transactions</i> , 2020, 49, 2819-2826.	1.6	6
81	Spectroscopic Evidence for a Cobalt-Bound Peroxyhemiacetal Intermediate. <i>JACS</i> , 2021, 143, 1594-1600.	3.6	6
82	Structure and Reactivity of Nonporphyrinic Terminal Manganese(IV)-Hydroxide Complexes in the Oxidative Electrophilic Reaction. <i>Inorganic Chemistry</i> , 2022, 61, 4292-4301.	1.9	6
83	Reactivity difference in the oxidative nucleophilic reaction of peroxonickel(III) intermediates with open-chain and macrocyclic systems. <i>Inorganic Chemistry Frontiers</i> , 2019, 6, 2112-2117.	3.0	5
84	Theoretical Study on the Aliphatic C-H Bond Activation by a Mononuclear Manganese(III) Iodosylbenzene Complex. <i>Bulletin of the Korean Chemical Society</i> , 2021, 42, 1033-1036.	1.0	5
85	Artificial Control of Cell Signaling Using a Photocleavable Cobalt(III)-Nitrosyl Complex. <i>Angewandte Chemie</i> , 2019, 131, 10232-10237.	1.6	4
86	Synthesis and crystal structure of nickel(II) complexes with bis(5-methyl-2-thiophenemethyl)(2-pyridylmethyl)amine. <i>Polyhedron</i> , 2010, 29, 446-450.	1.0	3
87	Mechanistic insight into hydroxamate transfer reaction mimicking the inhibition of zinc-containing enzymes. <i>Chemical Science</i> , 2020, 11, 9017-9021.	3.7	2
88	Challenges of Measuring Soluble Mn(III) Species in Natural Samples. <i>Molecules</i> , 2022, 27, 1661.	1.7	2
89	Spectroscopic and Computational Studies of a μ -1,2-O ₂ -Disulfido-Bridged Dinickel(II) Species, $[(\text{PhTt}^{\text{tBu}}\text{Ni})_2(\mu\text{-}1,2\text{-O}_2\text{-}\mu\text{-S}_2)]$: Comparison of Side-On Disulfido and Peroxo Bonding in $(\text{Ni}^{\text{II}})_2$ and $(\text{Cu}^{\text{II}})_2$ Species. <i>Inorganic Chemistry</i> , 2010, 49, 3113-3120.	1.9	1
90	Frontispiece: Dinuclear Iron(III) and Nickel(II) Complexes Containing $\text{N}(\text{C}_2\text{H}_4\text{Pyridylmethyl})_2\text{N}(\text{C}_2\text{H}_4\text{hydroxyethyl})_2$ ethylenediamine: Catalytic Oxidation and Magnetic Properties. <i>Chemistry - A European Journal</i> , 2017, 23, .		0

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91	Oxidation of Naphthalene with a Manganese(IV) Bis(hydroxo) Complex in the Presence of Acid. <i>Angewandte Chemie</i> , 2018, 130, 7890-7894.	1.6	0