Jaeheung Cho

List of Publications by Year
in descending order

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	A functional model for quercetin 2,4-dioxygenase: Geometric and electronic structures and reactivity of a nickel(II) flavonolate complex. Journal of Inorganic Biochemistry, 2022, 226, 111632.	1.5	9
2	Helicity-driven chiral self-sorting supramolecular polymerization with Ag⁺: right- and left-helical aggregates. Chemical Science, 2022, 13, 3109-3117.	3.7	13
3	Structure and Reactivity of Nonporphyrinic Terminal Manganese(IV)â€“Hydroxide Complexes in the Oxidative Electrophilic Reaction. Inorganic Chemistry, 2022, 61, 4292-4301.	1.9	6
4	Challenges of Measuring Soluble Mn(III) Species in Natural Samples. Molecules, 2022, 27, 1661.	1.7	2
5	Proton Switch in the Secondary Coordination Sphere to Control Catalytic Events at the Metal Center: Biomimetic Oxo Transfer Chemistry of Nickel Amidate Complex. Chemistry - A European Journal, 2021, 27, 4700-4708.	1.7	9
6	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. Journal of the American Chemical Society, 2021, 143, 3113-3123.	6.6	24
7	Twist to Boost: Circumventing Quantum Yield and Dissymmetry Factor Trade-Off in Circularly Polarized Luminescence. Inorganic Chemistry, 2021, 60, 7738-7752.	1.9	24
8	Hydride-Transfer Reaction to a Mononuclear Manganese(III) Iodosylarene Complex. Inorganic Chemistry, 2021, 60, 7612-7616.	1.9	7
9	Theoretical Study on the Aliphatic Câ”€H Bond Activation by a Mononuclear Manganese(III) Iodosylbenzene Complex. Bulletin of the Korean Chemical Society, 2021, 42, 1033-1036.	1.0	5
10	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
11	Spectroscopic Evidence for a Cobalt-Bound Peroxyhemiacetal Intermediate. Jacs Au, 2021, 1, 1594-1600.	3.6	6
12	Peroxocobalt(<scp>iii</scp>) species activates nitrilesviaa superoxocobalt(<scp>ii</scp>) diradical state. Dalton Transactions, 2020, 49, 2819-2826.	1.6	6
13	Nucleophilic reactivity of a mononuclear cobalt(<scp>iii</scp>)â€“bis(tert-butylperoxo) complex. Chemical Communications, 2020, 56, 9449-9452.	2.2	8
14	Mechanistic insight into hydroxamate transfer reaction mimicking the inhibition of zinc-containing enzymes. Chemical Science, 2020, 11, 9017-9021.	3.7	2
15	Redox-Inactive Metal Ions That Enhance the Nucleophilic Reactivity of an Alkylperoxocopper(II) Complex. Inorganic Chemistry, 2020, 59, 9938-9943.	1.9	11
16	Nucleophilic reactivity of a copper(II)-hydroperoxo complex. Communications Chemistry, 2019, 2, .	2.0	26
17	Reactivity difference in the oxidative nucleophilic reaction of peroxonickel(<scp>iii</scp>) intermediates with open-chain and macrocyclic systems. Inorganic Chemistry Frontiers, 2019, 6, 2112-2117.	3.0	5
18	Artificial Control of Cell Signaling Using a Photocleavable Cobalt(III)â€“Nitrosyl Complex. Angewandte Chemie, 2019, 131, 10232-10237.	1.6	4

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19	Artificial Control of Cell Signaling Using a Photocleavable Cobalt(III)â€“Nitrosyl Complex. Angewandte Chemie - International Edition, 2019, 58, 10126-10131.	7.2	15
20	Synthesis, characterization and reactivity of non-heme 1st row transition metal-superoxo intermediates. Coordination Chemistry Reviews, 2019, 382, 126-144.	9.5	48
21	Tuning Structures and Properties for Developing Novel Chemical Tools toward Distinct Pathogenic Elements in Alzheimerâ€™s Disease. ACS Chemical Neuroscience, 2018, 9, 800-808.	1.7	25
22	Oxidation of Naphthalene with a Manganese(IV) Bis(hydroxo) Complex in the Presence of Acid. Angewandte Chemie, 2018, 130, 7890-7894.	1.6	0
23	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
24	Structure and Reactivity of a Mononuclear Nonheme Manganese(III)â€“Iodosylarene Complex. Journal of the American Chemical Society, 2018, 140, 16037-16041.	6.6	26
25	Tailoring Hydrophobic Interactions between Probes and Amyloid-Î² Peptides for Fluorescent Monitoring of Amyloid-Î² Aggregation. ACS Omega, 2018, 3, 5141-5154.	1.6	7
26	Mechanistic Insights into Tunable Metal-Mediated Hydrolysis of Amyloid-Î² Peptides. Journal of the American Chemical Society, 2017, 139, 2234-2244.	6.6	55
27	Frontispiece: Dinuclear Iron(III) and Nickel(II) Complexes Containing Nâ€(2â€Pyridylmethyl)â€Nâ€²â€(2â€hydroxyethyl)ethylenediamine: Catalytic Oxidation and Magnetic Properties. Chemistry - A European Journal, 2017, 23, .	1.7	0
28	Aggregation of an nâ€“Ï€* Molecule Induces Fluorescence Turn-on. Journal of Physical Chemistry C, 2017, 121, 11907-11914.	1.5	15
29	Strategic Design of 2,2â€²-Bipyridine Derivatives to Modulate Metalâ€“Amyloid-Î² Aggregation. Inorganic Chemistry, 2017, 56, 6695-6705.	1.9	16
30	Stereochemistry of metal tetramethylcyclam complexes directed by an unexpected anion effect. Dalton Transactions, 2017, 46, 13166-13170.	1.6	10
31	Dinuclear Iron(III) and Nickel(II) Complexes Containing Nâ€(2â€Pyridylmethyl)â€Nâ€²â€(2â€hydroxyethyl)ethylenediamine: Catalytic Oxidation and Magnetic Properties. Chemistry - A European Journal, 2017, 23, 3023-3033.	1.7	26
32	Nucleophilic reactivity of copper(<scp>ii</scp>)â€“alkylperoxo complexes. Chemical Communications, 2017, 53, 9328-9331.	2.2	32
33	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
34	An Iridium(III) Complex as a Photoactivatable Tool for Oxidation of Amyloidogenic Peptides with Subsequent Modulation of Peptide Aggregation. Chemistry - A European Journal, 2017, 23, 1645-1653.	1.7	33
35	Reactivity of a Cobalt(III)â€“Hydroperoxo Complex in Electrophilic Reactions. Inorganic Chemistry, 2016, 55, 12391-12399.	1.9	38
36	A high-spin nickel(ii) borohydride complex in dehalogenation. Inorganic Chemistry Frontiers, 2016, 3, 157-163.	3.0	12

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37	Mechanistic insights into the reactions of hydride transfer versus hydrogen atom transfer by a trans-dioxoruthenium(<scp>vi</scp>) complex. Dalton Transactions, 2015, 44, 7634-7642.	1.6	21
38	Steric Effect on the Nucleophilic Reactivity of Nickel(III) Peroxo Complexes. Inorganic Chemistry, 2015, 54, 6176-6183.	1.9	39
39	Tuning the Reactivity of Chromium(III)-Superoxo Species by Coordinating Axial Ligands. Inorganic Chemistry, 2015, 54, 10513-10520.	1.9	21
40	Mechanistic Insights into the Câ€“H Bond Activation of Hydrocarbons by Chromium(IV) Oxo and Chromium(III) Superoxo Complexes. Inorganic Chemistry, 2014, 53, 645-652.	1.9	52
41	One-pot solvent-free reductive amination with a solid ammonium carbamate salt from CO2 and amine. RSC Advances, 2014, 4, 46203-46207.	1.7	7
42	Spectroscopic Characterization and Reactivity Studies of a Mononuclear Nonheme Mn(III)â€“Hydroperoxo Complex. Journal of the American Chemical Society, 2014, 136, 12229-12232.	6.6	49
43	Investigating Superoxide Transfer through a Î¼-1,2-O₂ Bridge between Nonheme Ni^{III}â€“Peroxo and Mn^{II} Species by DFT Methods to Bridge Theoretical and Experimental Views. Journal of Physical Chemistry Letters, 2014, 5, 2437-2442.	2.1	7
44	Direct Synthesis of Imines via Solid State Reactions of Carbamates with Aldehydes. Advanced Synthesis and Catalysis, 2013, 355, 389-394.	2.1	13
45	A mononuclear nonheme iron(iii)â€“peroxo complex binding redox-inactive metal ions. Chemical Science, 2013, 4, 3917.	3.7	79
46	Solid-state and solvent-free synthesis of azines, pyrazoles, and pyridazinones using solid hydrazine. Tetrahedron Letters, 2013, 54, 1384-1388.	0.7	50
47	Intrinsic properties and reactivities of mononuclear nonheme ironâ€“oxygen complexes bearing the tetramethylcyclam ligand. Coordination Chemistry Reviews, 2013, 257, 381-393.	9.5	157
48	Mononuclear nickel(ii)-superoxo and nickel(iii)-peroxo complexes bearing a common macrocyclic TMC ligand. Chemical Science, 2013, 4, 1502.	3.7	93
49	Comparison of High-Spin and Low-Spin Nonheme Fe^{III}â€“OOH Complexes in Oâ€“O Bond Homolysis and H-Atom Abstraction Reactivities. Journal of the American Chemical Society, 2013, 135, 3286-3299.	6.6	105
50	Highly stereoselective directed reactions and an efficient synthesis of azafuranoses from a chiral aziridine. Organic and Biomolecular Chemistry, 2013, 11, 3629.	1.5	13
51	A Mononuclear Non-Heme High-Spin Iron(III)â€“Hydroperoxo Complex as an Active Oxidant in Sulfoxidation Reactions. Journal of the American Chemical Society, 2013, 135, 8838-8841.	6.6	71
52	Mononuclear Manganeseâ€“Peroxo and Bis(Î¼â€oxo)dimanganese Complexes Bearing a Common Nâ€Methylated Macrocyclic Ligand. Chemistry - A European Journal, 2013, 19, 14119-14125.	1.7	44
53	Synthesis, Characterization, and Reactivity of Cobalt(III)â€“Oxygen Complexes Bearing a Macrocyclic Nâ€Tetramethylated Cyclam Ligand. Chemistry - A European Journal, 2013, 19, 14112-14118.	1.7	33
54	Chromium(IV)â€“Peroxo Complex Formation and Its Nitric Oxide Dioxygenase Reactivity. Journal of the American Chemical Society, 2012, 134, 15269-15272.	6.6	71

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55	A Chromium(III)â€“Superoxo Complex in Oxygen Atom Transfer Reactions as a Chemical Model of Cysteine Dioxygenase. Journal of the American Chemical Society, 2012, 134, 11112-11115.	6.6	66
56	Mononuclear Metalâ€“O₂ Complexes Bearing Macrocyclic N-Tetramethylated Cyclam Ligands. Accounts of Chemical Research, 2012, 45, 1321-1330.	7.6	187
57	A fluorescence turn-on H2O2 probe exhibits lysosome-localized fluorescence signals. Chemical Communications, 2012, 48, 5449.	2.2	71
58	Fluorescent Zinc Sensor with Minimized Proton-Induced Interferences: Photophysical Mechanism for Fluorescence Turn-On Response and Detection of Endogenous Free Zinc Ions. Inorganic Chemistry, 2012, 51, 8760-8774.	1.9	119
59	Electronâ€Transfer Reduction of Dinuclear Copper Peroxo and Bisâ€Ì¼â€oxo Complexes Leading to the Catalytic Fourâ€Electron Reduction of Dioxygen to Water. Chemistry - A European Journal, 2012, 18, 1084-1093.	1.7	78
60	Spectroscopic and computational characterization of CuIIâ€“OOR (R = H or cumyl) complexes bearing a Me6-tren ligand. Dalton Transactions, 2011, 40, 2234.	1.6	39
61	Synthesis of Azines in Solid State: Reactivity of Solid Hydrazine with Aldehydes and Ketones. Organic Letters, 2011, 13, 6386-6389.	2.4	34
62	Ligand Topology Effect on the Reactivity of a Mononuclear Nonheme Iron(IV)-Oxo Complex in Oxygenation Reactions. Journal of the American Chemical Society, 2011, 133, 11876-11879.	6.6	94
63	Structure and reactivity of a mononuclear non-haem iron(III)â€“peroxo complex. Nature, 2011, 478, 502-505.	13.7	292
64	XAS and DFT Investigation of Mononuclear Cobalt(III) Peroxo Complexes: Electronic Control of the Geometric Structure in CoO₂ versus NiO₂ Systems. Inorganic Chemistry, 2011, 50, 614-620.	1.9	51
65	Chromium(v)-oxo and chromium(iii)-superoxo complexes bearing a macrocyclic TMC ligand in hydrogen atom abstraction reactions. Chemical Science, 2011, 2, 2057.	3.7	61
66	Isolation and structural characterization of the elusive 1â€‰:â€‰1 adduct of hydrazine and carbon dioxide. Chemical Communications, 2011, 47, 11219.	2.2	28
67	Preparation and Reactivity of a Nickel Dihydride Complex. Angewandte Chemie - International Edition, 2011, 50, 10578-10580.	7.2	27
68	Synthesis, Structural, and Spectroscopic Characterization and Reactivities of Mononuclear Cobalt(III)â˜Peroxo Complexes. Journal of the American Chemical Society, 2010, 132, 16977-16986.	6.6	124
69	Water as an Oxygen Source: Synthesis, Characterization, and Reactivity Studies of a Mononuclear Nonheme Manganese(IV) Oxo Complex. Angewandte Chemie - International Edition, 2010, 49, 8190-8194.	7.2	90
70	Synthesis and crystal structure of nickel(II) complexes with bis(5-methyl-2-thiophenemethyl)(2-pyridylmethyl)amine. Polyhedron, 2010, 29, 446-450.	1.0	3
71	An â€œEnd-Onâ€•Chromium(III)-Superoxo Complex: Crystallographic and Spectroscopic Characterization and Reactivity in Câ˜H Bond Activation of Hydrocarbons. Journal of the American Chemical Society, 2010, 132, 5958-5959.	6.6	116
72	Spectroscopic and Computational Studies of a Î¼-Î·²:Î·²-Disulfido-Bridged Dinickel(II) Species, [{(PhTt^{tBu})Ni}₂(Î¼-Î·²:Î·²-S₂)]: Comparison of Side-On Disulfido and Peroxo Bonding in (Ni^{II})₂and (Cu^{II})₂Species. Inorganic Chemistry, 2010, 49, 3113-3120.	1.9	1

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73	Spectroscopic and Computational Studies of a Series of High-Spin Ni(II) Thiolate Complexes. Inorganic Chemistry, 2010, 49, 6535-6544.	1.9	9
74	Water as an Oxygen Source in the Generation of Mononuclear Nonheme Iron(IV) Oxo Complexes. Angewandte Chemie - International Edition, 2009, 48, 1803-1806.	7.2	98
75	Structural Characterization and Remarkable Axial Ligand Effect on the Nucleophilic Reactivity of a Nonheme Manganese(III)â€“Peroxo Complex. Angewandte Chemie - International Edition, 2009, 48, 4150-4153.	7.2	115
76	Oxidation Reactivity of Bis(Î¼â€oxo) Dinickel(III) Complexes: Arene Hydroxylation of the Supporting Ligand. Angewandte Chemie - International Edition, 2009, 48, 3304-3307.	7.2	29
77	Geometric and electronic structure and reactivity of a mononuclear â€˜side-onâ€™ nickel(iii)â€“peroxo complex. Nature Chemistry, 2009, 1, 568-572.	6.6	153
78	Reactivity of a cobalt(III)-peroxo complex in oxidative nucleophilic reactions. Journal of Inorganic Biochemistry, 2008, 102, 2155-2159.	1.5	56
79	New Synthetic Routes to a Disulfidodinickel(II) Complex: Characterization and Reactivity of a Ni₂(Âµ-Î·²:Î·²-S₂) Core. Inorganic Chemistry, 2008, 47, 3931-3933.	1.9	27
80	Combined Experimental and Theoretical Approach To Understand the Reactivity of a Mononuclear Cu(II)â˜Hydroperoxo Complex in Oxygenation Reactions. Journal of Physical Chemistry A, 2008, 112, 13102-13108.	1.1	25
81	Structural, Spectroscopic, and Electrochemical Properties of a Series of High-Spin Thiolatonickel(II) Complexes. Inorganic Chemistry, 2007, 46, 11308-11315.	1.9	28
82	Sequential Reaction Intermediates in Aliphatic Câ˜H Bond Functionalization Initiated by a Bis(Î¼-oxo)dinickel(III) Complex. Inorganic Chemistry, 2006, 45, 2873-2885.	1.9	39
83	A Mononuclear Alkylperoxocopper(II) Complex as a Reaction Intermediate in the Oxidation of the Methyl Group of the Supporting Ligand. Angewandte Chemie - International Edition, 2006, 45, 6911-6914.	7.2	30
84	A Bis(Î¼-alkylperoxo)dinickel(II) Complex as a Reaction Intermediate for the Oxidation of the Methyl Groups of the Me2-tpa Ligand to Carboxylate and Alkoxide Ligands. Angewandte Chemie - International Edition, 2004, 43, 3300-3303.	7.2	56
85	Isolation and characterization of the first stable bicarbonato complex in a nickel(ii) system: identification of unusual monodentate coordination. Chemical Communications, 2004, , 1796-1797.	2.2	33
86	Monomeric and polymeric copper(II) hexaaza macrocyclic complexes with btc anions (btc=1,2,4,5-benzenetetracarboxylic acid). Inorganica Chimica Acta, 2003, 342, 305-310.	1.2	47
87	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
88	Polymeric nickel(II) and copper(II) complexes with btc2â˜ ions as bridging ligands (btc2â˜=1,2,4,5-benzenetetracarboxylic acid dianion). Inorganic Chemistry Communication, 2003, 6, 474-477.	1.8	37
89	Trans-bis(dicyanamido)nickel(II) complexes with polyaza macrocyclic ligands. Transition Metal Chemistry, 2002, 27, 429-432.	0.7	16
90	Syntheses, isolation, and structures of nickel(II) and copper(II) coordination polymers with a tetraaza macrocyclic ligand. Inorganica Chimica Acta, 2001, 317, 252-258.	1.2	50

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91	Structures and magnetic properties of catena-(Î¼-MO4-O,Oâ€²)[Ni(II)(L)]Â·5H2O (M=Cr, Mo;) Tj ETQq1 1 0.784314 rgBT /Overlock 10 163-167.	1.2	11