

Yunho Lee

List of Publications by Year in descending order

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71
papers

2,593
citations

186265

28
h-index

189892

50
g-index

77
all docs

77
docs citations

77
times ranked

2971
citing authors

#	ARTICLE	IF	CITATIONS
1	Triggering N ₂ uptake via redox-induced expulsion of coordinated NH ₃ and N ₂ silylation at trigonal bipyramidal iron. <i>Nature Chemistry</i> , 2010, 2, 558-565.	13.6	285
2	Heterolytic H ₂ Cleavage and Catalytic Hydrogenation by an Iron Metallaboratrane. <i>Organometallics</i> , 2013, 32, 3053-3062.	2.3	199
3	Facile <i>meso</i> -BODIPY Annulation and Selective Sensing of Hypochlorite in Water. <i>Organic Letters</i> , 2014, 16, 520-523.	4.6	156
4	Hydrogen-Bond-Assisted Controlled C-H Functionalization via Adaptive Recognition of a Purine Directing Group. <i>Journal of the American Chemical Society</i> , 2014, 136, 1132-1140.	13.7	146
5	Dinitrogen Complexes Supported by Tris(phosphino)silyl Ligands. <i>Inorganic Chemistry</i> , 2009, 48, 2507-2517.	4.0	139
6	Enhanced Doubly Activated Dual Emission Fluorescent Probes for Selective Imaging of Glutathione or Cysteine in Living Systems. <i>Analytical Chemistry</i> , 2018, 90, 2648-2654.	6.5	137
7	Silylation of Iron-Bound Carbon Monoxide Affords a Terminal Fe Carbyne. <i>Journal of the American Chemical Society</i> , 2011, 133, 4438-4446.	13.7	76
8	A σ -Alkyl Nickel(I) Metalloradical Species. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 9502-9506.	13.8	75
9	Formation of a nickel carbon dioxide adduct and its transformation mediated by a Lewis acid. <i>Chemical Communications</i> , 2014, 50, 11458-11461.	4.1	74
10	Synthesis and Reactivity of Nickel(II) Hydroxycarbonyl Species, NiCOOH- η^5 -C ₅ H ₅ . <i>Organometallics</i> , 2013, 32, 7195-7203.	2.3	61
11	Vanadyl-Catecholamine Hydrogels Inspired by Ascidians and Mussels. <i>Chemistry of Materials</i> , 2015, 27, 105-111.	6.7	61
12	A Nonclassical Dihydrogen Adduct of η^5 -C ₅ H ₅ - η^2 -Fe(I). <i>Journal of the American Chemical Society</i> , 2011, 133, 16366-16369.	13.7	59
13	Phosphinite-Ni(0) Mediated Formation of a Phosphide-Ni(II)-OCOOMe Species via Uncommon Metal-Ligand Cooperation. <i>Journal of the American Chemical Society</i> , 2015, 137, 4280-4283.	13.7	58
14	Poly(amide-imide) materials for transparent and flexible displays. <i>Science Advances</i> , 2018, 4, eaau1956.	10.3	57
15	Direct CO ₂ Addition to a Ni(0)-CO Species Allows the Selective Generation of a Nickel(II) Carboxylate with Expulsion of CO. <i>Journal of the American Chemical Society</i> , 2018, 140, 2179-2185.	13.7	52
16	Transmethylation of a four-coordinate nickel(η^5 -C ₅ H ₅) monocarbonyl species with methyl iodide. <i>Chemical Science</i> , 2014, 5, 3853-3858.	7.4	49
17	Copper(I)/O ₂ Chemistry with Imidazole Containing Tripodal Tetradentate Ligands Leading to μ_2 -[1,2-Peroxo]dicopper(II) Species. <i>Inorganic Chemistry</i> , 2009, 48, 11297-11309.	4.0	47
18	Carbon dioxide binding at a Ni/Fe center: synthesis and characterization of Ni(η^5 -C ₅ H ₅)-CO ₂ - η^5 -C ₅ H ₅ and Ni(η^5 -C ₅ H ₅)-CO ₂ - η^5 -C ₅ H ₅ -O ₂ -Fe. <i>Chemical Science</i> , 2017, 8, 600-605.	13.7	44

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19	Selective Transformation of CO ₂ to CO at a Single Nickel Center. <i>Accounts of Chemical Research</i> , 2018, 51, 1144-1152.	15.6	43
20	Additive-promoted hypergolic ignition of ionic liquid with hydrogen peroxide. <i>Combustion and Flame</i> , 2020, 214, 426-436.	5.2	39
21	Designing Redox-Stable Cobalt-Polypyridyl Complexes for Redox Flow Batteries: Spin-Crossover Delocalizes Excess Charge. <i>Advanced Energy Materials</i> , 2018, 8, 1702897.	19.5	38
22	Sulfur Donor Atom Effects on Copper(I)/O ₂ Chemistry with Thioanisole Containing Tetradentate N ₃ S Ligand Leading to μ_4 -1,2-Peroxo-Dicopper(II) Species. <i>Inorganic Chemistry</i> , 2010, 49, 8873-8885.	4.0	37
23	Thioether Sulfur Oxygenation from O ₂ or H ₂ O ₂ Reactivity of Copper Complexes with Tridentate N ₂ Sthioether Ligands. <i>Inorganic Chemistry</i> , 2006, 45, 10098-10107.	4.0	36
24	Computer-aided rational design of Fe(σ)-catalysts for the selective formation of cyclic carbonates from CO ₂ and internal epoxides. <i>Catalysis Science and Technology</i> , 2017, 7, 4375-4387.	4.1	34
25	One metal is enough: a nickel complex reduces nitrate anions to nitrogen gas. <i>Chemical Science</i> , 2019, 10, 4767-4774.	7.4	33
26	Foldecture as a Core Material with Anisotropic Surface Characteristics. <i>Journal of the American Chemical Society</i> , 2015, 137, 2159-2162.	13.7	32
27	η^5 -Complexation as a strategy for designing copper-based light emitters. <i>Chemical Communications</i> , 2017, 53, 2858-2861.	4.1	31
28	Thioether S-igation in a side-on μ_4 - η^2 - η^2 -peroxodicopper(ii) complex. <i>Chemical Communications</i> , 2010, 46, 91-93.	4.1	29
29	Alkoxide Migration at a Nickel(II) Center Induced by a β -Acidic Ligand: Migratory Insertion versus Metal-Ligand Cooperation. <i>Inorganic Chemistry</i> , 2016, 55, 12863-12871.	4.0	28
30	A π -Shaped Nickel(I) Metalloradical Species. <i>Angewandte Chemie</i> , 2017, 129, 9630-9634.	2.0	28
31	A Low-Spin Three-Coordinate Cobalt(I) Complex and Its Reactivity toward H ₂ and Silane. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 6938-6942.	13.8	26
32	A molecular pinwheel multicopper(i) cluster, [(LS ⁺) ₆ Cu ₁₃ (S ²⁻) ₂] ³⁺ with μ_4 -sulfido, μ_3 -thiolato and nitrogenligands. <i>Chemical Communications</i> , 2006, , 621-623.	4.1	25
33	Mechanistic Study on C-C Bond Formation of a Nickel(I) Monocarbonyl Species with Alkyl Iodides: Experimental and Computational Investigations. <i>Organometallics</i> , 2015, 34, 4305-4311.	2.3	25
34	Efficient Synthesis of Frutinone-A and Its Derivatives through Palladium-Catalyzed C-H Activation/Carbonylation. <i>Chemistry - an Asian Journal</i> , 2015, 10, 878-881.	3.3	25
35	Formation of a tetranickel octacarbonyl cluster from the CO ₂ reaction of a zero-valent nickel monocarbonyl species. <i>Inorganic Chemistry Frontiers</i> , 2016, 3, 849-855.	6.0	21
36	Reversible Intramolecular P-S Bond Formation Coupled with a Ni(0)/Ni(II) Redox Process. <i>Organometallics</i> , 2016, 35, 1586-1592.	2.3	20

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37	The unusual hydricity of a cobalt bound Si-H moiety. <i>Chemical Communications</i> , 2016, 52, 9367-9370.	4.1	18
38	A P-S Bond as a Redox Reservoir and an Active Reaction Site. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 14159-14163.	13.8	17
39	A Silyl-Nickel Moiety as a Metal-Ligand Cooperative Site. <i>Inorganic Chemistry</i> , 2019, 58, 11534-11545.	4.0	17
40	Thiol-copper(I) and disulfide-dicopper(I) complex O ₂ -reactivity leading to sulfonate-copper(II) complex or the formation of a cross-linked thioether-phenol product with phenol addition. <i>Journal of Inorganic Biochemistry</i> , 2007, 101, 1845-1858.	3.5	16
41	Novel intramolecular I-I interaction in a BODIPY system by oxidation of a single selenium center: geometrical stamping and spectroscopic and spectrometric distinctions. <i>Dalton Transactions</i> , 2017, 46, 4111-4117.	3.3	16
42	Rapid ignition of green-bipropellants enlisting hypergolic copper (II) promoter-in-fuel. <i>Fuel</i> , 2021, 297, 120734.	6.4	16
43	Conformational Adaptation of Peptide Foldamers for the Formation of Metal-Peptide Frameworks. <i>Angewandte Chemie - International Edition</i> , 2022, 61, .	13.8	14
44	Well-Defined Cesium Benzotriazolide as an Active Catalyst for Generating Disubstituted Ureas from Carbon Dioxide and Amines. <i>ChemCatChem</i> , 2017, 9, 247-252.	3.7	13
45	Divergent Strategies for the Extension of Heteroaryl Halides Using Norbornadiene as an Acetylene Synthon. <i>Organic Letters</i> , 2020, 22, 9670-9676.	4.6	12
46	Synthesis and characterization of a four-coordinate nickel carbamate species (MeSiPr ₂) ₂ EtOqO ₀ 0rgBT / Overlock 10 Tf 50 387 To Chimica Acta, 2017, 460, 55-62.	2.4	11
47	Single and double-doping effects on the thermoelectric properties of two Zintl compounds: Eu ₁₁ Bi _{8.07(2)} Sn _{1.93} and Eu _{10.74(2)} K _{0.26} Bi _{9.14(2)} Sn _{0.86} . <i>Dalton Transactions</i> , 2017, 46, 11840-11850.	3.3	10
48	Bond Rotation in an Aromatic Carbaporphyrin: Allyliporphyrin. <i>Chemistry - A European Journal</i> , 2018, 24, 10054-10058.	3.3	10
49	A Low-Spin Three-Coordinate Cobalt(I) Complex and Its Reactivity toward H ₂ and Silane. <i>Angewandte Chemie</i> , 2019, 131, 7012-7016.	2.0	10
50	Anionic Doping and Cationic Site Preference in CaYb ₄ Al ₂ Sb ₆ Ge _x (x = 0.2, 0.5). <i>Chemistry</i> , 2019, 58, 5827-5836.	4.0	9
51	Single-Crystal Growth and Size Control of Three Novel Polar Intermetallics: Eu _{2.94(2)} Ca _{6.06} In ₈ Ge ₈ , Eu _{3.13(2)} Ca _{5.87} In ₈ Ge ₈ , and Sr _{3.23(3)} Ca _{5.77} In ₈ Ge ₈ with Crystal Structure, Chemical Bonding, and Magnetism Studies. <i>Inorganic Chemistry</i> , 2014, 53, 1669-1677.	4.0	8
52	Metal-ligand cooperative transformation of alkyl azide to isocyanate occurring at a Co-Si moiety. <i>Chemical Communications</i> , 2021, 57, 3219-3222.	4.1	8
53	Enhancing Trust of Supply Chain Using Blockchain Platform with Robust Data Model and Verification Mechanisms. , 2019, , .		7
54	Photophysical Tuning of Si-H Copper-Carbazolide Complexes To Give Deep-Blue Emission. <i>Inorganic Chemistry</i> , 2020, 59, 315-324.	4.0	7

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55	Chemoselective hydrogenation of $\hat{1}\pm, \hat{1}^2$ -unsaturated carbonyl compounds using a recyclable Ru catalyst embedded on a bisphosphine based POP. <i>Journal of Industrial and Engineering Chemistry</i> , 2021, 94, 361-367.	5.8	7
56	Metalâ€“ligand cooperativity of a Coâ€“P moiety. <i>Inorganic Chemistry Frontiers</i> , 2020, 7, 1172-1181.	6.0	6
57	Catalytic hydrogenation of $\text{CO}_{2\text{}}$ at a structurally rigidified cobalt center. <i>Inorganic Chemistry Frontiers</i> , 2020, 7, 1845-1850.	6.0	6
58	Nickel-Catalyzed NO Group Transfer Coupled with $\text{NO}_{\text{}}$ Conversion. <i>Journal of the American Chemical Society</i> , 2022, 144, 4585-4593.	13.7	6
59	Conformational Adaptation of $\hat{1}^2$ â€“Peptide Foldamers for the Formation of Metalâ€“Peptide Frameworks. <i>Angewandte Chemie</i> , 2022, 134, .	2.0	5
60	Reductive Carbonylation of Nitroarenes Using a Heterogenized Phen-Pd Catalyst. <i>Inorganic Chemistry</i> , 2022, 61, 1552-1561.	4.0	5
61	A Pâ€“P Bond as a Redox Reservoir and an Active Reaction Site. <i>Angewandte Chemie</i> , 2018, 130, 14355-14359.	2.0	3
62	Ni(0)-promoted activation of C_{sp^2} â€“H and C_{sp^2} â€“O bonds. <i>Chemical Science</i> , 2021, 12, 9983-9990.	7.4	3
63	HERMES: GS1-based Smart City Service Intercommunity. , 2018, , .		2
64	Axial Redox Tuning at a Tetragonal Cobalt Center. <i>Inorganic Chemistry</i> , 2021, 60, 5647-5659.	4.0	2
65	Frontispiece: Conformational Adaptation of $\hat{1}^2$ â€“Peptide Foldamers for the Formation of Metalâ€“Peptide Frameworks. <i>Angewandte Chemie - International Edition</i> , 2022, 61, .	13.8	2
66	Crystal Structure, Chemical Bonding and Magnetism Studies for Three Quinary Polar Intermetallic Compounds in the $(\text{Eu}_{1-x}\text{Ca}_x)_9\text{In}_8(\text{Ge}_{1-y}\text{Sn}_y)_8$ ($x = 0.66, y = 0.03$) and the $(\text{Eu}_{1-x}\text{Ca}_x)_3\text{In}(\text{Ge}_3\text{ySn}_{1+y})$ ($x \rightarrow .1, y \rightarrow 0.0$) $\text{rgBT} /$		
67	Binding of carbon monoxide at a single nickel center and its oxidative reactivity toward $\text{CO}_{2\text{}}$ and $\text{O}_{2\text{}}$. <i>Bulletin of the Korean Chemical Society</i> , 2022, 43, 222-226.	1.9	1
68	Well-Defined Cesium Benzotriazolide as an Active Catalyst for Generating Disubstituted Ureas from Carbon Dioxide and Amines. <i>ChemCatChem</i> , 2017, 9, 215-216.	3.7	0
69	RÃ¼cktitelbild: A Tâ€“Shaped Nickel(I) Metalloradical Species (<i>Angew. Chem.</i> 32/2017). <i>Angewandte Chemie</i> , 2017, 129, 9754-9754.	2.0	0
70	Metal-Ligand Cooperativity of Phosphorus-Containing Pincer Systems. <i>Topics in Organometallic Chemistry</i> , 2020, , 71.	0.7	0
71	Frontispiz: Conformational Adaptation of $\hat{1}^2$ â€“Peptide Foldamers for the Formation of Metalâ€“Peptide Frameworks. <i>Angewandte Chemie</i> , 2022, 134, .	2.0	0