

Dongwhan Lee

List of Publications by Year in descending order

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44
papers

1,288
citations

471509

17
h-index

345221

36
g-index

45
all docs

45
docs citations

45
times ranked

1771
citing authors

#	ARTICLE	IF	CITATIONS
1	Cascade proton relays facilitate electron transfer across hydrogen-bonding network. <i>Bulletin of the Korean Chemical Society</i> , 2022, 43, 549-553.	1.9	2
2	Powerful Direct C-H Amidation Polymerization Affords Single-Fluorophore-Based White-Light-Emitting Polysulfonamides by Fine-Tuning Hydrogen Bonds. <i>Journal of the American Chemical Society</i> , 2022, 144, 1778-1785.	13.7	22
3	Biomimetic hydrogen-bonding cascade for chemical activation: telling a nucleophile from a base. <i>Chemical Science</i> , 2021, 12, 590-598.	7.4	7
4	Permselective metal-organic framework gel membrane enables long-life cycling of rechargeable organic batteries. <i>Nature Nanotechnology</i> , 2021, 16, 77-84.	31.5	105
5	Non-stackable molecules assemble into porous crystals displaying concerted cavity-changing motions. <i>Chemical Science</i> , 2021, 12, 6378-6384.	7.4	7
6	Conducting polymers as anion-responsive chemical fuses. <i>Chemical Communications</i> , 2021, 57, 3773-3776.	4.1	1
7	A π -fusion strategy to design bipolar organic materials for high-energy-density symmetric batteries. <i>Journal of Materials Chemistry A</i> , 2021, 9, 14485-14494.	10.3	30
8	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.	3.3	9
9	Sharp Turns and Fluorescent Repeats: Modular Construction and Shape-Dependent Electronic Properties of π -Conjugated Chain Molecules. <i>ChemPlusChem</i> , 2021, 86, 313-318.	2.8	1
10	Click-To-Twist Strategy To Build Blue-to-Green Emitters: Bulky Triazoles for Electronically Tunable and Thermally Activated Delayed Fluorescence. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 12286-12295.	8.0	10
11	Making Waxy Salts in Water: Synthetic Control of Hydrophobicity for Anion-Induced and Aggregation-Enhanced Light Emission. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 10858-10864.	13.8	6
12	Making Waxy Salts in Water: Synthetic Control of Hydrophobicity for Anion-Induced and Aggregation-Enhanced Light Emission. <i>Angewandte Chemie</i> , 2021, 133, 10953-10959.	2.0	1
13	Variations in Complementary Hydrogen Bonds Direct Assembly Patterns of Isosteric Polyheteroaromatics at Surfaces. <i>Chemistry - A European Journal</i> , 2021, 27, 13887-13893.	3.3	4
14	Relief of excited-state antiaromaticity enables the smallest red emitter. <i>Nature Communications</i> , 2021, 12, 5409.	12.8	38
15	Ligand Taxonomy for Bioinorganic Modeling of Dioxygen-Activating Non-Heme Iron Enzymes. <i>Chemistry - A European Journal</i> , 2020, 26, 5916-5926.	3.3	17
16	Frontispiece: Ligand Taxonomy for Bioinorganic Modeling of Dioxygen-Activating Non-Heme Iron Enzymes. <i>Chemistry - A European Journal</i> , 2020, 26, .	3.3	0
17	Biological Nicotinamide Cofactor as a Redox-Active Motif for Reversible Electrochemical Energy Storage. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 16764-16769.	13.8	19
18	Biological Nicotinamide Cofactor as a Redox-Active Motif for Reversible Electrochemical Energy Storage. <i>Angewandte Chemie</i> , 2019, 131, 16920-16925.	2.0	3

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19	Living Polymerization Caught in the Act: Direct Observation of an Arrested Intermediate in Metathesis Polymerization. <i>Journal of the American Chemical Society</i> , 2019, 141, 10039-10047.	13.7	28
20	Redox-Driven Folding, Unfolding, and Refolding of Bis(tetrathiafulvalene) Molecular Switch. <i>Journal of Organic Chemistry</i> , 2019, 84, 6258-6269.	3.2	13
21	Weak Links To Differentiate Weak Bonds: Size-Selective Response of π -Conjugated Macrocyclic Gels to Ammonium Ions. <i>Journal of the American Chemical Society</i> , 2019, 141, 5980-5986.	13.7	16
22	Surface Self-Assembly, Film Morphology, and Charge Transport Properties of Semiconducting Triazoloarenes. <i>Langmuir</i> , 2019, 35, 6304-6311.	3.5	6
23	Crisscrossing coordination networks: ligand doping to control the chemomechanical properties of stimuli-responsive metallogels. <i>Chemical Science</i> , 2019, 10, 3864-3872.	7.4	11
24	Frontispiz: Biological Nicotinamide Cofactor as a Redox-Active Motif for Reversible Electrochemical Energy Storage. <i>Angewandte Chemie</i> , 2019, 131, .	2.0	0
25	Frontispiece: Biological Nicotinamide Cofactor as a Redox-Active Motif for Reversible Electrochemical Energy Storage. <i>Angewandte Chemie - International Edition</i> , 2019, 58, .	13.8	0
26	Non-Heme Iron Catalysts for Olefin Epoxidation: Conformationally Rigid Aryl-Aryl Junction To Support Amine/Imine Multidentate Ligands. <i>Chemistry - A European Journal</i> , 2018, 24, 8632-8638.	3.3	10
27	From Foldable Open Chains to Shape-Persistent Macrocycles: Synthesis, Impact on 2D Ordering, and Stimulated Self-Assembly. <i>Journal of the American Chemical Society</i> , 2018, 140, 4726-4735.	13.7	25
28	11th ISMSC-2016: International Symposium on Macrocyclic and Supramolecular Chemistry. <i>Supramolecular Chemistry</i> , 2017, 29, 687-687.	1.2	0
29	Triazoliptycenes: A Twist on Iptycene Chemistry for Regioselective Cross-Coupling To Build Nonstacking Fluorophores. <i>Organic Letters</i> , 2017, 19, 6380-6383.	4.6	14
30	Multichromophoric π -Conjugation: Modular Design for Gated and Cascade Energy Transfer. <i>Chemistry - A European Journal</i> , 2016, 22, 6610-6616.	3.3	12
31	Conformationally Distorted π -Conjugation for Reaction-Based Detection of Nickel: Fluorescence Turn-on by Twist-and-Fragment. <i>Organic Letters</i> , 2016, 18, 4530-4533.	4.6	14
32	BOIMPY: Fluorescent Boron Complexes with Tunable and Environment-Responsive Light-Emitting Properties. <i>Chemistry - A European Journal</i> , 2016, 22, 17321-17328.	3.3	37
33	High-Fidelity Self-Assembly of Crystalline and Parallel-Oriented Organic Thin Films by π - π Stacking from a Metal Surface. <i>Langmuir</i> , 2014, 30, 10050-10056.	3.5	23
34	Interdigitated Hydrogen Bonds: Electrophile Activation for Covalent Capture and Fluorescence Turn-On Detection of Cyanide. <i>Journal of the American Chemical Society</i> , 2013, 135, 3620-3632.	13.7	114
35	Stereodynamics of Metal-Ligand Assembly: What Lies Beneath the Simple Spectral Signatures of C_2 -Symmetric Chiral Chelates. <i>Chemistry - A European Journal</i> , 2013, 19, 5156-5168.	3.3	8
36	Three-Stage Binary Switching of Azoaromatic Polybase. <i>Organic Letters</i> , 2012, 14, 6286-6289.	4.6	7

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37	Reactivity-Based Detection of Copper(II) Ion in Water: Oxidative Cyclization of Azoaromatics as Fluorescence Turn-On Signaling Mechanism. <i>Journal of the American Chemical Society</i> , 2012, 134, 16000-16007.	13.7	181
38	Charge Injection and Transport in Metal-Containing Conducting Polymers: Spectroelectrochemical Mapping of Redox Activities. <i>Chemistry of Materials</i> , 2012, 24, 3650-3658.	6.7	28
39	Torsionally Responsive C_3 -Symmetric Azo Dyes: Azo-Hydrazone Tautomerism, Conformational Switching, and Application for Chemical Sensing. <i>Journal of the American Chemical Society</i> , 2010, 132, 12133-12144.	13.7	101
40	Turn-On Fluorescence Detection of Cyanide in Water: Activation of Latent Fluorophores through Remote Hydrogen Bonds That Mimic Peptide β -Turn Motif. <i>Journal of the American Chemical Society</i> , 2009, 131, 16283-16291.	13.7	187
41	Torsionally restricted tetradentate fluorophore: a swivelling ligand platform for ratiometric sensing of metal ions. <i>Chemical Communications</i> , 2008, , 6028.	4.1	26
42	Molecular engineering of two-dimensional π -conjugation: expected and unexpected photophysical consequences of a simple particle-in-a-box approach. <i>Journal of Materials Chemistry</i> , 2007, 17, 1969-1980.	6.7	19
43	Two-Dimensional Electronic Conjugation: Cooperative Folding and Fluorescence Switching. <i>Journal of the American Chemical Society</i> , 2006, 128, 11732-11733.	13.7	43
44	Oxidative N-Dealkylation of a Carboxylate-Bridged Diiron(II) Precursor Complex by Reaction with O_2 Affords the Elusive $\{Fe_2(\eta^4-OH)_2(\eta^4-O_2CR)\}_3$ Core of Soluble Methane Monooxygenase Hydroxylase. <i>Journal of the American Chemical Society</i> , 2001, 123, 4611-4612.	13.7	80