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	Turn-On Fluorescence Detection of Cyanide in Water: Activation of Latent Fluorophores through Remote Hydrogen Bonds That Mimic Peptide Î²-Turn Motif. Journal of the American Chemical Society, 2009, 131, 16283-16291.	13.7	187
2	Reactivity-Based Detection of Copper(II) Ion in Water: Oxidative Cyclization of Azoaromatics as Fluorescence Turn-On Signaling Mechanism. Journal of the American Chemical Society, 2012, 134, 16000-16007.	13.7	181
3	Interdigitated Hydrogen Bonds: Electrophile Activation for Covalent Capture and Fluorescence Turn-On Detection of Cyanide. Journal of the American Chemical Society, 2013, 135, 3620-3632.	13.7	114
4	Permselective metalâ€“organic framework gel membrane enables long-life cycling of rechargeable organic batteries. Nature Nanotechnology, 2021, 16, 77-84.	31.5	105
5	Torsionally Responsive C₃-Symmetric Azo Dyes: Azoâ^'Hydrazone Tautomerism, Conformational Switching, and Application for Chemical Sensing. Journal of the American Chemical Society, 2010, 132, 12133-12144.	13.7	101
6	Oxidative N-Dealkylation of a Carboxylate-Bridged Diiron(II) Precursor Complex by Reaction with O2Affords the Elusive {Fe2(Î¼-OH)2(Î¼-O2CR)}3+Core of Soluble Methane Monooxygenase Hydroxylase. Journal of the American Chemical Society, 2001, 123, 4611-4612.	13.7	80
7	Two-Dimensional Electronic Conjugation:Â Cooperative Folding and Fluorescence Switching. Journal of the American Chemical Society, 2006, 128, 11732-11733.	13.7	43
8	Relief of excited-state antiaromaticity enables the smallest red emitter. Nature Communications, 2021, 12, 5409.	12.8	38
9	BOIMPY: Fluorescent Boron Complexes with Tunable and Environmentâ€Responsive Lightâ€Emitting Properties. Chemistry - A European Journal, 2016, 22, 17321-17328.	3.3	37
10	A pâ€“n fusion strategy to design bipolar organic materials for high-energy-density symmetric batteries. Journal of Materials Chemistry A, 2021, 9, 14485-14494.	10.3	30
11	Charge Injection and Transport in Metal-Containing Conducting Polymers: Spectroelectrochemical Mapping of Redox Activities. Chemistry of Materials, 2012, 24, 3650-3658.	6.7	28
12	Living Polymerization Caught in the Act: Direct Observation of an Arrested Intermediate in Metathesis Polymerization. Journal of the American Chemical Society, 2019, 141, 10039-10047.	13.7	28
13	Torsionally restricted tetradentate fluorophore: a swivelling ligand platform for ratiometric sensing of metal ions. Chemical Communications, 2008, , 6028.	4.1	26
14	From Foldable Open Chains to Shape-Persistent Macrocycles: Synthesis, Impact on 2D Ordering, and Stimulated Self-Assembly. Journal of the American Chemical Society, 2018, 140, 4726-4735.	13.7	25
15	High-Fidelity Self-Assembly of Crystalline and Parallel-Oriented Organic Thin Films by Ï€â€“Ï€ Stacking from a Metal Surface. Langmuir, 2014, 30, 10050-10056.	3.5	23
16	Powerful Direct Câ€“H Amidation Polymerization Affords Single-Fluorophore-Based White-Light-Emitting Polysulfonamides by Fine-Tuning Hydrogen Bonds. Journal of the American Chemical Society, 2022, 144, 1778-1785.	13.7	22
17	Molecular engineering of two-dimensional Ï€-conjugation: expected and unexpected photophysical consequences of a simple particle-in-a-box approach. Journal of Materials Chemistry, 2007, 17, 1969-1980.	6.7	19
18	Biological Nicotinamide Cofactor as a Redoxâ€Active Motif for Reversible Electrochemical Energy Storage. Angewandte Chemie - International Edition, 2019, 58, 16764-16769.	13.8	19

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19	Ligand Taxonomy for Bioinorganic Modeling of Dioxygenâ€Activating Nonâ€Heme Iron Enzymes. Chemistry - A European Journal, 2020, 26, 5916-5926.	3.3	17
20	Weak Links To Differentiate Weak Bonds: Size-Selective Response of Ï€-Conjugated Macrocycle Gels to Ammonium Ions. Journal of the American Chemical Society, 2019, 141, 5980-5986.	13.7	16
21	Conformationally Distorted Ï€-Conjugation for Reaction-Based Detection of Nickel: Fluorescence Turn-on by Twist-and-Fragment. Organic Letters, 2016, 18, 4530-4533.	4.6	14
22	Triazoliptycenes: A Twist on Iptycene Chemistry for Regioselective Cross-Coupling To Build Nonstacking Fluorophores. Organic Letters, 2017, 19, 6380-6383.	4.6	14
23	Redox-Driven Folding, Unfolding, and Refolding of Bis(tetrathiafulvalene) Molecular Switch. Journal of Organic Chemistry, 2019, 84, 6258-6269.	3.2	13
24	Multichromophoric Ï€â€Conjugation: Modular Design for Gated and Cascade Energy Transfer. Chemistry - A European Journal, 2016, 22, 6610-6616.	3.3	12
25	Crisscrossing coordination networks: ligand doping to control the chemomechanical properties of stimuli-responsive metallogels. Chemical Science, 2019, 10, 3864-3872.	7.4	11
26	Nonâ€Heme Iron Catalysts for Olefin Epoxidation: Conformationally Rigid Arylâ€“Aryl Junction To Support Amine/Imine Multidentate Ligands. Chemistry - A European Journal, 2018, 24, 8632-8638.	3.3	10
27	Click-To-Twist Strategy To Build Blue-to-Green Emitters: Bulky Triazoles for Electronically Tunable and Thermally Activated Delayed Fluorescence. ACS Applied Materials & Interfaces, 2021, 13, 12286-12295.	8.0	10
28	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.	3.3	9
29	Stereodynamics of Metalâ€“Ligand Assembly: What Lies Beneath the â€œSimpleâ€•Spectral Signatures of C₂â€Symmetric Chiral Chelates. Chemistry - A European Journal, 2013, 19, 5156-5168.	3.3	8
30	Three-Stage Binary Switching of Azoaromatic Polybase. Organic Letters, 2012, 14, 6286-6289.	4.6	7
31	Biomimetic hydrogen-bonding cascade for chemical activation: telling a nucleophile from a base. Chemical Science, 2021, 12, 590-598.	7.4	7
32	Non-stackable molecules assemble into porous crystals displaying concerted cavity-changing motions. Chemical Science, 2021, 12, 6378-6384.	7.4	7
33	Surface Self-Assembly, Film Morphology, and Charge Transport Properties of Semiconducting Triazoloarenes. Langmuir, 2019, 35, 6304-6311.	3.5	6
34	Making Waxy Salts in Water: Synthetic Control of Hydrophobicity for Anionâ€Induced and Aggregationâ€Enhanced Light Emission. Angewandte Chemie - International Edition, 2021, 60, 10858-10864.	13.8	6
35	Variations in Complementary Hydrogen Bonds Direct Assembly Patterns of Isosteric Polyheteroaromatics at Surfaces. Chemistry - A European Journal, 2021, 27, 13887-13893.	3.3	4
36	Biological Nicotinamide Cofactor as a Redoxâ€Active Motif for Reversible Electrochemical Energy Storage. Angewandte Chemie, 2019, 131, 16920-16925.	2.0	3

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37	Cascade proton relays facilitate electron transfer across hydrogenâ€bonding network. Bulletin of the Korean Chemical Society, 2022, 43, 549-553.	1.9	2
38	Conducting polymers as anion-responsive chemical fuses. Chemical Communications, 2021, 57, 3773-3776.	4.1	1
39	Sharp Turns and Fluorescent Repeats: Modular Construction and Shapeâ€Dependent Electronic Properties of Ï€â€Conjugated Chain Molecules. ChemPlusChem, 2021, 86, 313-318.	2.8	1
40	Making Waxy Salts in Water: Synthetic Control of Hydrophobicity for Anionâ€Induced and Aggregationâ€Enhanced Light Emission. Angewandte Chemie, 2021, 133, 10953-10959.	2.0	1
41	11th ISMSC-2016: International Symposium on Macrocyclic and Supramolecular Chemistry. Supramolecular Chemistry, 2017, 29, 687-687.	1.2	0
42	Frontispiz: Biological Nicotinamide Cofactor as a Redoxâ€Active Motif for Reversible Electrochemical Energy Storage. Angewandte Chemie, 2019, 131, .	2.0	0
43	Frontispiece: Biological Nicotinamide Cofactor as a Redoxâ€Active Motif for Reversible Electrochemical Energy Storage. Angewandte Chemie - International Edition, 2019, 58, .	13.8	0
44	Frontispiece: Ligand Taxonomy for Bioinorganic Modeling of Dioxygenâ€Activating Nonâ€Heme Iron Enzymes. Chemistry - A European Journal, 2020, 26, .	3.3	0