Dong Wook Kim

List of Publications by Year
in descending order

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42 papers	2,450 citations	236925 25 h-index	276875 41 g-index
43 all docs	43 docs citations	43 times ranked	2442 citing authors

#	Article	IF	Citations
1	A New Class of SN2 Reactions Catalyzed by Protic Solvents:Â Facile Fluorination for Isotopic Labeling of Diagnostic Molecules. Journal of the American Chemical Society, 2006, 128, 16394-16397.	13.7	296
2	Polymer-Supported Ionic Liquids: Imidazolium Salts as Catalysts for Nucleophilic Substitution Reactions Including Fluorinations. Angewandte Chemie - International Edition, 2004, 43, 483-485.	13.8	251
3	New Method of Fluorination Using Potassium Fluoride in Ionic Liquid:â€‰ Significantly Enhanced Reactivity of Fluoride and Improved Selectivity. Journal of the American Chemical Society, 2002, 124, 10278-10279.	13.7	242
4	Facile Nucleophilic Fluorination Reactions Using tert-Alcohols as a Reaction Medium:â€‰ Significantly Enhanced Reactivity of Alkali Metal Fluorides and Improved Selectivity. Journal of Organic Chemistry, 2008, 73, 957-962.	3.2	168
5	Significantly Enhanced Reactivities of the Nucleophilic Substitution Reactions in Ionic Liquid. Journal of Organic Chemistry, 2003, 68, 4281-4285.	3.2	159
6	Tetrabutylammonium Tetra(tertâ€Butyl Alcohol)â€Coordinated Fluoride as a Facile Fluoride Source. Angewandte Chemie - International Edition, 2008, 47, 8404-8406.	13.8	143
7	Mesoporous Silica Nanoparticle Pretargeting for PET Imaging Based on a Rapid Bioorthogonal Reaction in a Living Body. Angewandte Chemie - International Edition, 2013, 52, 10549-10552.	13.8	140
8	Hydrogen-bond promoted nucleophilic fluorination: concept, mechanism and applications in positron emission tomography. Chemical Society Reviews, 2016, 45, 4638-4650.	38.1	130
9	Oxidized Carbon Nitrides: Waterâ€Dispersible, Atomically Thin Carbon Nitrideâ€Based Nanodots and Their Performances as Bioimaging Probes. Chemistry - A European Journal, 2015, 21, 6241-6246.	3.3	90
10	A new nucleophilic fluorine-18 labeling method for aliphatic mesylates: reaction in ionic liquids shows tolerance for water. Nuclear Medicine and Biology, 2003, 30, 345-350.	0.6	78
11	Hydroxylation of Alkyl Halides with Water in Ionic Liquid:Â Significantly Enhanced Nucleophilicity of Water. Journal of Organic Chemistry, 2004, 69, 3186-3189.	3.2	72
12	Structural Modification of Polymer-Supported Ionic Liquids as Catalysts for Nucleophilic Substitution Reactions Including Fluorination. Advanced Synthesis and Catalysis, 2006, 348, 1719-1727.	4.3	70
13	Highly efficient metal organic framework (MOF)-based copper catalysts for the base-free aerobic oxidation of various alcohols. RSC Advances, 2017, 7, 17806-17812.	3.6	51
14	Polymer-Supported Pentaethylene Glycol as a Facile Heterogeneous Catalyst for Nucleophilic Fluorination. Organic Letters, 2010, 12, 3740-3743.	4.6	42
15	Oligoethylene Glycols as Highly Efficient Mutifunctional Promoters for Nucleophilicâ€Substitution Reactions. Chemistry - A European Journal, 2012, 18, 3918-3924.	3.3	38
16	F-18 Labeled RGD Probes Based on Bioorthogonal Strain-Promoted Click Reaction for PET Imaging. ACS Medicinal Chemistry Letters, 2015, 6, 402-407.	2.8	35
17	Thin PEGylated Carbon Nitrides: Waterâ€Dispersible Organic Nanodots as Bioimaging Probes. Chemistry - A European Journal, 2018, 24, 3506-3511.	3.3	35
18	Tailor-Made Hexaethylene Glycolic Ionic Liquids as Organic Catalysts for Specific Chemical Reactions. Organic Letters, 2011, 13, 2502-2505.	4.6	34

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19	Macrophage cell tracking PET imaging using mesoporous silica nanoparticles via in vivo bioorthogonal F-18 labeling. Biomaterials, 2019, 199, 32-39.	11.4	34
20	Synthesis of N₄â€²-[¹⁸F]Fluoroalkylated Ciprofloxacin as a Potential Bacterial Infection Imaging Agent for PET Study. Bioconjugate Chemistry, 2010, 21, 2282-2288.	3.6	30
21	Polyethylene glycol methacrylate-grafted dicationic imidazolium-based ionic liquid: Heterogeneous catalyst for the synthesis of aryl-benzo[4,5]imidazo[1,2- a]pyrimidine amines under solvent-free conditions. Tetrahedron, 2017, 73, 5289-5296.	1.9	28
22	Bisâ€tertâ€Alcoholâ€Functionalized Crownâ€6â€Calix[4]arene: An Organic Promoter for Nucleophilic Fluorination. Chemistry - A European Journal, 2016, 22, 4515-4520.	3.3	27
23	Pyrene-Tagged Ionic Liquids: Separable Organic Catalysts for S_N2 Fluorination. Organic Letters, 2017, 19, 3342-3345.	4.6	27
24	Crown ether metal complex fluoride salt as a facile and low hygroscopic fluoride source for nucleophilic fluorination. Chemical Engineering Journal, 2015, 270, 36-40.	12.7	26
25	Genetic incorporation of unnatural amino acids biosynthesized from Î±-keto acids by an aminotransferase. Chemical Science, 2014, 5, 1881.	7.4	25
26	Task-specific hexaethylene glycol bridged di-cationic ionic liquids as catalysts for nucleophilic fluorination using potassium fluoride. Chemical Engineering Journal, 2017, 308, 664-668.	12.7	24
27	Enhanced tumor targetability of PEGylated mesoporous silica nanoparticles on in vivo optical imaging according to their size. RSC Advances, 2014, 4, 31318-31322.	3.6	23
28	Bis-triethylene Glycolic Crown-5-calix[4]arene: A Promoter of Nucleophilic Fluorination Using Potassium Fluoride. Organic Letters, 2019, 21, 3062-3066.	4.6	23
29	Nucleophilic Hydroxylation in Water Media Promoted by a Hexa-Ethylene Glycol-Bridged Dicationic Ionic Liquid. Journal of Organic Chemistry, 2015, 80, 7275-7280.	3.2	17
30	The Effects of Structural Modifications of Bisâ€tertâ€alcoholâ€Functionalized Crownâ€Calix[4]arenes as Nucleophilic Fluorination Promotors and Relations with Computational Predictions. European Journal of Organic Chemistry, 2020, 2020, 728-735.	2.4	10
31	Bioorthogonal click chemistry for fluorine-18 labeling protocols under physiologically friendly reaction condition. Journal of Fluorine Chemistry, 2015, 174, 142-147.	1.7	9
32	Mechanism of Nucleophilic Fluorination Facilitated by a Pyreneâ€tagged Ionic Liquids: Synergistic Effects of Pyreneâ€“Metal Cation Ï€â€Interactions. Bulletin of the Korean Chemical Society, 2018, 39, 1047-1053.	1.9	8
33	Harnessing Ionic Interactions and Hydrogen Bonding for Nucleophilic Fluorination. Molecules, 2020, 25, 721.	3.8	8
34	Multifunctional Crown-5-calix[4]arene-based Phase-Transfer Catalysts for Aromatic ¹⁸F-Fluorination. Organic Letters, 2020, 22, 9551-9555.	4.6	7
35	Polymer-supported oligoethylene glycols as heterogeneous multifunctional catalysts for nucleophilic substitution. Tetrahedron, 2013, 69, 3577-3583.	1.9	6
36	Computational study of S_N2 reactions promoted by crown ether: Contact ion pair versus solventâ€separated ion pair mechanism. International Journal of Quantum Chemistry, 2018, 118, e25547.	2.0	5

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37	Pyreneâ€Tagged Alcoholic Ionic Liquids as Phase Transfer Catalysts for Nucleophilic Fluorination. Bulletin of the Korean Chemical Society, 2020, 41, 1140-1146.	1.9	5
38	Production of Metalâ€Free C, N Alternating Nanoplatelets and Their In Vivo Fluorescence Imaging Performance without Labeling. Advanced Functional Materials, 2020, 30, 2004800.	14.9	5
39	Amino-polystyrene supported hexaethylene glycol-bridged ionic liquid as an efficient heterogeneous catalyst for water-mediated nucleophilic hydroxylation. RSC Advances, 2019, 9, 9435-9442.	3.6	4
40	Kinetics and Quantum Chemical Analysis of Intramolecular S N 2 Reactions by Using Metal Salts and Promoted by Crown Ethers: Contact Ion Pair vs. Separated Nucleophile Mechanism. ChemistrySelect, 2022, 7, .	1.5	2
41	Remarkable Solvent Effects of Structurally Diverse Alcohols on Nucleophilic Displacement Reactions with Halide Ions. Bulletin of the Korean Chemical Society, 2018, 39, 902-905.	1.9	0
42	KSNM60: The History of Radiopharmaceutical Sciences in Korea. Nuclear Medicine and Molecular Imaging, 0, , 1.	1.0	0