List of Publications by Year in descending order

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HEE-YOON LEE

#	Article	lF	CITATIONS
1	Controlled Polymerization in Mesoporous Silica toward the Design of Organicâ^'Inorganic Composite Nanoporous Materials. Journal of the American Chemical Society, 2005, 127, 1924-1932.	13.7	263
2	A chemical biology route to site-specific authentic protein modifications. Science, 2016, 354, 623-626.	12.6	188
3	Studies on tumor promoters. 8. The synthesis of phorbol. Journal of the American Chemical Society, 1989, 111, 8957-8958.	13.7	139
4	Studies on tumor promoters. 7. The synthesis of a potentially general precursor of the tiglianes, daphnanes, and ingenanes. Journal of the American Chemical Society, 1989, 111, 8954-8957.	13.7	125
5	Sulfur-Ylide-Mediated Synthesis of Functionalized and Trisubstituted Epoxides with High Enantioselectivity; Application to the Synthesis of CDP-840. Angewandte Chemie - International Edition, 2003, 42, 3274-3278.	13.8	122
6	One-Pot Three-Component Tandem Metathesis/Dielsâ^'Alder Reaction. Organic Letters, 2003, 5, 3439-3442.	4.6	100
7	Novel Catalytic Cycle for the Synthesis of Epoxides from Aldehydes and Sulfur Ylides Mediated by Catalytic Quantities of Sulfides and Rh2(OAc)4. Journal of the American Chemical Society, 1994, 116, 5973-5974.	13.7	99
8	Nonpeptidal P2Ligands for HIV Protease Inhibitors:Â Structure-Based Design, Synthesis, and Biological Evaluation. Journal of Medicinal Chemistry, 1996, 39, 3278-3290.	6.4	99
9	The Total Synthesis of a Natural Cardenolide:Â (+)-Digitoxigenin. Journal of the American Chemical Society, 1996, 118, 10660-10661.	13.7	89
10	ROSics: Chemistry and proteomics of cysteine modifications in redox biology. Mass Spectrometry Reviews, 2015, 34, 184-208.	5.4	87
11	Significant Selfâ€Acceleration Effects of Nitrile Additives in the Rhodium atalyzed Conversion of Aldoximes to Amides: A New Mechanistic Aspect. Advanced Synthesis and Catalysis, 2009, 351, 1807-1812.	4.3	82
12	Anhydrous Hydration of Nitriles to Amides using Aldoximes as the Water Source. Organic Letters, 2009, 11, 5598-5601.	4.6	79
13	Novel Oxidative Modifications in Redox-Active Cysteine Residues. Molecular and Cellular Proteomics, 2011, 10, M110.000513.	3.8	79
14	Potent HIV protease inhibitors: the development of tetrahydrofuranylglycines as novel P2-ligands and pyrazine amides as P3-ligands. Journal of Medicinal Chemistry, 1993, 36, 2300-2310.	6.4	76
15	A Stereoselective Enyne Cross Metathesis. Organic Letters, 2003, 5, 1855-1858.	4.6	75
16	Phorbaketals A, B, and C, Sesterterpenoids with a Spiroketal of Hydrobenzopyran Moiety Isolated from the Marine Sponge <i>Phorbas</i> sp Organic Letters, 2009, 11, 5590-5593.	4.6	63
17	Total Synthesis of (â^')-Crinipellin A. Journal of the American Chemical Society, 2014, 136, 10274-10276.	13.7	58
18	The Development of Cyclic Sulfolanes as Novel and High-Affinity P2 Ligands for HIV-1 Protease Inhibitors. Journal of Medicinal Chemistry, 1994, 37, 1177-1188.	6.4	56

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19	Facile Bartonâ^'McCombie Deoxygenation of Alcohols with Tetrabutylammonium Peroxydisulfate and Formate Ion. Organic Letters, 2005, 7, 3187-3190.	4.6	53
20	Studies on tumor promoters: the first synthesis of the phorbol skeleton. Journal of the American Chemical Society, 1987, 109, 4390-4392.	13.7	52
21	Selective 1,4-reduction of unsaturated carbonyl compounds using Co2(CO)8–H2O. Tetrahedron Letters, 2003, 44, 2775-2778.	1.4	52
22	Cyclic sulfolanes as novel and high-affinity P2 ligands for HIV-1 protease inhibitors. Journal of Medicinal Chemistry, 1993, 36, 924-927.	6.4	49
23	Application of sulfur ylide mediated epoxidations in the asymmetric synthesis of β-hydroxy-δ-lactones. Synthesis of a mevinic acid analogue and (+)-prelactone B. Tetrahedron, 2004, 60, 9725-9733.	1.9	46
24	3'-Tetrahydrofuranylglycine as a novel, unnatural amino acid surrogate for asparagine in the design of inhibitors of the HIV protease. Journal of the American Chemical Society, 1993, 115, 801-803.	13.7	42
25	Chemical Control of Yeast Cell Division by Crossâ€Linked Shells of Catecholâ€Grafted Polyelectrolyte Multilayers. Macromolecular Rapid Communications, 2013, 34, 1351-1356.	3.9	42
26	Total Synthesis of (±)â€Waihoensene. Angewandte Chemie - International Edition, 2017, 56, 8254-8257.	13.8	42
27	Triquinanes from Linear Alkylidene Carbenes via Trimethylenemethane Diyls. Journal of the American Chemical Society, 2003, 125, 10156-10157.	13.7	41
28	Soluble Epoxide Hydrolase Activity Determines the Severity of Ischemia-Reperfusion Injury in Kidney. PLoS ONE, 2012, 7, e37075.	2.5	40
29	Tandem radical cyclization reaction of N-aziridinyl imines to [3.3.3]propellanes: formal total syntheses of dl-modhephene. Chemical Communications, 1996, , 1539.	4.1	38
30	Chromen-based TNF-α converting enzyme (TACE) inhibitors: Design, synthesis, and biological evaluation. Bioorganic and Medicinal Chemistry, 2008, 16, 530-535.	3.0	38
31	Selective catalytic activity of ball-shaped Pd@MCM-48 nanocatalysts. Chemical Communications, 2006, , 1325.	4.1	37
32	CP-690550, a Janus Kinase Inhibitor, Suppresses CD4+ T-Cell–Mediated Acute Graft-Versus-Host Disease by Inhibiting the Interferon-γ Pathway. Transplantation, 2010, 90, 825-835.	1.0	37
33	Stereospecific mechanism of <scp>DJ</scp> â€l glyoxalases inferred from their hemithioacetalâ€containing crystal structures. FEBS Journal, 2014, 281, 5447-5462.	4.7	36
34	Title is missing!. Angewandte Chemie, 2003, 115, 3396-3400.	2.0	34
35	Ordered mesoporous carbon molecular sieves with functionalized surfaces. Studies in Surface Science and Catalysis, 2003, , 37-40.	1.5	34
36	Tandem Cycloaddition Reactions of Allenyl Diazo Compounds Forming Triquinanes via Trimethylenemethane Diyls. Journal of the American Chemical Society, 2011, 133, 18050-18053.	13.7	34

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37	Synthesis, enzymatic inhibition, and cancer cell growth inhibition of novel δ-lactam-based histone deacetylase (HDAC) inhibitors. Bioorganic and Medicinal Chemistry Letters, 2006, 16, 4068-4070.	2.2	33
38	Solution-phase combinatorial synthesis of isoxazolines and isoxazoles using [2+3] cycloaddition reaction of nitrile oxides. Tetrahedron Letters, 2001, 42, 1057-1060.	1.4	32
39	Probing the Mode of Asymmetric Induction of Biginelli Reaction Using Proline Ester Salts. European Journal of Organic Chemistry, 2009, 2009, 3858-3862.	2.4	31
40	Trimethylenemethane Diyl Mediated Tandem Cycloaddition Reactions: Mechanism Based Design of Synthetic Strategies. Accounts of Chemical Research, 2015, 48, 2308-2319.	15.6	31
41	Structureâ^'Activity Relationship Studies of a Series of Novel Î'-Lactam-Based Histone Deacetylase Inhibitors. Journal of Medicinal Chemistry, 2007, 50, 2737-2741.	6.4	29
42	Phorbasones A and B, Sesterterpenoids Isolated from the Marine Sponge <i>Phorbas</i> sp. and Induction of Osteoblast Differentiation. Organic Letters, 2011, 13, 884-887.	4.6	29
43	Tissue-based metabolic labeling of polysialic acids in living primary hippocampal neurons. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, E241-E248.	7.1	29
44	Total synthesis of α-cedrene: A new strategy utilizing N-Aziridinylimine radical chemistry. Tetrahedron Letters, 1998, 39, 7713-7716.	1.4	28
45	An efficient Cu-catalyzed azide–alkyne cycloaddition (CuAAC) reaction in aqueous medium with a zwitterionic ligand, betaine. Catalysis Science and Technology, 2017, 7, 2450-2456.	4.1	28
46	Synthetic Strategies for (â^) annabidiol and Its Structural Analogs. Chemistry - an Asian Journal, 2019, 14, 3749-3762.	3.3	28
47	A Facile Construction of the Quadranoid Skeleton:  Application to the Total Synthesis of (±)-Suberosenone. Organic Letters, 2000, 2, 1951-1953.	4.6	27
48	Studies toward the synthesis of arteminolide: [5+2] cycloaddition reaction of allenes with oxidopyrylium ions. Tetrahedron Letters, 2001, 42, 1695-1698.	1.4	27
49	Modification of cap group in δ-lactam-based histone deacetylase (HDAC) inhibitors. Bioorganic and Medicinal Chemistry Letters, 2007, 17, 6234-6238.	2.2	27
50	Design and synthesis of a piperazinylalkylisoxazole library for subtype selective dopamine receptor ligands. Bioorganic and Medicinal Chemistry Letters, 2002, 12, 1327-1330.	2.2	26
51	Initial Catalystâ^'Substrate Association Step in Enyne Metathesis Catalyzed by Grubbs Ruthenium Complex Probed by Time-Dependent Fluorescence Quenching. Journal of the American Chemical Society, 2008, 130, 16506-16507.	13.7	26
52	Angularly Fused Triquinanes from Linear Substrates through Trimethylenemethane Diyl [2 + 3] Cycloaddition Reaction. Organic Letters, 2010, 12, 2672-2674.	4.6	25
53	Total Synthesis of Panaginsene with Structural Revision. Organic Letters, 2014, 16, 2466-2469.	4.6	25
54	Triquinanes from linear ketones via trimethylenemethane diyls. Tetrahedron Letters, 2007, 48, 1407-1410.	1.4	24

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55	Carbon Dioxide-Catalyzed Stereoselective Cyanation Reaction. ACS Catalysis, 2019, 9, 6006-6011.	11.2	24
56	Biosynthetically Inspired Syntheses of Secu′amamine A and Fluvirosaones A and B. Angewandte Chemie - International Edition, 2020, 59, 6894-6901.	13.8	22
57	A facile and enantiospecific synthesis of 2(S)- and 2 (R)[1′(S)-azido-2-phenylethyl]oxirane. Journal of the Chemical Society Chemical Communications, 1992, 1992, 273-274.	2.0	21
58	A facile tandem radical cyclization route to propellanes and its application to a total synthesis of modhephene. Tetrahedron Letters, 2005, 46, 1455-1458.	1.4	21
59	A new structural class of S-adenosylhomocysteine hydrolase inhibitors. Bioorganic and Medicinal Chemistry, 2009, 17, 6707-6714.	3.0	21
60	(+)-Dimericbiscognienyne A: Total Synthesis and Mechanistic Investigations of the Key Heterodimerization. Organic Letters, 2018, 20, 6886-6890.	4.6	21
61	A Stereoselective Synthesis of 1-Acetyl-2-aminomethylcyclopropanes from Allylsulfonamides and Phenyl(alkynyl)iodonium Salts. Synlett, 2001, 2001, 1656-1658.	1.8	20
62	Total Synthesis of (â^')-Phorbaketal A. Organic Letters, 2017, 19, 3903-3906.	4.6	20
63	A facile synthesis of 1,2-oxaphospholenes and stereoselective conversion into oxaphospholanes. Tetrahedron Letters, 2003, 44, 5811-5814.	1.4	19
64	An asymmetric total synthesis of (+)-pentalenene. Tetrahedron, 2013, 69, 7810-7816.	1.9	19
65	Total Synthesis of Ceratopicanol through Tandem Cycloaddition Reaction of a Linear Substrate. Chemistry - an Asian Journal, 2012, 7, 2450-2456.	3.3	17
66	Correlation between Functionality Preference of Ru Carbenes and <i>exo</i> / <i>endo</i> Product Selectivity for Clarifying the Mechanism of Ring-Closing Enyne Metathesis. Journal of Organic Chemistry, 2013, 78, 8242-8249.	3.2	17
67	A highly selective κ-opioid receptor agonist with low addictive potential and dependence liability. Bioorganic and Medicinal Chemistry Letters, 2006, 16, 3609-3613.	2.2	16
68	A Facile Total Synthesis of All Stereoisomers of Tarchonanthuslactone and Euscapholide from Chiral Epichlorohydrin. Synlett, 2009, 2009, 249-252.	1.8	16
69	Synthesis and pharmacological evaluation of 3-aryl-3-azolylpropan-1-amines as selective triple serotonin/norepinephrine/dopamine reuptake inhibitors. Bioorganic and Medicinal Chemistry Letters, 2010, 20, 5567-5571.	2.2	16
70	Small molecule activator of Nm23/NDPK as an inhibitor of metastasis. Scientific Reports, 2018, 8, 10909.	3.3	16
71	Cycloaddition reactions of trimethylenemethane diyls generated from alkynyl iodonium salts. Tetrahedron Letters, 2008, 49, 5693-5696.	1.4	15
72	A Formal Total Synthesis of Dysiherbaine and Neodysiherbaine A. European Journal of Organic Chemistry, 2012, 2012, 4192-4199.	2.4	14

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73	Active maintenance of endothelial cells prevents kidney fibrosis. Kidney Research and Clinical Practice, 2017, 36, 329-341.	2.2	14
74	A short synthesis of 3(r)-hydroxy-2(R)-isopropyltetrahydrothiophene: A precursor to a high-affinity P2-ligand of HIV-1 protease inhibitors. Tetrahedron Letters, 1993, 34, 6517-6520.	1.4	13
75	Design and synthesis of N-alkylated saccharins as selective α-1a adrenergic receptor antagonists. Bioorganic and Medicinal Chemistry Letters, 1998, 8, 2467-2472.	2.2	13
76	A tandem radical cyclization route to tricyclo[4.3.n.01,5]alkanes. Tetrahedron Letters, 2004, 45, 7225-7229.	1.4	13
77	Stereoselectivity in Trimethylenemethane (TMM) Diyl Mediated Cycloaddition Reaction to Angularly Fused Triquinanes. Chemistry - an Asian Journal, 2011, 6, 646-651.	3.3	13
78	Cu(OTf) ₂ -Promoted 1,4-Addition of Alkyl Bromides to Dehydroalanine. Journal of Organic Chemistry, 2019, 84, 4558-4565.	3.2	13
79	Au(I)-Catalyzed Cyclization of Epoxyalkynes to Allylic Alcohol Containing Spiroketals and Application to the Total Synthesis of (â°)-Alotaketal A. Organic Letters, 2020, 22, 4073-4077.	4.6	13
80	A practical total synthesis of gelastatins. Tetrahedron Letters, 2003, 44, 5803-5806.	1.4	12
81	The Stereoselective Dimerization Reaction of Oxidopyrylium Ions. Synthesis, 2007, 2007, 2360-2364.	2.3	12
82	Aziridinyl imines in organic synthesis: Development of tandem reaction strategies and application to total synthesis of natural products. Pure and Applied Chemistry, 2013, 85, 741-753.	1.9	12
83	Gelastatins and their hydroxamates as dual functional inhibitors for TNF-α converting enzyme and matrix metalloproteinases: Synthesis, biological evaluation, and mechanism studies. Biochemical and Biophysical Research Communications, 2006, 341, 627-634.	2.1	10
84	Total Synthesis of (–)â€13â€Acetoxymodhephene and (+)â€14â€Acetoxymodhephene. European Journal of Organic Chemistry, 2009, 2009, 5028-5037.	2.4	10
85	Sulfhydryl-Specific Probe for Monitoring Protein Redox Sensitivity. ACS Chemical Biology, 2014, 9, 2883-2894.	3.4	10
86	Total Synthesis of (±)â€Waihoensene. Angewandte Chemie, 2017, 129, 8366-8369.	2.0	10
87	A facile synthesis of (S)-felodipine. Tetrahedron, 2011, 67, 10222-10228.	1.9	9
88	Development of tripeptidyl farnesyltransferase inhibitors. Bioorganic and Medicinal Chemistry Letters, 2002, 12, 1599-1602.	2.2	8
89	Aldehyde Carboxylation: A Concise DFT Mechanistic Study and a Hypothetical Role of CO2 in the Origin of Life. Synlett, 2019, 30, 987-996.	1.8	8
90	Structure–activity relationship studies of the chromosome segregation inhibitor, Incentrom A. Bioorganic and Medicinal Chemistry Letters, 2008, 18, 4670-4674.	2.2	7

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91	Unexpected Selectivity of Intramolecular [3+2] Cycloaddition of Trimethylenemethane (TMM) Diyl toward Total Synthesis of Conidiogenone B. European Journal of Organic Chemistry, 2020, 2020, 609-617.	2.4	7
92	Development of Carbazole Derivatives Compounds against Candida albicans: Candidates to Prevent Hyphal Formation via the Ras1-MAPK Pathway. Journal of Fungi (Basel, Switzerland), 2021, 7, 688.	3.5	7
93	Construction of the ABC-ring System of Delnudine through Free Radical Cyclization and Alkylidene Carbene C-H Insertion. Bulletin of the Korean Chemical Society, 2010, 31, 557-558.	1.9	7
94	On the Erosion of Enantiopurity of Rhodonoids via Their Asymmetric Total Synthesis. Organic Letters, 2022, 24, 2181-2185.	4.6	7
95	Effect of substitution and temperature on the reactivity of bicyclo[3.1.0]hex-1-ene system. Tetrahedron Letters, 2001, 42, 7431-7434.	1.4	6
96	A Formal Total Synthesis of (+)â€Frondosin A. Asian Journal of Organic Chemistry, 2017, 6, 1594-1597.	2.7	6
97	Synthesis of Multi-substituted Pyrazoles Utilizing the N-Alkylated 3-Hydroxy-3-propargyl- or allenylisoindolines. Heterocycles, 2003, 60, 2499.	0.7	6
98	Unexpected Formation of a <i>transâ€syn</i> â€Fused Linear Triquinane from a Trimethylenemethane (TMM)â€Ðiylâ€Mediated [2+3] Cycloaddition Reaction Chemistry - an Asian Journal, 2011, 6, 1931-1935.	3.3	5
99	Practical Halogenations of Nucleosides Using Tetrabutylammonium Peroxydisulfate. Heterocycles, 2005, 66, 51.	0.7	4
100	A receptor-independent, cell-based JAK activation assay for screening for JAK3-specific inhibitors. Journal of Immunological Methods, 2010, 354, 45-52.	1.4	4
101	CP-690550 Treatment Ameliorates Established Disease and Provides Long-Term Therapeutic Effects in an SKG Arthritis Model. Immune Network, 2013, 13, 257.	3.6	4
102	Total Synthesis of (±)-Jujuyane. Organic Letters, 2021, 23, 4651-4656.	4.6	4
103	Design, Synthesis and Antiviral Activity of 5-Hydroxymethyl-3-phosphonyl-4,5-dihydrofuran Analogs of Nucleotides. Bulletin of the Korean Chemical Society, 2010, 31, 2139-2140.	1.9	4
104	Immobilization of Antibody on a Cyclic Olefin Copolymer Surface with Functionalizable, Non-Biofouling Poly[Oligo(Ethylene Glycol) Methacrylate]. Journal of Nanoscience and Nanotechnology, 2015, 15, 1767-1770.	0.9	3
105	Biosynthetically Inspired Syntheses of Secu′amamine A and Fluvirosaones A and B. Angewandte Chemie, 2020, 132, 6961-6968.	2.0	3
106	Versatile Synthesis of Disubstituted Triazole Library for Dopamine and Serotonin Receptor Ligands. Bulletin of the Korean Chemical Society, 2011, 32, 3101-3104.	1.9	3
107	Regioselective Click Chemistry for Construction of Arylpiperazinyl 1,2,3-Triazole Derivative Libraries as Dopamine D ₄ /D ₃ Receptor Ligands. Bulletin of the Korean Chemical Society, 2014, 35, 3675-3678.	1.9	3
108	Nm23-H1 activator phenylbutenoid dimer exerts cytotoxic effects on metastatic breast cancer cells by inducing mitochondrial dysfunction only under glucose starvation. Scientific Reports, 2021, 11, 23549.	3.3	3

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109	Facile Total Syntheses of Putative and Revised Structures of Pethybrene. Asian Journal of Organic Chemistry, 2021, 10, 820-826.	2.7	2
110	Identification of substituted pyrazole constrained arylpiperazines asselective ligands for serotonin 5HT _{1a} and 5HT _{2a} receptors. Bulletin of the Korean Chemical Society, 2011, 32, 2861-2862.	1.9	2
111	Construction of a Library of Arylpiperazinyl 1,2,3-Triazole Derivatives as Ligands for Dopamine D3/D4Receptor. Bulletin of the Korean Chemical Society, 2013, 34, 3467-3470.	1.9	2
112	Sulfur-Ylide-Mediated Synthesis of Functionalized and Trisubstituted Epoxides with High Enantioselectivity; Application to the Synthesis of CDP-840 ChemInform, 2003, 34, no.	0.0	0
113	Triquinanes from Linear Alkylidene Carbenes via Trimethylenemethane Diyls ChemInform, 2003, 34, no.	0.0	0
114	One-Pot Three-Component Tandem Metathesis/Diels—Alder Reaction ChemInform, 2004, 35, no.	0.0	0
115	A Facile Tandem Radical Cyclization Route to Propellanes and Its Application to a Total Synthesis of Modhephene ChemInform, 2005, 36, no.	0.0	0
116	Total Synthesis of the Crinipellins. Strategies and Tactics in Organic Synthesis, 2014, , 271-291.	0.1	0
117	Synthesis and Biological Evaluation of Substituted Pyrazole Constrained Piperazine Derivative Library for Dopamine Receptor Antagonist. Bulletin of the Korean Chemical Society, 2016, 37, 2076-2079.	1.9	0
118	A Total Synthesis of (±)â€Ceratopicanol via Palladium Catalyzed Reductive Cyclization. European Journal of Organic Chemistry, 2020, 2020, 4931-4936.	2.4	0
119	A Free Radical Cyclization Catalyzed by Ruthenium Hydride Species. Chemistry - an Asian Journal, 2021, 16, 3909-3913.	3.3	0
120	Alkylidene Carbene from Silyl Vinyl Iodide Provides Mechanistic Insights on Trimethylenemethane Diyl-Mediated Tandem Cyclizations. Organic Letters, 2022, 24, 4399-4403.	4.6	0