

Hee-Yoon Lee

List of Publications by Year in descending order

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papers

3,759
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117453

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129
docs citations

129
times ranked

3969
citing authors

#	ARTICLE	IF	CITATIONS
1	Controlled Polymerization in Mesoporous Silica toward the Design of Organic-Inorganic Composite Nanoporous Materials. <i>Journal of the American Chemical Society</i> , 2005, 127, 1924-1932.	6.6	263
2	A chemical biology route to site-specific authentic protein modifications. <i>Science</i> , 2016, 354, 623-626.	6.0	188
3	Studies on tumor promoters. 8. The synthesis of phorbol. <i>Journal of the American Chemical Society</i> , 1989, 111, 8957-8958.	6.6	139
4	Studies on tumor promoters. 7. The synthesis of a potentially general precursor of the tiglianes, daphnanes, and ingenanes. <i>Journal of the American Chemical Society</i> , 1989, 111, 8954-8957.	6.6	125
5	Sulfur-Ylide-Mediated Synthesis of Functionalized and Trisubstituted Epoxides with High Enantioselectivity; Application to the Synthesis of CDP-840. <i>Angewandte Chemie - International Edition</i> , 2003, 42, 3274-3278.	7.2	122
6	One-Pot Three-Component Tandem Metathesis/Diels-Alder Reaction. <i>Organic Letters</i> , 2003, 5, 3439-3442.	2.4	100
7	Novel Catalytic Cycle for the Synthesis of Epoxides from Aldehydes and Sulfur Ylides Mediated by Catalytic Quantities of Sulfides and Rh ₂ (OAc) ₄ . <i>Journal of the American Chemical Society</i> , 1994, 116, 5973-5974.	6.6	99
8	Nonpeptidal P2Ligands for HIV Protease Inhibitors: A Structure-Based Design, Synthesis, and Biological Evaluation. <i>Journal of Medicinal Chemistry</i> , 1996, 39, 3278-3290.	2.9	99
9	The Total Synthesis of a Natural Cardenolide: (+)-Digitoxigenin. <i>Journal of the American Chemical Society</i> , 1996, 118, 10660-10661.	6.6	89
10	ROSics: Chemistry and proteomics of cysteine modifications in redox biology. <i>Mass Spectrometry Reviews</i> , 2015, 34, 184-208.	2.8	87
11	Significant Self-Acceleration Effects of Nitrile Additives in the Rhodium-Catalyzed Conversion of Aldoximes to Amides: A New Mechanistic Aspect. <i>Advanced Synthesis and Catalysis</i> , 2009, 351, 1807-1812.	2.1	82
12	Anhydrous Hydration of Nitriles to Amides using Aldoximes as the Water Source. <i>Organic Letters</i> , 2009, 11, 5598-5601.	2.4	79
13	Novel Oxidative Modifications in Redox-Active Cysteine Residues. <i>Molecular and Cellular Proteomics</i> , 2011, 10, M110.000513.	2.5	79
14	Potent HIV protease inhibitors: the development of tetrahydrofuranylglycines as novel P2-ligands and pyrazine amides as P3-ligands. <i>Journal of Medicinal Chemistry</i> , 1993, 36, 2300-2310.	2.9	76
15	A Stereoselective Enyne Cross Metathesis. <i>Organic Letters</i> , 2003, 5, 1855-1858.	2.4	75
16	Phorbaketals A, B, and C, Sesterterpenoids with a Spiroketal of Hydrobenzopyran Moiety Isolated from the Marine Sponge <i>Phorbasp.</i> <i>Organic Letters</i> , 2009, 11, 5590-5593.	2.4	63
17	Total Synthesis of (-)-Crinipellin A. <i>Journal of the American Chemical Society</i> , 2014, 136, 10274-10276.	6.6	58
18	The Development of Cyclic Sulfolanes as Novel and High-Affinity P2 Ligands for HIV-1 Protease Inhibitors. <i>Journal of Medicinal Chemistry</i> , 1994, 37, 1177-1188.	2.9	56

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19	Facile Barton ¹ McCombie Deoxygenation of Alcohols with Tetrabutylammonium Peroxydisulfate and Formate Ion. <i>Organic Letters</i> , 2005, 7, 3187-3190.	2.4	53
20	Studies on tumor promoters: the first synthesis of the phorbol skeleton. <i>Journal of the American Chemical Society</i> , 1987, 109, 4390-4392.	6.6	52
21	Selective 1,4-reduction of unsaturated carbonyl compounds using Co ₂ (CO) ₈ •H ₂ O. <i>Tetrahedron Letters</i> , 2003, 44, 2775-2778.	0.7	52
22	Cyclic sulfolanes as novel and high-affinity P2 ligands for HIV-1 protease inhibitors. <i>Journal of Medicinal Chemistry</i> , 1993, 36, 924-927.	2.9	49
23	Application of sulfur ylide mediated epoxidations in the asymmetric synthesis of β^2 -hydroxy- β^1 -lactones. Synthesis of a mevinic acid analogue and (+)-prelactone B. <i>Tetrahedron</i> , 2004, 60, 9725-9733.	1.0	46
24	3'-Tetrahydrofuranylglycine as a novel, unnatural amino acid surrogate for asparagine in the design of inhibitors of the HIV protease. <i>Journal of the American Chemical Society</i> , 1993, 115, 801-803.	6.6	42
25	Chemical Control of Yeast Cell Division by Cross-Linked Shells of Catechol-Grafted Polyelectrolyte Multilayers. <i>Macromolecular Rapid Communications</i> , 2013, 34, 1351-1356.	2.0	42
26	Total Synthesis of (±)-Waihoensene. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 8254-8257.	7.2	42
27	Triquinanes from Linear Alkylidene Carbenes via Trimethylenemethane Diyls. <i>Journal of the American Chemical Society</i> , 2003, 125, 10156-10157.	6.6	41
28	Soluble Epoxide Hydrolase Activity Determines the Severity of Ischemia-Reperfusion Injury in Kidney. <i>PLoS ONE</i> , 2012, 7, e37075.	1.1	40
29	Tandem radical cyclization reaction of N-aziridinyl imines to [3.3.3]propellanes: formal total syntheses of dl-modhephene. <i>Chemical Communications</i> , 1996, , 1539.	2.2	38
30	Chromen-based TNF- α converting enzyme (TACE) inhibitors: Design, synthesis, and biological evaluation. <i>Bioorganic and Medicinal Chemistry</i> , 2008, 16, 530-535.	1.4	38
31	Selective catalytic activity of ball-shaped Pd@MCM-48 nanocatalysts. <i>Chemical Communications</i> , 2006, , 1325.	2.2	37
32	CP-690550, a Janus Kinase Inhibitor, Suppresses CD4+ T-Cell-Mediated Acute Graft-Versus-Host Disease by Inhibiting the Interferon- γ Pathway. <i>Transplantation</i> , 2010, 90, 825-835.	0.5	37
33	Stereospecific mechanism of α -glyoxalases inferred from their hemithioacetal-containing crystal structures. <i>FEBS Journal</i> , 2014, 281, 5447-5462.	2.2	36
34	Title is missing!. <i>Angewandte Chemie</i> , 2003, 115, 3396-3400.	1.6	34
35	Ordered mesoporous carbon molecular sieves with functionalized surfaces. <i>Studies in Surface Science and Catalysis</i> , 2003, , 37-40.	1.5	34
36	Tandem Cycloaddition Reactions of Allenyl Diazo Compounds Forming Triquinanes via Trimethylenemethane Diyls. <i>Journal of the American Chemical Society</i> , 2011, 133, 18050-18053.	6.6	34

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37	Synthesis, enzymatic inhibition, and cancer cell growth inhibition of novel β -lactam-based histone deacetylase (HDAC) inhibitors. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2006, 16, 4068-4070.	1.0	33
38	Solution-phase combinatorial synthesis of isoxazolines and isoxazoles using [2+3] cycloaddition reaction of nitrile oxides. <i>Tetrahedron Letters</i> , 2001, 42, 1057-1060.	0.7	32
39	Probing the Mode of Asymmetric Induction of Biginelli Reaction Using Proline Ester Salts. <i>European Journal of Organic Chemistry</i> , 2009, 2009, 3858-3862.	1.2	31
40	Trimethylenemethane Diyl Mediated Tandem Cycloaddition Reactions: Mechanism Based Design of Synthetic Strategies. <i>Accounts of Chemical Research</i> , 2015, 48, 2308-2319.	7.6	31
41	Structure-Activity Relationship Studies of a Series of Novel β -Lactam-Based Histone Deacetylase Inhibitors. <i>Journal of Medicinal Chemistry</i> , 2007, 50, 2737-2741.	2.9	29
42	Phorbasones A and B, Sesterterpenoids Isolated from the Marine Sponge <i>Phorbasp</i> sp. and Induction of Osteoblast Differentiation. <i>Organic Letters</i> , 2011, 13, 884-887.	2.4	29
43	Tissue-based metabolic labeling of polysialic acids in living primary hippocampal neurons. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, E241-E248.	3.3	29
44	Total synthesis of β -cedrene: A new strategy utilizing N-Aziridinylimine radical chemistry. <i>Tetrahedron Letters</i> , 1998, 39, 7713-7716.	0.7	28
45	An efficient Cu-catalyzed azide-alkyne cycloaddition (CuAAC) reaction in aqueous medium with a zwitterionic ligand, betaine. <i>Catalysis Science and Technology</i> , 2017, 7, 2450-2456.	2.1	28
46	Synthetic Strategies for Δ^9 -Cannabidiol and Its Structural Analogs. <i>Chemistry - an Asian Journal</i> , 2019, 14, 3749-3762.	1.7	28
47	A Facile Construction of the Quadranoid Skeleton: Application to the Total Synthesis of (\pm)-Suberosenone. <i>Organic Letters</i> , 2000, 2, 1951-1953.	2.4	27
48	Studies toward the synthesis of arteminolide: [5+2] cycloaddition reaction of allenes with oxidopyrylium ions. <i>Tetrahedron Letters</i> , 2001, 42, 1695-1698.	0.7	27
49	Modification of cap group in β -lactam-based histone deacetylase (HDAC) inhibitors. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2007, 17, 6234-6238.	1.0	27
50	Design and synthesis of a piperazinylalkylisoxazole library for subtype selective dopamine receptor ligands. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2002, 12, 1327-1330.	1.0	26
51	Initial Catalyst-Substrate Association Step in Enyne Metathesis Catalyzed by Grubbs Ruthenium Complex Probed by Time-Dependent Fluorescence Quenching. <i>Journal of the American Chemical Society</i> , 2008, 130, 16506-16507.	6.6	26
52	Angularly Fused Triquinanes from Linear Substrates through Trimethylenemethane Diyl [2 + 3] Cycloaddition Reaction. <i>Organic Letters</i> , 2010, 12, 2672-2674.	2.4	25
53	Total Synthesis of Panaginsene with Structural Revision. <i>Organic Letters</i> , 2014, 16, 2466-2469.	2.4	25
54	Triquinanes from linear ketones via trimethylenemethane diyls. <i>Tetrahedron Letters</i> , 2007, 48, 1407-1410.	0.7	24

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55	Carbon Dioxide-Catalyzed Stereoselective Cyanation Reaction. ACS Catalysis, 2019, 9, 6006-6011.	5.5	24
56	Biosynthetically Inspired Syntheses of Secuamamine A and Fluvirosamines A and B. Angewandte Chemie - International Edition, 2020, 59, 6894-6901.	7.2	22
57	A facile and enantiospecific synthesis of 2(S)- and 2 (R) [1 ² (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.	0.7	21
59	A new structural class of S-adenosylhomocysteine hydrolase inhibitors. Bioorganic and Medicinal Chemistry, 2009, 17, 6707-6714.	1.4	21
60	(+)-Dimeric biscognienyne A: Total Synthesis and Mechanistic Investigations of the Key Heterodimerization. Organic Letters, 2018, 20, 6886-6890.	2.4	21
61	A Stereoselective Synthesis of 1-Acetyl-2-aminomethylcyclopropanes from Allylsulfonamides and Phenyl(alkynyl)iodonium Salts. Synlett, 2001, 2001, 1656-1658.	1.0	20
62	Total Synthesis of (âˆ™)-Phorbaketal A. Organic Letters, 2017, 19, 3903-3906.	2.4	20
63	A facile synthesis of 1,2-oxaphospholenes and stereoselective conversion into oxaphospholanes. Tetrahedron Letters, 2003, 44, 5811-5814.	0.7	19
64	An asymmetric total synthesis of (+)-pentalenene. Tetrahedron, 2013, 69, 7810-7816.	1.0	19
65	Total Synthesis of Ceratopicanol through Tandem Cycloaddition Reaction of a Linear Substrate. Chemistry - an Asian Journal, 2012, 7, 2450-2456.	1.7	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.	1.7	17
67	A highly selective Î²-opioid receptor agonist with low addictive potential and dependence liability. Bioorganic and Medicinal Chemistry Letters, 2006, 16, 3609-3613.	1.0	16
68	A Facile Total Synthesis of All Stereoisomers of Tarchonanthuslactone and Euscapholide from Chiral Epichlorohydrin. Synlett, 2009, 2009, 249-252.	1.0	16
69	Synthesis and pharmacological evaluation of 3-aryl-3-azolypropan-1-amines as selective triple serotonin/norepinephrine/dopamine reuptake inhibitors. Bioorganic and Medicinal Chemistry Letters, 2010, 20, 5567-5571.	1.0	16
70	Small molecule activator of Nm23/NDPK as an inhibitor of metastasis. Scientific Reports, 2018, 8, 10909.	1.6	16
71	Cycloaddition reactions of trimethylenemethane diyls generated from alkynyl iodonium salts. Tetrahedron Letters, 2008, 49, 5693-5696.	0.7	15
72	A Formal Total Synthesis of Dysiherbaine and Neodysiherbaine A. European Journal of Organic Chemistry, 2012, 2012, 4192-4199.	1.2	14

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73	Active maintenance of endothelial cells prevents kidney fibrosis. <i>Kidney Research and Clinical Practice</i> , 2017, 36, 329-341.	0.9	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. <i>Tetrahedron Letters</i> , 1993, 34, 6517-6520.	0.7	13
75	Design and synthesis of N-alkylated saccharins as selective α -1a adrenergic receptor antagonists. <i>Bioorganic and Medicinal Chemistry Letters</i> , 1998, 8, 2467-2472.	1.0	13
76	A tandem radical cyclization route to tricyclo[4.3.n.01,5]alkanes. <i>Tetrahedron Letters</i> , 2004, 45, 7225-7229.	0.7	13
77	Stereoselectivity in Trimethylenemethane (TMM) Diyl Mediated Cycloaddition Reaction to Angularly Fused Triquinanes. <i>Chemistry - an Asian Journal</i> , 2011, 6, 646-651.	1.7	13
78	Cu(OTf) ₂ -Promoted 1,4-Addition of Alkyl Bromides to Dehydroalanine. <i>Journal of Organic Chemistry</i> , 2019, 84, 4558-4565.	1.7	13
79	Au(I)-Catalyzed Cyclization of Epoxyalkynes to Allylic Alcohol Containing Spiroketal and Application to the Total Synthesis of (α)-Alotaketol A. <i>Organic Letters</i> , 2020, 22, 4073-4077.	2.4	13
80	A practical total synthesis of gelastatins. <i>Tetrahedron Letters</i> , 2003, 44, 5803-5806.	0.7	12
81	The Stereoselective Dimerization Reaction of Oxidopyrylium Ions. <i>Synthesis</i> , 2007, 2007, 2360-2364.	1.2	12
82	Aziridinyl imines in organic synthesis: Development of tandem reaction strategies and application to total synthesis of natural products. <i>Pure and Applied Chemistry</i> , 2013, 85, 741-753.	0.9	12
83	Gelastatins and their hydroxamates as dual functional inhibitors for TNF- α converting enzyme and matrix metalloproteinases: Synthesis, biological evaluation, and mechanism studies. <i>Biochemical and Biophysical Research Communications</i> , 2006, 341, 627-634.	1.0	10
84	Total Synthesis of (α)- β -Acetoxymodhephene and (+)- β -Acetoxymodhephene. <i>European Journal of Organic Chemistry</i> , 2009, 2009, 5028-5037.	1.2	10
85	Sulfhydryl-Specific Probe for Monitoring Protein Redox Sensitivity. <i>ACS Chemical Biology</i> , 2014, 9, 2883-2894.	1.6	10
86	Total Synthesis of (α)-Waihoensene. <i>Angewandte Chemie</i> , 2017, 129, 8366-8369.	1.6	10
87	A facile synthesis of (S)-felodipine. <i>Tetrahedron</i> , 2011, 67, 10222-10228.	1.0	9
88	Development of tripeptidyl farnesyltransferase inhibitors. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2002, 12, 1599-1602.	1.0	8
89	Aldehyde Carboxylation: A Concise DFT Mechanistic Study and a Hypothetical Role of CO ₂ in the Origin of Life. <i>Synlett</i> , 2019, 30, 987-996.	1.0	8
90	Structure-activity relationship studies of the chromosome segregation inhibitor, Incentrom A. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2008, 18, 4670-4674.	1.0	7

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91	Unexpected Selectivity of Intramolecular [3+2] Cycloaddition of Trimethylenemethane (TMM) Diyl toward Total Synthesis of Conidiogenone B. <i>European Journal of Organic Chemistry</i> , 2020, 2020, 609-617.	1.2	7
92	Development of Carbazole Derivatives Compounds against <i>Candida albicans</i> : Candidates to Prevent Hyphal Formation via the Ras1-MAPK Pathway. <i>Journal of Fungi (Basel, Switzerland)</i> , 2021, 7, 688.	1.5	7
93	Construction of the ABC-ring System of Delnudine through Free Radical Cyclization and Alkylidene Carbene C-H Insertion. <i>Bulletin of the Korean Chemical Society</i> , 2010, 31, 557-558.	1.0	7
94	On the Erosion of Enantiopurity of Rhodonoids via Their Asymmetric Total Synthesis. <i>Organic Letters</i> , 2022, 24, 2181-2185.	2.4	7
95	Effect of substitution and temperature on the reactivity of bicyclo[3.1.0]hex-1-ene system. <i>Tetrahedron Letters</i> , 2001, 42, 7431-7434.	0.7	6
96	A Formal Total Synthesis of (+)-Fronodosin A. <i>Asian Journal of Organic Chemistry</i> , 2017, 6, 1594-1597.	1.3	6
97	Synthesis of Multi-substituted Pyrazoles Utilizing the N-Alkylated 3-Hydroxy-3-propargyl- or allenylisoindolines. <i>Heterocycles</i> , 2003, 60, 2499.	0.4	6
98	Unexpected Formation of a <i>trans</i> -Syn-Fused Linear Triquinane from a Trimethylenemethane (TMM)-Diyl-Mediated [2+3] Cycloaddition Reaction.. <i>Chemistry - an Asian Journal</i> , 2011, 6, 1931-1935.	1.7	5
99	Practical Halogenations of Nucleosides Using Tetrabutylammonium Peroxydisulfate. <i>Heterocycles</i> , 2005, 66, 51.	0.4	4
100	A receptor-independent, cell-based JAK activation assay for screening for JAK3-specific inhibitors. <i>Journal of Immunological Methods</i> , 2010, 354, 45-52.	0.6	4
101	CP-690550 Treatment Ameliorates Established Disease and Provides Long-Term Therapeutic Effects in an SKG Arthritis Model. <i>Immune Network</i> , 2013, 13, 257.	1.6	4
102	Total Synthesis of (±)-Jujuyane. <i>Organic Letters</i> , 2021, 23, 4651-4656.	2.4	4
103	Design, Synthesis and Antiviral Activity of 5-Hydroxymethyl-3-phosphonyl-4,5-dihydrofuran Analogs of Nucleotides. <i>Bulletin of the Korean Chemical Society</i> , 2010, 31, 2139-2140.	1.0	4
104	Immobilization of Antibody on a Cyclic Olefin Copolymer Surface with Functionalizable, Non-Biofouling Poly[Oligo(Ethylene Glycol) Methacrylate]. <i>Journal of Nanoscience and Nanotechnology</i> , 2015, 15, 1767-1770.	0.9	3
105	Biosynthetically Inspired Syntheses of Secuamamine A and Fluvirosamines A and B. <i>Angewandte Chemie</i> , 2020, 132, 6961-6968.	1.6	3
106	Versatile Synthesis of Disubstituted Triazole Library for Dopamine and Serotonin Receptor Ligands. <i>Bulletin of the Korean Chemical Society</i> , 2011, 32, 3101-3104.	1.0	3
107	Regioselective Click Chemistry for Construction of Arylpiperazinyl 1,2,3-Triazole Derivative Libraries as Dopamine D ₄ /D ₃ Receptor Ligands. <i>Bulletin of the Korean Chemical Society</i> , 2014, 35, 3675-3678.	1.0	3
108	Nm23-H1 activator phenylbutenoid dimer exerts cytotoxic effects on metastatic breast cancer cells by inducing mitochondrial dysfunction only under glucose starvation. <i>Scientific Reports</i> , 2021, 11, 23549.	1.6	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.	1.3	2
110	Identification of substituted pyrazole constrained arylpiperazines as selective ligands for serotonin 5HT _{1A} and 5HT _{2A} receptors. Bulletin of the Korean Chemical Society, 2011, 32, 2861-2862.	1.0	2
111	Construction of a Library of Arylpiperazinyl 1,2,3-Triazole Derivatives as Ligands for Dopamine D3/D4 Receptor. Bulletin of the Korean Chemical Society, 2013, 34, 3467-3470.	1.0	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.	0.1	0
113	Triquinanes from Linear Alkylidene Carbenes via Trimethylenemethane Diyls. ChemInform, 2003, 34, no.	0.1	0
114	One-Pot Three-Component Tandem Metathesis/Diels-Alder Reaction. ChemInform, 2004, 35, no.	0.1	0
115	A Facile Tandem Radical Cyclization Route to Propellanes and Its Application to a Total Synthesis of Modhephene. ChemInform, 2005, 36, no.	0.1	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.	1.0	0
118	A Total Synthesis of (±)-Ceratopicanol via Palladium Catalyzed Reductive Cyclization. European Journal of Organic Chemistry, 2020, 2020, 4931-4936.	1.2	0
119	A Free Radical Cyclization Catalyzed by Ruthenium Hydride Species. Chemistry - an Asian Journal, 2021, 16, 3909-3913.	1.7	0
120	Alkylidene Carbene from Silyl Vinyl Iodide Provides Mechanistic Insights on Trimethylenemethane Diyl-Mediated Tandem Cyclizations. Organic Letters, 2022, 24, 4399-4403.	2.4	0