Dale L Boger

List of Publications by Year
in descending order

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530 papers	35,217 citations	2538 96 h-index	8370 147 g-index
552 all docs	552 docs citations	552 times ranked	17980 citing authors

#	Article	IF	Citations
1	Molecular characterization of an enzyme that degrades neuromodulatory fatty-acid amides. Nature, 1996, 384, 83-87.	13.7	1,933
2	Diels-alder reactions of azadienes. Tetrahedron, 1983, 39, 2869-2939.	1.0	625
3	Diels-Alder reactions of heterocyclic aza dienes. Scope and applications. Chemical Reviews, 1986, 86, 781-793.	23.0	607
4	A Simple, High-Resolution Method for Establishing DNA Binding Affinity and Sequence Selectivity. Journal of the American Chemical Society, 2001, 123, 5878-5891.	6.6	512
5	Total Syntheses of Ningalin A, Lamellarin O, Lukianol A, and Permethyl Storniamide A Utilizing Heterocyclic Azadiene Dielsâ^'Alder Reactions. Journal of the American Chemical Society, 1999, 121, 54-62.	6.6	381
6	Discovering potent and selective reversible inhibitors of enzymes in complex proteomes. Nature Biotechnology, 2003, 21, 687-691.	9.4	356
7	Mechanisms of in Situ Activation for DNA-Targeting Antitumor Agents. Chemical Reviews, 2002, 102, 2477-2496.	23.0	328
8	Reversible Inhibitors of Fatty Acid Amide Hydrolase That Promote Analgesia: Evidence for an Unprecedented Combination of Potency and Selectivity. Journal of Pharmacology and Experimental Therapeutics, 2004, 311, 441-448.	1.3	308
9	CC-1065 and the Duocarmycins: Understanding their Biological Function through Mechanistic Studies. Angewandte Chemie International Edition in English, 1996, 35, 1438-1474.	4.4	307
10	Total Synthesis of Vinblastine, Vincristine, Related Natural Products, and Key Structural Analogues. Journal of the American Chemical Society, 2009, 131, 4904-4916.	6.6	303
11	Small-molecule antagonists of Myc/Max dimerization inhibit Myc-induced transformation of chicken embryo fibroblasts. Proceedings of the National Academy of Sciences of the United States of America, 2002, 99, 3830-3835.	3.3	301
12	Fe(III)/NaBH₄-Mediated Free Radical Hydrofluorination of Unactivated Alkenes. Journal of the American Chemical Society, 2012, 134, 13588-13591.	6.6	289
13	A Fluorescent Intercalator Displacement Assay for Establishing DNA Binding Selectivity and Affinity. Accounts of Chemical Research, 2004, 37, 61-69.	7.6	265
14	CC-1065 and the Duocarmycins:Â Synthetic Studies. Chemical Reviews, 1997, 97, 787-828.	23.0	258
15	Iron(III)/NaBH₄-Mediated Additions to Unactivated Alkenes: Synthesis of Novel 20â€²-Vinblastine Analogues. Organic Letters, 2012, 14, 1428-1431.	2.4	254
16	The Sleep-inducing Lipid Oleamide Deconvolutes Gap Junction Communication and Calcium Wave Transmission in Glial Cells. Journal of Cell Biology, 1997, 139, 1785-1792.	2.3	226
17	Sequence-Selective DNA Recognition: Natural Products and Natureâ€™s Lessons. Chemistry and Biology, 2004, 11, 1607-1617.	6.2	212
18	Acyl radicals: intermolecular and intramolecular alkene addition reactions. Journal of Organic Chemistry, 1992, 57, 1429-1443.	1.7	203

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19	Discovery of a Potent, Selective, and Efficacious Class of Reversible Î±-Ketoheterocycle Inhibitors of Fatty Acid Amide Hydrolase Effective as Analgesicsâ‡. Journal of Medicinal Chemistry, 2005, 48, 1849-1856.	2.9	201
20	Inverse electron-demand Diels-Alder reactions of N-sulfonyl .alpha.,.beta.-unsaturated imines: a general approach to implementation of the 4.pi. participation of 1-aza-1,3-butadienes in Diels-Alder reactions. Journal of the American Chemical Society, 1991, 113, 1713-1729.	6.6	200
21	Total synthesis of prodigiosin, prodigiosene, and desmethoxyprodigiosin: Diels-Alder reactions of heterocyclic azadienes and development of an effective palladium(II)-promoted 2,2'-bipyrrole coupling procedure. Journal of Organic Chemistry, 1988, 53, 1405-1415.	1.7	199
22	Direct Coupling of Catharanthine and Vindoline to Provide Vinblastine:â€‰ Total Synthesis of (+)- and ent-(â^')-Vinblastine. Journal of the American Chemical Society, 2008, 130, 420-421.	6.6	189
23	Total Synthesis of Distamycin A and 2640 Analogues:Â A Solution-Phase Combinatorial Approach to the Discovery of New, Bioactive DNA Binding Agents and Development of a Rapid, High-Throughput Screen for Determining Relative DNA Binding Affinity or DNA Binding Sequence Selectivity. Journal of the American Chemical Society, 2000, 122, 6382-6394.	6.6	188
24	Total Synthesis of the Vancomycin Aglycon. Journal of the American Chemical Society, 1999, 121, 10004-10011.	6.6	183
25	Novel Solution Phase Strategy for the Synthesis of Chemical Libraries Containing Small Organic Molecules. Journal of the American Chemical Society, 1996, 118, 2567-2573.	6.6	173
26	Solution-Phase Combinatorial Libraries: Modulating Cellular Signaling by Targeting Proteinâ€“Protein or Proteinâ€“DNA Interactions. Angewandte Chemie - International Edition, 2003, 42, 4138-4176.	7.2	173
27	Total Synthesis of (â^')- andent-(+)-Vindoline and Related Alkaloids. Journal of the American Chemical Society, 2006, 128, 10596-10612.	6.6	169
28	Partitioning the Loss in Vancomycin Binding Affinity ford-Ala-d-Lac into Lost H-Bond and Repulsive Lone Pair Contributions. Journal of the American Chemical Society, 2003, 125, 9314-9315.	6.6	168
29	Peripheral modifications of [Î¨[CH ₂ NH]Tpg ⁴]vancomycin with added synergistic mechanisms of action provide durable and potent antibiotics. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, E5052-E5061.	3.3	165
30	Elucidation of Fatty Acid Amide Hydrolase Inhibition by Potent Î±-Ketoheterocycle Derivatives from Monte Carlo Simulations. Journal of the American Chemical Society, 2005, 127, 17377-17384.	6.6	163
31	Total Synthesis of Vinblastine, Related Natural Products, and Key Analogues and Development of Inspired Methodology Suitable for the Systematic Study of Their Structureâ€“Function Properties. Accounts of Chemical Research, 2015, 48, 653-662.	7.6	160
32	Total synthesis and evaluation of (.+-.)-N-(tert-butoxycarbonyl)-CBI, (.+-.)-CBI-CDPI1, and (.+-.)-CBI-CDPI2: CC-1065 functional agents incorporating the equivalent 1,2,9,9a-tetrahydrocyclopropa[1,2-c]benz[1,2-e]indol-4-one (CBI) left-hand subunit. Journal of the American Chemical Society, 1989, 111, 6461-6463.	6.6	157
33	An Efficient Synthesis of 1,2,9,9a-Tetrahydrocyclopropa[c]benz[e]indol-4-one CBI: An Enhanced and Simplified Analog of the CC-1065 and Duocarmycin Alkylation Subunits. Journal of Organic Chemistry, 1995, 60, 1271-1275.	1.7	153
34	Diels-alder cycloaddition reactions of cyclopropenone ketals. Tetrahedron, 1986, 42, 2777-2785.	1.0	152
35	Vancomycin, teicoplanin, and ramoplanin: Synthetic and mechanistic studies. Medicinal Research Reviews, 2001, 21, 356-381.	5.0	151
36	Asymmetric Total Synthesis ofent-(â^')-Roseophilin:Â Assignment of Absolute Configuration. Journal of the American Chemical Society, 2001, 123, 8515-8519.	6.6	150

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37	Chemistry and Biology of Ramoplanin:â€‰ A Lipoglycodepsipeptide with Potent Antibiotic Activity. Chemical Reviews, 2005, 105, 449-476.	23.0	150
38	Duocarmycin-pyrindamycin DNA alkylation properties and identification, synthesis, and evaluation of agents incorporating the pharmacophore of the duocarmycin-pyrindamycin alkylation subunit. Identification of the CC-1065 duocarmycin common pharmacophore. Journal of the American Chemical Society, 1990, 112, 8961-8971.	6.6	148
39	Inverse electron demand Diels-Alder reactions of heterocyclic azadienes: formal total synthesis of streptonigrin. Journal of the American Chemical Society, 1985, 107, 5745-5754.	6.6	145
40	Solution-phase combinatorial synthesis: Convergent multiplication of diversity via the olefin metathesis reaction. Tetrahedron, 1998, 54, 3955-3970.	1.0	145
41	Total Synthesis of Ningalin B Utilizing a Heterocyclic Azadiene Dielsâ^'Alder Reaction and Discovery of a New Class of Potent Multidrug Resistant (MDR) Reversal Agents. Journal of Organic Chemistry, 2000, 65, 2479-2483.	1.7	143
42	Design, Synthesis, and Evaluation of an Î±-Helix Mimetic Library Targeting Proteinâ^'Protein Interactions. Journal of the American Chemical Society, 2009, 131, 5564-5572.	6.6	139
43	Diastereoselective Total Synthesis of the Vancomycin Aglycon with Ordered Atropisomer Equilibrations. Journal of the American Chemical Society, 1999, 121, 3226-3227.	6.6	138
44	Shape-Dependent Catalysis:â€‰ Insights into the Source of Catalysis for the CC-1065 and Duocarmycin DNA Alkylation Reaction. Accounts of Chemical Research, 1999, 32, 1043-1052.	7.6	137
45	A general solution to implementing the 4.pi. participation of 1-aza-1,3-butadienes in Diels-Alder reactions: inverse electron demand Diels-Alder reactions of .alpha..beta.-unsaturated N-benzenesulfonyl imines. Journal of the American Chemical Society, 1989, 111, 1517-1519.	6.6	136
46	Asymmetric Total Synthesis of Vindorosine, Vindoline, and Key Vinblastine Analogues. Journal of the American Chemical Society, 2010, 132, 13533-13544.	6.6	135
47	A Redesigned Vancomycin Engineered for Dual <scp>d</scp>-Ala-<scp>d</scp>-Ala and <scp>d</scp>-Ala-<scp>d</scp>-Lac Binding Exhibits Potent Antimicrobial Activity Against Vancomycin-Resistant Bacteria. Journal of the American Chemical Society, 2011, 133, 13946-13949.	6.6	133
48	(+)- and ent-(-)-Duocarmycin SA and (+)- and ent-(-)-N-BOC-DSA DNA Alkylation Properties.Alkylation Site Models That Accommodate the Offset AT-Rich Adenine N3 Alkylation Selectivity of the Enantiomeric Agents. Journal of the American Chemical Society, 1994, 116, 1635-1656.	6.6	132
49	Asymmetric Total Synthesis of Vindoline. Journal of the American Chemical Society, 2010, 132, 3685-3687.	6.6	132
50	Total Synthesis of Bleomycin A2 and Related Agents. 4. Synthesis of the Disaccharide Subunit 2-O-(3-O-Carbamoyl-.alpha.-D-mannopyranosyl)-L-gulopyranose and Completion of the Total Synthesis of Bleomycin A2. Journal of the American Chemical Society, 1994, 116, 5647-5656.	6.6	127
51	Intramolecular Dielsâ^'Alder and Tandem Intramolecular Dielsâ^'Alder/1,3-Dipolar Cycloaddition Reactions of 1,3,4-Oxadiazoles. Journal of the American Chemical Society, 2002, 124, 11292-11294.	6.6	127
52	Total Synthesis of [Î¨[C(â•S)NH]Tpg⁴]Vancomycin Aglycon, [Î¨[C(â•NH)NH]Tpg⁴]Vancomycin Aglycon, and Related Key Compounds: Reengineering Vancomycin for Dual <scp>d</scp>-Ala-<scp>d</scp>-Ala and <scp>d</scp>-Ala-<scp>d</scp>-Lac Binding. Journal of the American Chemical Society, 2012, 134, 1284-1297.	6.6	125
53	Total Synthesis and Evaluation of [Î¨[CH2NH]Tpg4]Vancomycin Aglycon:â€‰ Reengineering Vancomycin for Dual d-Ala-d-Ala and d-Ala-d-Lac Binding. Journal of the American Chemical Society, 2006, 128, 2885-2892.	6.6	124
54	Total synthesis of (.+-.)-N2-(phenylsulfonyl)-CPI, (.+-.)-CC-1065, (+)-CC-1065, ent-(-)-CC-1065, and the precise, functional agents (.+-.)-CPI-CDPI2, (+)-CPI-CDPI2, and (-)-CPI-CDPI2 [(.+-.)-(3bR*,4aS*)-, (+)-(3bR,4aS)-, and (-)-(3bS,4aR)-deoxy-CC-1065]. Journal of the American Chemical Society, 1988, 110, 4796-4807.	6.6	123

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55	Total Synthesis of Bouvardin, O-Methylbouvardin, and O-Methyl-N9-desmethylbouvardin. Journal of the American Chemical Society, 1994, 116, 8544-8556.	6.6	123
56	Bleomycin: Synthetic and Mechanistic Studies. Angewandte Chemie - International Edition, 1999, 38, 448-476.	7.2	123
57	Streptonigrin and lavendamycin partial structures. Probes for the minimum, potent pharmacophore of streptonigrin, lavendamycin, and synthetic quinoline-5,8-diones. Journal of Medicinal Chemistry, 1987, 30, 1918-1928.	2.9	122
58	Inverse Electron Demand Dielsâ€“Alder Reactions of 1,2,3-Triazines: Pronounced Substituent Effects on Reactivity and Cycloaddition Scope. Journal of the American Chemical Society, 2011, 133, 12285-12292.	6.6	122
59	Total Synthesis of Natural and ent-Fredericamycin A. Journal of the American Chemical Society, 1995, 117, 11839-11849.	6.6	121
60	Redesign of Glycopeptide Antibiotics: Back to the Future. ACS Chemical Biology, 2012, 7, 797-804.	1.6	120
61	An in vitro and in vivo disconnect uncovered through high-throughput identification of botulinum neurotoxin A antagonists. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 2602-2607.	3.3	119
62	Fatty acid amide signaling molecules. Bioorganic and Medicinal Chemistry Letters, 2010, 20, 5959-5968.	1.0	119
63	Synthesis of N-(tert-butyloxycarbonyl)-CBI, CBI, CBI-CDPI1, and CBI-CDPI2: enhanced functional analogs of CC-1065 incorporating the 1,2,9,9a-tetrahydrocyclopropa[c]benz[e]indol-4-one (CBI) left-hand subunit. Journal of Organic Chemistry, 1990, 55, 5823-5832.	1.7	117
64	Generalized Dipeptidomimetic Template:Â Solution Phase Parallel Synthesis of Combinatorial Libraries. Journal of the American Chemical Society, 1996, 118, 2109-2110.	6.6	116
65	Fundamental Relationships between Structure, Reactivity, and Biological Activity for the Duocarmycins and CC-1065. Journal of Medicinal Chemistry, 2009, 52, 5771-5780.	2.9	116
66	Total Syntheses of Vancomycin-Related Glycopeptide Antibiotics and Key Analogues. Chemical Reviews, 2017, 117, 11952-11993.	23.0	116
67	First and Second Generation Total Synthesis of the Teicoplanin Aglycon. Journal of the American Chemical Society, 2001, 123, 1862-1871.	6.6	115
68	TLR4/MD-2 activation by a synthetic agonist with no similarity to LPS. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, E884-93.	3.3	115
69	Diels-Alder reactions of heterocyclic azadienes: total synthesis of PDE I, PDE II, and PDE I dimer methyl ester. Journal of the American Chemical Society, 1987, 109, 2717-2727.	6.6	114
70	The discovery and development of inhibitors of fatty acid amide hydrolase (FAAH). Bioorganic and Medicinal Chemistry Letters, 2011, 21, 4674-4685.	1.0	114
71	Inverse electron demand Diels-Alder reactions of heterocyclic azadienes. Studies on the total synthesis of lavendamycin: investigative studies on the preparation of the CDE .beta.-carboline ring system and AB quinoline-5,8-quinone ring system. Journal of Organic Chemistry, 1985, 50, 5782-5789.	1.7	112
72	The mechanism of action of ramoplanin and enduracidin. Molecular BioSystems, 2006, 2, 69-76.	2.9	112

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73	Diels-Alder reaction of heterocyclic azadienes. I. Thermal cycloaddition of 1,2,4-triazine with enamines: simple preparation of substituted pyridines. Journal of Organic Chemistry, 1981, 46, 2179-2182.	1.7	111
74	The Duocarmycins: Synthetic and Mechanistic Studies. Accounts of Chemical Research, 1995, 28, 20-29.	7.6	111
75	Intramolecular Dielsâ^'Alder/1,3-Dipolar Cycloaddition Cascade of 1,3,4-Oxadiazoles. Journal of the American Chemical Society, 2006, 128, 10589-10595.	6.6	111
76	Total Synthesis of (+)-Fendleridine (Aspidoalbidine) and (+)-1-Acetylaspidoalbidine. Journal of the American Chemical Society, 2010, 132, 3009-3012.	6.6	111
77	Fundamental Role of the Fostriecin Unsaturated Lactone and Implications for Selective Protein Phosphatase Inhibition. Journal of the American Chemical Society, 2003, 125, 15694-15695.	6.6	110
78	Inhibition of Oleamide Hydrolase Catalyzed Hydrolysis of the Endogenous Sleep-Inducing Lipidcis-9-Octadecenamide. Journal of the American Chemical Society, 1996, 118, 5938-5945.	6.6	109
79	Total Synthesis of Fostriecin (CI-920). Journal of the American Chemical Society, 2001, 123, 4161-4167.	6.6	109
80	Inverse electron demand Diels-Alder reactions of 3,6-bis(methylthio)-1,2,4,5-tetrazine. 1,2-Diazine introduction and direct implementation of a divergent 1,2,4,5-tetrazine .fwdarw. 1,2-diazine .fwdarw. benzene (indoline/indole) Diels-Alder strategy. Journal of Organic Chemistry, 1988, 53, 1415-1423.	1.7	108
81	An alternative and convenient strategy for generation of substantial quantities of singly 5â€²-32p-end-labeled double-stranded DNA for binding studies: Development of a protocol for examination of functional features of (+)-CC-1065 and the duocarmycins that contribute to their sequence-selective DNA alkylation properties. Tetrahedron, 1991, 47, 2661-2682.	1.0	108
82	Total Synthesis of (â^')- andent-(+)-Vindoline. Organic Letters, 2005, 7, 4539-4542.	2.4	107
83	Synthesis and preliminary evaluation of agents incorporating the pharmacophore of the duocarmycin/pyrindamycin alkylation subunit: identification of the CC-1065/duocarmycin common pharmacophore. Journal of Organic Chemistry, 1990, 55, 4499-4502.	1.7	106
84	Total synthesis of azafluoranthene alkaloids: rufescine and imeluteine. Journal of Organic Chemistry, 1984, 49, 4050-4055.	1.7	105
85	Intramolecular Diels-Alder reactions of 1,2-diazines: general indoline synthesis. Studies on the preparation of the central and right-hand segments of CC-1065. Journal of Organic Chemistry, 1984, 49, 2240-2245.	1.7	105
86	Trifluoromethyl ketone inhibitors of fatty acid amide hydrolase: A probe of structural and conformational features contributing to inhibition. Bioorganic and Medicinal Chemistry Letters, 1999, 9, 265-270.	1.0	104
87	Total synthesis of lavendamycin methyl ester. Journal of Organic Chemistry, 1985, 50, 5790-5795.	1.7	102
88	Thermal reactions of cyclopropenone ketals. Key mechanistic features and scope of the cycloaddition reactions of delocalized singlet vinylcarbenes: three-carbon 1,1-/1,3-dipoles. Journal of the American Chemical Society, 1986, 108, 6695-6713.	6.6	102
89	Synthesis of the Vancomycin CD and DE Ring Systems. Journal of Organic Chemistry, 1997, 62, 4721-4736.	1.7	102
90	Total Synthesis of Phomazarin. Journal of the American Chemical Society, 1999, 121, 2471-2477.	6.6	102

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91	Discovery of an exceptionally potent and selective class of fatty acid amide hydrolase inhibitors enlisting proteome-wide selectivity screening: concurrent optimization of enzyme inhibitor potency and selectivity. Bioorganic and Medicinal Chemistry Letters, 2005, 15, 1423-1428.	1.0	102
92	A Pd(0)-Mediated Indole (Macro)cyclization Reaction. Journal of the American Chemical Society, 2013, 135, 1600-1606.	6.6	102
93	Total Synthesis of Ningalin D. Journal of the American Chemical Society, 2005, 127, 10767-10770.	6.6	101
94	Fatty acid amide hydrolase substrate specificity. Bioorganic and Medicinal Chemistry Letters, 2000, 10, 2613-2616.	1.0	100
95	Total Synthesis of Chloropeptin II (Complestatin) and Chloropeptin I. Journal of the American Chemical Society, 2009, 131, 16036-16038.	6.6	99
96	Catalysis of the CC-1065 and duocarmycin DNA alkylation reaction: DNA binding induced conformational change in the agent results in activation. Bioorganic and Medicinal Chemistry, 1997, 5, 263-276.	1.4	98
97	Structure Determination of an Endogenous Sleep-Inducing Lipid,cis-9-Octadecenamide (Oleamide):Â A Synthetic Approach to the Chemical Analysis of Trace Quantities of a Natural Product. Journal of the American Chemical Society, 1996, 118, 580-590.	6.6	97
98	The fatty acid amide hydrolase (FAAH) inhibitor PFâ€3845 acts in the nervous system to reverse LPSâ€induced tactile allodynia in mice. British Journal of Pharmacology, 2012, 165, 2485-2496.	2.7	96
99	Total Syntheses of (â^')-Kopsifoline D and (â^')-Deoxoapodine: Divergent Total Synthesis via Late-Stage Key Strategic Bond Formation. Journal of the American Chemical Society, 2014, 136, 3312-3317.	6.6	95
100	Total Synthesis, Structure Revision, and Absolute Configuration of (+)-Yatakemycin. Journal of the American Chemical Society, 2004, 126, 8396-8398.	6.6	94
101	Comprehensive Peptidomimetic Libraries Targeting Proteinâ€"Protein Interactions. Accounts of Chemical Research, 2012, 45, 1698-1709.	7.6	94
102	Thermal cycloaddition of dimethyl 1,2,4,5-tetrazine-3,6-dicarboxylate with electron-rich olefins: 1,2-diazine and pyrrole introduction. Preparation of octamethylporphin (OMP). Journal of Organic Chemistry, 1984, 49, 4405-4409.	1.7	92
103	Total Synthesis of Bleomycin A2 and Related Agents. 1. Synthesis and DNA Binding Properties of the Extended C-Terminus: Tripeptide S, Tetrapeptide S, Pentapeptide S, and Related Agents. Journal of the American Chemical Society, 1994, 116, 5607-5618.	6.6	89
104	Thiazole orange as the fluorescent intercalator in a high resolution fid assay for determining DNA binding affinity and sequence selectivity of small molecules. Bioorganic and Medicinal Chemistry, 2001, 9, 2511-2518.	1.4	89
105	Optimization of the Central Heterocycle of Î±-Ketoheterocycle Inhibitors of Fatty Acid Amide Hydrolase. Journal of Medicinal Chemistry, 2008, 51, 4392-4403.	2.9	89
106	A detailed, convenient preparation of dimethyl 1,2,4,5-tetrazine-3,6-dicarboxylate. Journal of Organic Chemistry, 1985, 50, 5377-5379.	1.7	88
107	Total synthesis of cycloisodityrosine, RA-VII, deoxybouvardin, and N29-desmethyl-RA-VII: Identification of the pharmacophore and reversal of the subunit functional roles. Journal of the American Chemical Society, 1993, 115, 3420-3430.	6.6	88
108	Total Synthesis of [Î¨[C(â•NH)NH]Tpg⁴]Vancomycin and its (4-Chlorobiphenyl)methyl Derivative: Impact of Peripheral Modifications on Vancomycin Analogues Redesigned for Dual <scp>d</scp>-Ala-<scp>d</scp>-Ala and <scp>d</scp>-Ala-<scp>d</scp>-Lac Binding. Journal of the American Chemical Society, 2014, 136, 13522-13525.	6.6	88

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109	Room-temperature, endo-specific 1-aza-1,3-butadiene Diels-Alder reactions: acceleration of the LUMOdiene-controlled [4 + 2] cycloaddition reactions through noncomplementary aza diene substitution. Journal of Organic Chemistry, 1990, 55, 2999-3000.	1.7	87
110	Regioselective Inverse Electron Demand Dielsâ^'Alder Reactions ofN-Acyl 6-Amino-3-(methylthio)-1,2,4,5-tetrazines. Journal of Organic Chemistry, 1998, 63, 6329-6337.	1.7	87
111	Total Synthesis of the Ristocetin Aglycon. Journal of the American Chemical Society, 2004, 126, 4310-4317.	6.6	87
112	Diels-Alder reaction of heterocyclic azadienes. 2. "Catalytic" Diels-Alder reaction of in situ generated enamines with 1,2,4-triazines: general pyridine annulation. Journal of Organic Chemistry, 1982, 47, 895-897.	1.7	86
113	Î±-Keto heterocycle inhibitors of fatty acid amide hydrolase: carbonyl group modification and Î±-substitution. Bioorganic and Medicinal Chemistry Letters, 2001, 11, 1517-1520.	1.0	86
114	Diastereoselective Dielsâ^'Alder Reactions ofN-Sulfonyl-1-aza-1,3-butadienes with Optically Active Enol Ethers:Â An Asymmetric Variant of the 1-Azadiene Dielsâ^'Alder Reaction. Journal of the American Chemical Society, 2006, 128, 2587-2593.	6.6	86
115	Unique Small Molecule Entry Inhibitors of Hemorrhagic Fever Arenaviruses. Journal of Biological Chemistry, 2008, 283, 18734-18742.	1.6	86
116	Synthesis and evaluation of aborted and extended CC-1065 functional analogs: (+)- and (-)-CPI-PDE-I1, (+)- and (-)-CPI-CDPI1, and (.+-.)-, (+)-, and (-)-CPI-CDPI3. Preparation of key partial structures and definition of an additional functional role of the CC-1065 central and right-hand subunits. Journal of the American Chemical Society, 1990, 112, 4623-4632.	6.6	85
117	Total Synthesis of (â^')- andent-(+)-Vindorosine: Tandem Intramolecular Diels-Alder/1,3-Dipolar Cycloaddition of 1,3,4-Oxadiazoles. Angewandte Chemie - International Edition, 2006, 45, 620-622.	7.2	85
118	Inverse Electron Demand Dielsâ€"Alder Reactions of Heterocyclic Azadienes, 1-Aza-1,3-Butadienes, Cyclopropenone Ketals, and Related Systems. A Retrospective. Journal of Organic Chemistry, 2019, 84, 9397-9445.	1.7	85
119	Isolation and characterization of the duocarmycin-adenine DNA adduct. Journal of the American Chemical Society, 1991, 113, 6645-6649.	6.6	84
120	Total synthesis of (+)-duocarmycin SA. Journal of the American Chemical Society, 1992, 114, 10056-10058.	6.6	84
121	Molecular basis for sequence selective DNA alkylation by (+)- and ent-(â^')-CC-1065 and related agents: Alkylation site models that accommodate the offset AT-rich adenine N3 alkylation selectivity. Bioorganic and Medicinal Chemistry, 1994, 2, 115-135.	1.4	84
122	CBI-TMI: Synthesis and Evaluation of a Key Analog of the Duocarmycins. Validation of a Direct Relationship between Chemical Solvolytic Stability and Cytotoxic Potency and Confirmation of the Structural Features Responsible for the Distinguishing Behavior of Enantiomeric Pairs of Agents. Journal of the American Chemical Society, 1994, 116, 7996-8006.	6.6	84
123	Total synthesis of (+)-CC-1065 and ent-(-)-CC-1065. Journal of the American Chemical Society, 1988, 110, 1321-1323.	6.6	83
124	Binding and Inactivation Mechanism of a Humanized Fatty Acid Amide Hydrolase by Î±-Ketoheterocycle Inhibitors Revealed from Cocrystal Structures. Journal of the American Chemical Society, 2009, 131, 10497-10506.	6.6	83
125	DNA Alkylation Properties of Yatakemycin. Journal of the American Chemical Society, 2003, 125, 10971-10976.	6.6	82
126	Tandem Intramolecular Dielsâ€"Alder/1,3-Dipolar Cycloaddition Cascade of 1,3,4-Oxadiazoles: Initial Scope and Applications. Accounts of Chemical Research, 2016, 49, 241-251.	7.6	82

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127	Total synthesis of (.+-.)-cis and (.+-.)-trans-Trikentrin A: Diels-Alder reactions of heteroaromatic azadienes. Journal of the American Chemical Society, 1991, 113, 4230-4234.	6.6	81
128	A solution-phase strategy for the synthesis of chemical libraries containing small organic molecules: A universal and dipeptide mimetic template. Bioorganic and Medicinal Chemistry, 1996, 4, 727-737.	1.4	80
129	Total Synthesis of Piericidin A1 and B1. Journal of the American Chemical Society, 2005, 127, 15704-15705.	6.6	80
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