Dale L Boger

List of Publications by Citations

526 papers	30,751 citations	89 h-index	137 g-index
552 ext. papers	33,120 ext. citations	9.1 avg, IF	7.28 L-index

#	Paper	IF	Citations
526	Molecular characterization of an enzyme that degrades neuromodulatory fatty-acid amides. *Nature*, **1996**, 384, 83-7	50.4	1748
525	Diels-Alder reactions of heterocyclic aza dienes. Scope and applications. *Chemical Reviews*, **1986**, 86, 781-793	68.1	554
524	Diels-alder reactions of azadienes. *Tetrahedron*, **1983**, 39, 2869-2939	2.4	539
523	A simple, high-resolution method for establishing DNA binding affinity and sequence selectivity. *Journal of the American Chemical Society*, **2001**, 123, 5878-91	16.4	468
522	Total Syntheses of Ningalin A, Lamellarin O, Lukianol A, and Permethyl Storniamide A Utilizing Heterocyclic Azadiene Diels–Alder Reactions. *Journal of the American Chemical Society*, **1999**, 121, 54-62	16.4	359
521	Discovering potent and selective reversible inhibitors of enzymes in complex proteomes. *Nature Biotechnology*, **2003**, 21, 687-91	44.5	318
520	Mechanisms of in situ activation for DNA-targeting antitumor agents. *Chemical Reviews*, **2002**, 102, 2477-95	46.1	305
519	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, 441-8	4.7	296
518	CC-1065 and the Duocarmycins: Understanding their Biological Function through Mechanistic Studies. *Angewandte Chemie International Edition in English*, **1996**, 35, 1438-1474		289
517	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, 3830-5	11.5	272
516	Total synthesis of vinblastine, vincristine, related natural products, and key structural analogues. *Journal of the American Chemical Society*, **2009**, 131, 4904-16	16.4	247
515	Fe(III)/NaBH4-mediated free radical hydrofluorination of unactivated alkenes. *Journal of the American Chemical Society*, **2012**, 134, 13588-91	16.4	237
514	A fluorescent intercalator displacement assay for establishing DNA binding selectivity and affinity. *Accounts of Chemical Research*, **2004**, 37, 61-9	24.3	237
513	CC-1065 and the Duocarmycins: Synthetic Studies. *Chemical Reviews*, **1997**, 97, 787-828	68.1	234
512	Iron(III)/NaBH4-mediated additions to unactivated alkenes: synthesis of novel 20'-vinblastine analogues. *Organic Letters*, **2012**, 14, 1428-31	6.2	216
511	The sleep-inducing lipid oleamide deconvolutes gap junction communication and calcium wave transmission in glial cells. *Journal of Cell Biology*, **1997**, 139, 1785-92	7.3	210
510	Sequence-selective DNA recognition: natural products and nature's lessons. *Chemistry and Biology*, **2004**, 11, 1607-17		194

509	Discovery of a potent, selective, and efficacious class of reversible alpha-ketoheterocycle inhibitors of fatty acid amide hydrolase effective as analgesics. *Journal of Medicinal Chemistry*, **2005**, 48, 1849-56	8.3	192
508	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	16.4	179
507	Total Synthesis of Distamycin A and 2640 Analogues:´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	16.4	178
506	Total synthesis of prodigiosin, prodigiosene, and desmethoxyprodigiosin: Diels-Alder reactions of heterocyclic azadienes and development of an effective palladium(II)-promoted 2,2Pbipyrrole coupling procedure. *Journal of Organic Chemistry*, **1988**, 53, 1405-1415	4.2	174
505	Acyl radicals: intermolecular and intramolecular alkene addition reactions. *Journal of Organic Chemistry*, **1992**, 57, 1429-1443	4.2	166
504	Novel Solution Phase Strategy for the Synthesis of Chemical Libraries Containing Small Organic Molecules. *Journal of the American Chemical Society*, **1996**, 118, 2567-2573	16.4	164
503	Direct coupling of catharanthine and vindoline to provide vinblastine: total synthesis of (+)- and ent-(-)-vinblastine. *Journal of the American Chemical Society*, **2008**, 130, 420-1	16.4	163
502	Solution-phase combinatorial libraries: modulating cellular signaling by targeting protein-protein or protein-DNA interactions. *Angewandte Chemie - International Edition*, **2003**, 42, 4138-76	16.4	159
501	Total Synthesis of the Vancomycin Aglycon. *Journal of the American Chemical Society*, **1999**, 121, 10004-10011	16.4	157
500	Total synthesis of (-)- and ent-(+)-vindoline and related alkaloids. *Journal of the American Chemical Society*, **2006**, 128, 10596-612	16.4	156
499	Partitioning the loss in vancomycin binding affinity for D-Ala-D-Lac into lost H-bond and repulsive lone pair contributions. *Journal of the American Chemical Society*, **2003**, 125, 9314-5	16.4	149
498	Elucidation of fatty acid amide hydrolase inhibition by potent alpha-ketoheterocycle derivatives from Monte Carlo simulations. *Journal of the American Chemical Society*, **2005**, 127, 17377-84	16.4	143
497	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	16.4	142
496	Chemistry and biology of ramoplanin: a lipoglycodepsipeptide with potent antibiotic activity. *Chemical Reviews*, **2005**, 105, 449-76	68.1	141
495	Vancomycin, teicoplanin, and ramoplanin: synthetic and mechanistic studies. *Medicinal Research Reviews*, **2001**, 21, 356-81	14.4	137
494	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	4.2	137
493	Asymmetric total synthesis of ent-(-)-roseophilin: assignment of absolute configuration. *Journal of the American Chemical Society*, **2001**, 123, 8515-9	16.4	133
492	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	16.4	133

491	Design, synthesis, and evaluation of an alpha-helix mimetic library targeting protein-protein interactions. *Journal of the American Chemical Society*, **2009**, 131, 5564-72	16.4	131
490	Shape-Dependent Catalysis: Insights into the Source of Catalysis for the CC-1065 and Duocarmycin DNA Alkylation Reaction. *Accounts of Chemical Research*, **1999**, 32, 1043-1052	24.3	131
489	Total synthesis of ningalin B utilizing a heterocyclic azadiene Diels-Alder reaction and discovery of a new class of potent multidrug resistant (MDR) reversal agents. *Journal of Organic Chemistry*, **2000**, 65, 2479-83	4.2	126
488	Diastereoselective Total Synthesis of the Vancomycin Aglycon with Ordered Atropisomer Equilibrations. *Journal of the American Chemical Society*, **1999**, 121, 3226-3227	16.4	126
487	Asymmetric total synthesis of vindoline. *Journal of the American Chemical Society*, **2010**, 132, 3685-7	16.4	125
486	(+)- 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	16.4	124
485	Inverse electron demand Diels-Alder reactions of heterocyclic azadienes: formal total synthesis of streptonigrin. *Journal of the American Chemical Society*, **1985**, 107, 5745-5754	16.4	124
484	Asymmetric total synthesis of vindorosine, vindoline, and key vinblastine analogues. *Journal of the American Chemical Society*, **2010**, 132, 13533-44	16.4	123
483	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	16.4	119
482	A redesigned vancomycin engineered for dual D-Ala-D-ala And D-Ala-D-Lac binding exhibits potent antimicrobial activity against vancomycin-resistant bacteria. *Journal of the American Chemical Society*, **2011**, 133, 13946-9	16.4	118
481	Peripheral modifications of [[CHNH]Tpg]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	11.5	116
480	Intramolecular Diels-Alder and tandem intramolecular Diels-Alder/1,3-dipolar cycloaddition reactions of 1,3,4-oxadiazoles. *Journal of the American Chemical Society*, **2002**, 124, 11292-4	16.4	116
479	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, 1918-28	8.3	116
478	Total synthesis of vinblastine, related natural products, and key analogues and development of inspired methodology suitable for the systematic study of their structure-function properties. *Accounts of Chemical Research*, **2015**, 48, 653-62	24.3	114
477	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	16.4	114
476	Total synthesis of [[C(?S)NH]Tpg4]vancomycin aglycon, [[C(?NH)NH]Tpg4]vancomycin aglycon, and related key compounds: reengineering vancomycin for dual D-Ala-D-Ala and D-Ala-D-Lac binding. *Journal of the American Chemical Society*, **2012**, 134, 1284-97	16.4	113
475	Total Synthesis of Bouvardin, O-Methylbouvardin, and O-Methyl-N9-desmethylbouvardin. *Journal of the American Chemical Society*, **1994**, 116, 8544-8556	16.4	111
474	Total synthesis and evaluation of [Psi[CH2NH]Tpg4]vancomycin aglycon: reengineering vancomycin for dual D-Ala-D-Ala and D-Ala-D-Lac binding. *Journal of the American Chemical Society*, **2006**, 128, 2885-92	16.4	110

473	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	4.2	110
472	Redesign of glycopeptide antibiotics: back to the future. *ACS Chemical Biology*, **2012**, 7, 797-804	4.9	109
471	Fatty acid amide signaling molecules. *Bioorganic and Medicinal Chemistry Letters*, **2010**, 20, 5959-68	2.9	107
470	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, 2602-7	11.5	106
469	Total Synthesis of Natural and ent-Fredericamycin A. *Journal of the American Chemical Society*, **1995**, 117, 11839-11849	16.4	106
468	The discovery and development of inhibitors of fatty acid amide hydrolase (FAAH). *Bioorganic and Medicinal Chemistry Letters*, **2011**, 21, 4674-85	2.9	105
467	Fundamental relationships between structure, reactivity, and biological activity for the duocarmycins and CC-1065. *Journal of Medicinal Chemistry*, **2009**, 52, 5771-80	8.3	104
466	Bleomycin: Synthetic and Mechanistic Studies. *Angewandte Chemie - International Edition*, **1999**, 38, 448-476	16.4	104
465	Generalized Dipeptidomimetic Template: Solution Phase Parallel Synthesis of Combinatorial Libraries. *Journal of the American Chemical Society*, **1996**, 118, 2109-2110	16.4	104
464	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	16.4	103
463	Fundamental role of the fostriecin unsaturated lactone and implications for selective protein phosphatase inhibition. *Journal of the American Chemical Society*, **2003**, 125, 15694-5	16.4	102
462	An alternative and convenient strategy for generation of substantial quantities of singly 5?-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	2.4	102
461	Intramolecular diels-alder/1,3-dipolar cycloaddition cascade of 1,3,4-oxadiazoles. *Journal of the American Chemical Society*, **2006**, 128, 10589-95	16.4	101
460	First and second generation total synthesis of the teicoplanin aglycon. *Journal of the American Chemical Society*, **2001**, 123, 1862-71	16.4	101
459	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, 265-70	2.9	101
458	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	16.4	101
457	Total synthesis of (-)- and ent-(+)-vindoline. *Organic Letters*, **2005**, 7, 4539-42	6.2	100
456	The Duocarmycins: Synthetic and Mechanistic Studies. *Accounts of Chemical Research*, **1995**, 28, 20-29	24.3	100

455	Inhibition of Oleamide Hydrolase Catalyzed Hydrolysis of the Endogenous Sleep-Inducing Lipid cis-9-Octadecenamide. *Journal of the American Chemical Society*, **1996**, 118, 5938-5945	16.4	100
454	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	4.2	100
453	Total synthesis of (+)-fendleridine (aspidoalbidine) and (+)-1-acetylaspidoalbidine. *Journal of the American Chemical Society*, **2010**, 132, 3009-12	16.4	99
452	Inverse electron demand Diels-Alder reactions of 1,2,3-triazines: pronounced substituent effects on reactivity and cycloaddition scope. *Journal of the American Chemical Society*, **2011**, 133, 12285-92	16.4	96
451	The mechanism of action of ramoplanin and enduracidin. *Molecular BioSystems*, **2006**, 2, 69-76		96
450	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	4.2	95
449	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	11.5	94
448	A Pd(0)-mediated indole (macro)cyclization reaction. *Journal of the American Chemical Society*, **2013**, 135, 1600-6	16.4	94
447	Total synthesis of azafluoranthene alkaloids: rufescine and imeluteine. *Journal of Organic Chemistry*, **1984**, 49, 4050-4055	4.2	94
446	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, 1423-8	2.9	93
445	Total synthesis of fostriecin (CI-920). *Journal of the American Chemical Society*, **2001**, 123, 4161-7	16.4	93
444	Total Synthesis of Phomazarin. *Journal of the American Chemical Society*, **1999**, 121, 2471-2477	16.4	93
443	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	4.2	93
442	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	4.2	93
441	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, 263-76	3.4	92
440	Total synthesis of lavendamycin methyl ester. *Journal of Organic Chemistry*, **1985**, 50, 5790-5795	4.2	92
439	Total synthesis of ningalin D. *Journal of the American Chemical Society*, **2005**, 127, 10767-70	16.4	91
438	Fatty acid amide hydrolase substrate specificity. *Bioorganic and Medicinal Chemistry Letters*, **2000**, 10, 2613-6	2.9	91

437	Total synthesis, structure revision, and absolute configuration of (+)-yatakemycin. *Journal of the American Chemical Society*, **2004**, 126, 8396-8	16.4	89
436	Structure Determination of an Endogenous Sleep-Inducing Lipid, cis-9-Octadecenamide (Oleamide): A Synthetic Approach to the Chemical Analysis of Trace Quantities of a Natural Product. *Journal of the American Chemical Society*, **1996**, 118, 580-590	16.4	89
435	The fatty acid amide hydrolase (FAAH) inhibitor PF-3845 acts in the nervous system to reverse LPS-induced tactile allodynia in mice. *British Journal of Pharmacology*, **2012**, 165, 2485-96	8.6	87
434	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	4.2	87
433	Synthesis of the Vancomycin CD and DE Ring Systems. *Journal of Organic Chemistry*, **1997**, 62, 4721-4736	4.2	86
432	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	16.4	85
431	Diastereoselective Diels-Alder reactions of N-sulfonyl-1-aza-1,3-butadienes with optically active enol ethers: an asymmetric variant of the 1-azadiene Diels-Alder reaction. *Journal of the American Chemical Society*, **2006**, 128, 2587-93	16.4	83
430	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	16.4	83
429	Comprehensive peptidomimetic libraries targeting protein-protein interactions. *Accounts of Chemical Research*, **2012**, 45, 1698-709	24.3	82
428	Optimization of the central heterocycle of alpha-ketoheterocycle inhibitors of fatty acid amide hydrolase. *Journal of Medicinal Chemistry*, **2008**, 51, 4392-403	8.3	81
427	Total synthesis of (-)- and ent-(+)-vindorosine: tandem intramolecular Diels-Alder/1,3-dipolar cycloaddition of 1,3,4-oxadiazoles. *Angewandte Chemie - International Edition*, **2006**, 45, 620-2	16.4	81
426	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	4.2	81
425	Binding and inactivation mechanism of a humanized fatty acid amide hydrolase by alpha-ketoheterocycle inhibitors revealed from cocrystal structures. *Journal of the American Chemical Society*, **2009**, 131, 10497-506	16.4	80
424	alpha-Keto heterocycle inhibitors of fatty acid amide hydrolase: carbonyl group modification and alpha-substitution. *Bioorganic and Medicinal Chemistry Letters*, **2001**, 11, 1517-20	2.9	80
423	Total synthesis of chloropeptin II (complestatin) and chloropeptin I. *Journal of the American Chemical Society*, **2009**, 131, 16036-8	16.4	79
422	Total synthesis of the ristocetin aglycon. *Journal of the American Chemical Society*, **2004**, 126, 4310-7	16.4	79
421	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	4.2	79
420	Total synthesis of natural (+)- [corrected] and ent-(-)-4-desacetoxy-6,7-dihydrovindorosine [corrected] and natural and ent-minovine: oxadiazole tandem intramolecular Diels-Alder/1,3-dipolar cycloaddition reaction. *Organic Letters*, **2005**, 7, 741-4	6.2	78

419	Molecular basis for sequence selective DNA alkylation by (+)- and ent-(-)-CC-1065 and related agents: alkylation site models that accommodate the offset AT-rich adenine N3 alkylation selectivity. *Bioorganic and Medicinal Chemistry*, **1994**, 2, 115-35	3.4	78
418	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	16.4	78
417	Total syntheses of (-)-kopsifoline D and (-)-deoxoapodine: divergent total synthesis via late-stage key strategic bond formation. *Journal of the American Chemical Society*, **2014**, 136, 3312-7	16.4	77
416	Unique small molecule entry inhibitors of hemorrhagic fever arenaviruses. *Journal of Biological Chemistry*, **2008**, 283, 18734-42	5.4	77
415	Total Syntheses of Vancomycin-Related Glycopeptide Antibiotics and Key Analogues. *Chemical Reviews*, **2017**, 117, 11952-11993	68.1	76
414	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, 2511-8	3.4	76
413	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, 727-37	3.4	76
412	DNA alkylation properties of yatakemycin. *Journal of the American Chemical Society*, **2003**, 125, 10971-6	16.4	75
411	Erythropoietin mimetics derived from solution phase combinatorial libraries. *Journal of the American Chemical Society*, **2002**, 124, 544-55	16.4	75
410	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	16.4	75
409	Total synthesis of piericidin A1 and B1. *Journal of the American Chemical Society*, **2005**, 127, 15704-5	16.4	74
408	Regioselective Inverse Electron Demand Diels-Alder Reactions of N-Acyl 6-Amino-3-(methylthio)-1,2,4,5-tetrazines. *Journal of Organic Chemistry*, **1998**, 63, 6329-6337	4.2	74
407	A detailed, convenient preparation of dimethyl 1,2,4,5-tetrazine-3,6-dicarboxylate. *Journal of Organic Chemistry*, **1985**, 50, 5377-5379	4.2	74
406	Total synthesis of [[C(?NH)NH]Tpg(4)]vancomycin and its (4-chlorobiphenyl)methyl derivative: impact of peripheral modifications on vancomycin analogues redesigned for dual D-Ala-D-Ala and D-Ala-D-Lac binding. *Journal of the American Chemical Society*, **2014**, 136, 13522-5	16.4	73
405	Isolation and characterization of the duocarmycin-adenine DNA adduct. *Journal of the American Chemical Society*, **1991**, 113, 6645-6649	16.4	72
404	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	16.4	72
403	Total Synthesis of (+)-Duocarmycin A, epi-(+)-Duocarmycin A and Their Unnatural Enantiomers: Assessment of Chemical and Biological Properties. *Journal of the American Chemical Society*, **1997**, 119, 311-325	16.4	70
402	Two novel 1,2,4,5-tetrazines that participate in inverse electron demand Diels-Alder reactions with an unexpected regioselectivity. *Journal of Organic Chemistry*, **2006**, 71, 185-93	4.2	70

401	An improved synthesis of 1,2,9,9a-tetrahydrocyclopropa[c]benz[e]indol-4-one (CBI): a simplified analog of the CC-1065 alkylation subunit. *Journal of Organic Chemistry*, **1992**, 57, 2873-2876	4.2	70
400	Potent and selective alpha-ketoheterocycle-based inhibitors of the anandamide and oleamide catabolizing enzyme, fatty acid amide hydrolase. *Journal of Medicinal Chemistry*, **2007**, 50, 1058-68	8.3	69
399	Asymmetric total synthesis of (+)- and ent-(-)-yatakemycin and duocarmycin SA: evaluation of yatakemycin key partial structures and its unnatural enantiomer. *Journal of the American Chemical Society*, **2006**, 128, 15683-96	16.4	69
398	Vancomycin and ristocetin models: synthesis via the Ullmann macrocyclization reaction. *Journal of Organic Chemistry*, **1993**, 58, 1425-1433	4.2	69
397	Diels-Alder reactions of N-sulfonyl-1-aza-1,3-butadienes: development of a synthetic approach to the streptonigrone C ring. *Journal of Organic Chemistry*, **1991**, 56, 880-884	4.2	69
396	Total synthesis of (.+-.)-cis and (.+-.)-trans-Trikentrin A: Diels-Alder reactions of heteroaromatic azadienes. *Journal of the American Chemical Society*, **1991**, 113, 4230-4234	16.4	69
395	Total synthesis of (+)-CC-1065 and ent-(-)-CC-1065. *Journal of the American Chemical Society*, **1988**, 110, 1321-1323	16.4	69
394	Reversed and Sandwiched Analogs of Duocarmycin SA: Establishment of the Origin of the Sequence-Selective Alkylation of DNA and New Insights into the Source of Catalysis. *Journal of the American Chemical Society*, **1997**, 119, 4987-4998	16.4	68
393	Total synthesis of anhydrolycorinone utilizing sequential intramolecular Diels-Alder reactions of a 1,3,4-oxadiazole. *Journal of Organic Chemistry*, **2002**, 67, 7361-4	4.2	68
392	Total synthesis of (+)-duocarmycin SA. *Journal of the American Chemical Society*, **1992**, 114, 10056-10058	16.4	68
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