Andrew G Myers

List of Publications by Citations

87 papers	5,764 citations	43 h-index	75 g-index
99 ext. papers	6,308 ext. citations	12.6 avg, IF	5.67 L-index

#	Paper	IF	Citations
87	Development of a decarboxylative palladation reaction and its use in a Heck-type olefination of arene carboxylates. *Journal of the American Chemical Society*, **2002**, 124, 11250-1	16.4	524
86	Pseudoephedrine as a Practical Chiral Auxiliary for the Synthesis of Highly Enantiomerically Enriched Carboxylic Acids, Alcohols, Aldehydes, and Ketones. *Journal of the American Chemical Society*, **1997**, 119, 6496-6511	16.4	511
85	The evolving role of chemical synthesis in antibacterial drug discovery. *Angewandte Chemie - International Edition*, **2014**, 53, 8840-69	16.4	242
84	A convergent enantioselective route to structurally diverse 6-deoxytetracycline antibiotics. *Science*, **2005**, 308, 395-8	33.3	239
83	Mediator kinase inhibition further activates super-enhancer-associated genes in AML. *Nature*, **2015**, 526, 273-276	50.4	226
82	Use of Pseudoephedrine as a Practical Chiral Auxiliary for Asymmetric Synthesis. *Journal of the American Chemical Society*, **1994**, 116, 9361-9362	16.4	217
81	A platform for the discovery of new macrolide antibiotics. *Nature*, **2016**, 533, 338-45	50.4	191
80	Enantioselective synthesis of stephacidin B. *Journal of the American Chemical Society*, **2005**, 127, 5342-4	16.4	170
79	A Convergent Synthetic Route to (+)-Dynemicin A and Analogs of Wide Structural Variability. *Journal of the American Chemical Society*, **1997**, 119, 6072-6094	16.4	164
78	Highly Practical Methodology for the Synthesis of d- and l-β-Amino Acids, N-Protected β-Amino Acids, and N-Methyl-β-amino Acids. *Journal of the American Chemical Society*, **1997**, 119, 656-673	16.4	157
77	Preparation of the Reagent o-Nitrobenzenesulfonylhydrazide. *Journal of Organic Chemistry*, **1997**, 62, 7507	4.2	155
76	Lithium amidotrihydroborate, a powerful new reductant. Transformation of tertiary amides to primary alcohols. *Tetrahedron Letters*, **1996**, 37, 3623-3626	2	151
75	A robust platform for the synthesis of new tetracycline antibiotics. *Journal of the American Chemical Society*, **2008**, 130, 17913-27	16.4	106
74	Practical Syntheses of Enantiomerically Enriched β-Lactones and β-Hydroxy Ketones by the Alkylation of Pseudoephedrine Amides with Epoxides and Their Derivatives. *Journal of Organic Chemistry*, **1996**, 61, 2428-2440	4.2	87
73	Synthesis of cortistatins A, J, K and L. *Nature Chemistry*, **2010**, 2, 886-92	17.6	86
72	Synthesis of highly epimerizable N-protected β-amino aldehydes of high enantiomeric excess. *Tetrahedron Letters*, **2000**, 41, 1359-1362	2	86
71	Stereocontrolled alkylative construction of quaternary carbon centers. *Journal of the American Chemical Society*, **2008**, 130, 13231-3	16.4	84

70	Practical method for the synthesis of D- or L-.alpha.-amino acids by the alkylation of (+)- or (-)-pseudoephedrine glycinamide.. *Journal of the American Chemical Society*, **1995**, 117, 8488-8489	16.4	82
69	A practical, enantioselective synthetic route to a key precursor to the tetracycline antibiotics. *Organic Letters*, **2007**, 9, 3523-5	6.2	78
68	An enantioselective, modular, and general route to the cytochalasins: synthesis of L-696,474 and cytochalasin B. *Proceedings of the National Academy of Sciences of the United States of America*, **2004**, 101, 12048-53	11.5	75
67	Synthesis of a broad array of highly functionalized, enantiomerically pure cyclohexanecarboxylic acid derivatives by microbial dihydroxylation of benzoic acid and subsequent oxidative and rearrangement reactions. *Organic Letters*, **2001**, 3, 2923-6	6.2	74
66	Pseudoephenamine: a practical chiral auxiliary for asymmetric synthesis. *Angewandte Chemie - International Edition*, **2012**, 51, 4568-71	16.4	73
65	A Concise, Stereocontrolled Synthesis of (−)-Saframycin A by the Directed Condensation of α-Amino Aldehyde Precursors. *Journal of the American Chemical Society*, **1999**, 121, 10828-10829	16.4	73
64	DNA Cleavage by Neocarzinostatin Chromophore.Establishing the Intermediacy of Chromophore-Derived Cumulene and Biradical Species and Their Role in Sequence-Specific Cleavage. *Journal of the American Chemical Society*, **1994**, 116, 1670-1682	16.4	73
63	Synthesis of (+)-dynemicin A and analogs of wide structural variability: establishment of the absolute configuration of natural dynemicin A. *Chemistry and Biology*, **1995**, 2, 33-43		71
62	The natural product avrainvillamide binds to the oncoprotein nucleophosmin. *Journal of the American Chemical Society*, **2007**, 129, 14444-51	16.4	69
61	Identification of a novel Michael acceptor group for the reversible addition of oxygen- and sulfur-based nucleophiles. Synthesis and reactivity of the 3-alkylidene-3H-indole 1-oxide function of avrainvillamide. *Journal of the American Chemical Society*, **2003**, 125, 12080-1	16.4	65
60	A solid-supported, enantioselective synthesis suitable for the rapid preparation of large numbers of diverse structural analogues of (-)-saframycin A. *Journal of the American Chemical Society*, **2002**, 124, 12969-71	16.4	63
59	Efficient, stereoselective synthesis of trans-2,5-disubstituted morpholines. *Organic Letters*, **2004**, 6, 1045-7	6.2	62
58	Development of an enantioselective synthetic route to neocarzinostatin chromophore and its use for multiple radioisotopic incorporation. *Journal of the American Chemical Society*, **2002**, 124, 5380-401	16.4	61
57	Greatly Simplified Procedures for the Synthesis of alpha-Amino Acids by the Direct Alkylation of Pseudoephedrine Glycinamide Hydrate. *Journal of Organic Chemistry*, **1999**, 64, 3322-3327	4.2	60
56	Kedarcidin chromophore: synthesis of its proposed structure and evidence for a stereochemical revision. *Journal of the American Chemical Society*, **2007**, 129, 5381-3	16.4	57
55	Asymmetric Synthesis of 1,3-Dialkyl-Substituted Carbon Chains of any Stereochemical Configuration by an Iterable Process. *Synlett*, **1997**, 1997, 457-459	2.2	54
54	Development of a platform for the discovery and practical synthesis of new tetracycline antibiotics. *Current Opinion in Chemical Biology*, **2016**, 32, 48-57	9.7	52
53	Evidence for the rapid conversion of stephacidin B into the electrophilic monomer avrainvillamide in cell culture. *Journal of the American Chemical Society*, **2007**, 129, 4898-9	16.4	49

52	Single-Step Process for the Reductive Deoxygenation of Unhindered Alcohols. *Journal of the American Chemical Society*, **1997**, 119, 8572-8573	16.4	48
51	Synthesis and evaluation of bishydroquinone derivatives of (-)-saframycin A: identification of a versatile molecular template imparting potent antiproliferative activity. *Journal of the American Chemical Society*, **2001**, 123, 5114-5	16.4	48
50	Synthesis of 1,6-didehydro[10]annulene. Observation of its exceptionally facile rearrangement to form the biradical 1,5-dehydronaphthalene. *Journal of the American Chemical Society*, **1992**, 114, 10986-10987	16.4	48
49	On the inherent instability of alpha-amino alphaSfluoro ketones. Evidence for their transformation to reactive oxyvinyliminium ion intermediates. *Organic Letters*, **2001**, 3, 425-8	6.2	47
48	Preparation of Chiral, C-Protected Amino Aldehydes of High Optical Purity and Their Use as Condensation Components in a Linear Synthesis Strategy. *Journal of the American Chemical Society*, **1999**, 121, 8401-8402	16.4	47
47	A practical, convergent route to the key precursor to the tetracycline antibiotics. *Chemical Science*, **2011**, 2, 1710-1718	9.4	46
46	Synthesis of the Kedarcidin Core Structure by a Transannular Cyclization Pathway Financial support from the National Institutes of Health is gratefully acknowledged. *Angewandte Chemie - International Edition*, **2000**, 39, 2732-2735	16.4	45
45	A versatile synthesis of substituted isoquinolines. *Angewandte Chemie - International Edition*, **2011**, 50, 10409-13	16.4	43
44	A method for the preparation of differentiated trans-1,2-diol derivatives with enantio- and diastereocontrol. *Journal of the American Chemical Society*, **2009**, 131, 5763-5	16.4	40
43	Observations Concerning the Existence and Reactivity of Free Amino Aldehydes as Chemical Intermediates: Evidence for Epimerization-Free Adduct Formation with Various Nucleophiles. *Journal of the American Chemical Society*, **2000**, 122, 3236-3237	16.4	40
42	Enantioselective synthesis of kedarcidin chromophore aglycon in differentially protected form. *Angewandte Chemie - International Edition*, **2002**, 41, 1062-7	16.4	39
41	Component-based syntheses of trioxacarcin A, DC-45-A1 and structural analogues. *Nature Chemistry*, **2013**, 5, 886-93	17.6	36
40	Enantioselective synthesis of (-)-terpestacin and (-)-fusaproliferin: clarification of optical rotational measurements and absolute configurational assignments establishes a homochiral structural series. *Journal of the American Chemical Society*, **2002**, 124, 4230-2	16.4	36
39	Zur Rolle der chemischen Synthese in der Entwicklung antibakterieller Wirkstoffe. *Angewandte Chemie*, **2014**, 126, 8984-9014	3.6	35
38	Storable arylpalladium(II) reagents for alkene labeling in aqueous media. *Journal of the American Chemical Society*, **2011**, 133, 15870-3	16.4	35
37	Stereocontrolled synthesis of syn-Hydroxy-amino acids by direct aldolization of pseudoephenamine glycinamide. *Angewandte Chemie - International Edition*, **2014**, 53, 4642-7	16.4	34
36	Pseudoephenamine: A Practical Chiral Auxiliary for Asymmetric Synthesis. *Angewandte Chemie*, **2012**, 124, 4646-4649	3.6	32
35	A Comparison of DNA Cleavage by Neocarzinostatin Chromophore and Its Aglycon: Evaluating the Role of the Carbohydrate Residue. *Journal of the American Chemical Society*, **1997**, 119, 2965-2972	16.4	31

34	Methodological Advances Permit the Stereocontrolled Construction of Diverse Fully Synthetic Tetracyclines Containing an All-Carbon Quaternary Center at Position C5a. *Tetrahedron*, **2011**, 67, 9853-9869	2.4	29
33	Enantioselective synthesis of N1999A2. *Journal of the American Chemical Society*, **2006**, 128, 14825-7	16.4	27
32	Synthesis of quaternary α-methyl α-amino acids by asymmetric alkylation of pseudoephenamine alaninamide pivaldimine. *Organic Letters*, **2013**, 15, 3134-7	6.2	25
31	Transcriptional response pathways in a yeast strain sensitive to saframycin a and a more potent analog: evidence for a common basis of activity. *Chemistry and Biology*, **2002**, 9, 607-18		25
30	Synthetic and theoretical studies of cyclobuta[1,2:3,4]dicyclopentene. Organocobalt intermediates in the construction of the unsaturated carbon skeleton and their transformation into novel cobaltacyclic complexes by C-C insertion. *Journal of Organic Chemistry*, **2004**, 69, 2516-25	4.2	23
29	Evidence for facile atropisomerism and simple (non-nucleophilic) biradical-forming cycloaromatization within kedarcidin chromophore aglycon. *Journal of the American Chemical Society*, **2002**, 124, 4583-5	16.4	23
28	One-step construction of the pentacyclic skeleton of saframycin A from a "Trimer" of alpha-amino aldehydes. *Organic Letters*, **2000**, 2, 3019-22	6.2	23
27	Tetracyclines Modify Translation by Targeting Key Human rRNA Substructures. *Cell Chemical Biology*, **2018**, 25, 1506-1518.e13	8.2	22
26	Synthesis of C-protected alpha-amino aldehydes of high enantiomeric excess from highly epimerizable N-protected alpha-amino aldehydes. *Organic Letters*, **2000**, 2, 3337-40	6.2	21
25	Synthesis of the naphthoic acid component of kedarcidin chromophore by routes employing photochemical and thermal electrocyclic ring closure reactions. *Tetrahedron Letters*, **1997**, 38, 4363-4366	2	20
24	Synthesis of D-Desosamine and Analogs by Rapid Assembly of 3-Amino Sugars. *Angewandte Chemie - International Edition*, **2016**, 55, 523-7	16.4	19
23	A synthetic antibiotic class overcoming bacterial multidrug resistance. *Nature*, **2021**, 599, 507-512	50.4	18
22	A simple, scalable synthetic route to (+)- and (-)-pseudoephenamine. *Organic Letters*, **2013**, 15, 5594-7	6.2	17
21	A convenient, NMR-based method for the analysis of diastereomeric mixtures of pseudoephedrine amides. *Organic Letters*, **2007**, 9, 355-7	6.2	17
20	Tetracyclines promote survival and fitness in mitochondrial disease models. *Nature Metabolism*, **2021**, 3, 33-42	14.6	16
19	Interactions of the natural product (+)-avrainvillamide with nucleophosmin and exportin-1 Mediate the cellular localization of nucleophosmin and its AML-associated mutants. *ACS Chemical Biology*, **2015**, 10, 855-63	4.9	15
18	Large-scale preparation of key building blocks for the manufacture of fully synthetic macrolide antibiotics. *Journal of Antibiotics*, **2018**, 71, 318-325	3.7	13
17	Practical methodology for the asymmetric synthesis of organofluorine compounds. *Tetrahedron Letters*, **1998**, 39, 1335-1338	2	12

16	Enantioselective Synthesis of Kedarcidin Chromophore Aglycon in Differentially Protected Form. *Angewandte Chemie*, **2002**, 114, 1104-1109	3.6	12
15	Synthesis of L-kedarosamine in protected form and its efficient incorporation into an advanced intermediate to kedarcidin chromophore. *Organic Letters*, **2007**, 9, 1923-5	6.2	11
14	Anti-proliferative activity of the NPM1 interacting natural product avrainvillamide in acute myeloid leukemia. *Cell Death and Disease*, **2016**, 7, e2497	9.8	11
13	A Versatile Synthesis of Substituted Isoquinolines. *Angewandte Chemie*, **2011**, 123, 10593-10597	3.6	9
12	Discovery of Macrolide Antibiotics Effective against Multi-Drug Resistant Gram-Negative Pathogens. *Accounts of Chemical Research*, **2021**, 54, 1635-1645	24.3	8
11	A Practical, Component-Based Synthetic Route to Methylthiolincosamine Permitting Facile Northern-Half Diversification of Lincosamide Antibiotics. *Journal of the American Chemical Society*, **2021**, 143, 6829-6835	16.4	7
10	Synthesis of D-Desosamine and Analogs by Rapid Assembly of 3-Amino Sugars. *Angewandte Chemie* , **2016**, 128, 533-537	3.6	5
9	Stereocontrolled Synthesis of syn-Hydroxy-Amino Acids by Direct Aldolization of Pseudoephenamine Glycinamide. *Angewandte Chemie*, **2014**, 126, 4730-4735	3.6	5
8	Diastereoselective Michael-Claisen Cyclizations of Oxa-unsaturated Ketones en Route to 5-Oxatetracyclines. *Organic Letters*, **2017**, 19, 206-209	6.2	4
7	Practical Gram-Scale Synthesis of Iboxamycin, a Potent Antibiotic Candidate. *Journal of the American Chemical Society*, **2021**, 143, 11019-11025	16.4	4
6	Crystalline guanine adducts of natural and synthetic trioxacarcins suggest a common biological mechanism and reveal a basis for the instability of trioxacarcin A. *Bioorganic and Medicinal Chemistry Letters*, **2014**, 24, 4410-4413	2.9	3
5	A Synthetic Antibiotic Scaffold Effective Against Multidrug-Resistant Bacterial Pathogens		2
4	Asymmetric Synthesis of Amino Acids by the Alkylation of Pseudoephedrine Glycinamide: L-Allylglycine and N-Boc-L-Allylglycine57-57		
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