David A Vosburg

List of Publications by Year
in descending order

37 papers	2,117 citations	304743 22 h-index	289244 40 g-index
43 all docs	43 docs citations	43 times ranked	2307 citing authors

#	Article	IF	Citations
1	Nature's Inventory of Halogenation Catalysts:â€‰ Oxidative Strategies Predominate. Chemical Reviews, 2006, 106, 3364-3378.	47.7	487
2	Cryptic chlorination by a non-haem iron enzyme during cyclopropyl amino acid biosynthesis. Nature, 2005, 436, 1191-1194.	27.8	303
3	Dynamic thiolationâ€“thioesterase structure of a non-ribosomal peptide synthetase. Nature, 2008, 454, 903-906.	27.8	151
4	An Enantioselective Synthesis of FR182877 Provides a Chemical Rationalization of Its Structure and Affords Multigram Quantities of Its Direct Precursor. Journal of the American Chemical Society, 2003, 125, 5393-5407.	13.7	141
5	A Synthesis of (+)-FR182877, Featuring Tandem Transannular Dielsâ^'Alder Reactions Inspired by a Postulated Biogenesis. Journal of the American Chemical Society, 2002, 124, 4552-4553.	13.7	108
6	Enzymatic Generation of the Antimetabolite Î³,Î³-Dichloroaminobutyrate by NRPS and Mononuclear Iron Halogenase Action in a Streptomycete. Chemistry and Biology, 2006, 13, 1183-1191.	6.0	81
7	Non-uniformly Sampled Double-TROSY hNcaNH Experiments for NMR Sequential Assignments of Large Proteins. Journal of the American Chemical Society, 2006, 128, 5757-5763.	13.7	63
8	Anthraquinones: Versatile Organic Photocatalysts. ChemCatChem, 2020, 12, 3811-3827.	3.7	58
9	Intramolecular Allenolate Acylations in Studies toward a Synthesis of FR182877. Organic Letters, 2001, 3, 4307-4310.	4.6	51
10	Intramolecular Hetero Dielsâ€“Alder Routes to Î³-Carboline Alkaloids. Tetrahedron, 2000, 56, 5329-5335.	1.9	50
11	Postulated Biogenesis of WS9885B and Progress toward an Enantioselective Synthesis. Organic Letters, 1999, 1, 645-648.	4.6	48
12	Dichlorination and Bromination of a Threonyl-S-Carrier Protein by the Non-heme FeII Halogenase SyrB2. ChemBioChem, 2006, 7, 748-752.	2.6	48
13	Green, Enzymatic Syntheses of Divanillin and Diapocynin for the Organic, Biochemistry, or Advanced General Chemistry Laboratory. Journal of Chemical Education, 2010, 87, 526-527.	2.3	47
14	Characterization of the Aminocarboxycyclopropane-Forming Enzyme CmaCâ€. Biochemistry, 2007, 46, 359-368.	2.5	45
15	Cooperative Loading and Release Behavior of a Metalâ€“Organic Receptor. Journal of the American Chemical Society, 2015, 137, 1770-1773.	13.7	41
16	Determination of all NOes in 1Hâ€“13Câ€“Me-ILV-Uâ^'2Hâ€“15N Proteins with Two Time-Shared Experiments. Journal of Biomolecular NMR, 2006, 34, 31-40.	2.8	36
17	Radicinin from Cochliobolus sp. inhibits Xylella fastidiosa , the causal agent of Pierceâ€™s Disease of grapevine. Phytochemistry, 2015, 116, 130-137.	2.9	36
18	A Concise Synthesis of Fumagillol. Angewandte Chemie - International Edition, 1999, 38, 971-974.	13.8	35

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19	Canvass: A Crowd-Sourced, Natural-Product Screening Library for Exploring Biological Space. ACS Central Science, 2018, 4, 1727-1741.	11.3	32
20	A Green, Enantioselective Synthesis of Warfarin for the Undergraduate Organic Laboratory. Journal of Chemical Education, 2010, 87, 194-195.	2.3	28
21	â€œClickâ€•and Olefin Metathesis Chemistry in Water at Room Temperature Enabled by Biodegradable Micelles. Journal of Chemical Education, 2013, 90, 1514-1517.	2.3	27
22	Concise stereocontrolled routes to fumagillol, fumagillin, and TNP-470. Chirality, 2003, 15, 156-166.	2.6	25
23	A concise route to isocanthin-6-one. Tetrahedron Letters, 1998, 39, 1111-1112.	1.4	21
24	Teaching Organic Synthesis: A Comparative Case Study Approach. Journal of Chemical Education, 2008, 85, 1519.	2.3	19
25	A Concise, Biomimetic Total Synthesis of (+)-Davanone. Organic Letters, 2009, 11, 2217-2218.	4.6	19
26	Chemoselective Reactions of Citral: Green Syntheses of Natural Perfumes for the Undergraduate Organic Laboratory. Journal of Chemical Education, 2011, 88, 322-324.	2.3	17
27	Solvent-Free Synthesis and Fluorescence of a Thiol-Reactive Sensor for Undergraduate Organic Laboratories. Journal of Chemical Education, 2013, 90, 1685-1687.	2.3	14
28	Concise, diastereoconvergent synthesis of endiandric-type tetracycles by iterative cross coupling. Tetrahedron, 2016, 72, 3790-3794.	1.9	14
29	Two-step, stereoselective synthesis of linalyl oxides by asymmetric allylic O-alkylation. Tetrahedron: Asymmetry, 2010, 21, 2425-2428.	1.8	10
30	Synthesis of cis- and trans-Davanoids: Artemone, Hydroxydavanone, Isodavanone, and Nordavanone. Synthesis, 2013, 45, 1541-1545.	2.3	10
31	How Do I Design a Chemical Reaction To Do Useful Work? Reinvigorating General Chemistry by Connecting Chemistry and Society. Journal of Chemical Education, 2020, 97, 925-933.	2.3	9
32	Self-Assembly, Guest Capture, and NMR Spectroscopy of a Metalâ€“Organic Cage in Water. Journal of Chemical Education, 2016, 93, 368-371.	2.3	8
33	Multicomponent Synthesis of Lidocaine at Room Temperature. Journal of Chemical Education, 2022, 99, 2399-2402.	2.3	7
34	Direct, Biomimetic Synthesis of (+)-Artemone via a Stereoselective, Organocatalytic Cyclization. Synthesis, 2015, 47, 2599-2602.	2.3	6
35	Divergent Dielsâ€“Alder Reactions in the Biosynthesis and Synthesis of Endiandric-Type Tetracycles: A Computational Study. Journal of Organic Chemistry, 2018, 83, 10941-10947.	3.2	6
36	Aqueous Dearomatization/Dielsâ€“Alder Cascade to a Grandifloracin Precursor. Journal of Chemical Education, 2019, 96, 998-1001.	2.3	5

#	Article	IF	Citations
37	Engaging Undergraduates in Sustainability Education and Research. ACS Symposium Series, 2020, , 63-73.	0.5	1