Craig A Townsend

List of Publications by Year in descending order

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234 papers

11,597 citations

54 h-index 91 g-index

238 all docs

238 docs citations

times ranked

238

8254 citing authors

| # | Article | IF | Citations |
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| 1 | Reduced Food Intake and Body Weight in Mice Treated with Fatty Acid Synthase Inhibitors. Science, 2000, 288, 2379-2381. | 12.6 | 906 |
| 2 | Predictive, structure-based model of amino acid recognition by nonribosomal peptide synthetase adenylation domains. Chemistry and Biology, 2000, 7, 211-224. | 6.0 | 746 |
| 3 | Enzymology and Molecular Biology of Aflatoxin Biosynthesis. Chemical Reviews, 1997, 97, 2537-2556. | 47.7 | 256 |
| 4 | Deconstruction of Iterative Multidomain Polyketide Synthase Function. Science, 2008, 320, 243-246. | 12.6 | 202 |
| 5 | New insights into the formation of fungal aromatic polyketides. Nature Reviews Microbiology, 2010, 8, 879-889. | 28.6 | 201 |
| 6 | Structural basis for biosynthetic programming of fungal aromatic polyketide cyclization. Nature, 2009, 461, 1139-1143. | 27.8 | 176 |
| 7 | Identification of a starter unit acyl-carrier protein transacylase domain in an iterative type I polyketide synthase. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 16728-16733. | 7.1 | 164 |
| 8 | Fatty acid synthase inhibition triggers apoptosis during S phase in human cancer cells. Cancer Research, 2003, 63, 7330-7. | 0.9 | 164 |
| 9 | Circular Dichroism and Magnetic Circular Dichroism Spectroscopic Studies of the Non-Heme Ferrous Active Site in Clavaminate Synthase and Its Interaction with α-Ketoglutarate Cosubstrate. Journal of the American Chemical Society, 1998, 120, 743-753. | 13.7 | 152 |
| 10 | Spectroscopic Studies of Substrate Interactions with Clavaminate Synthase 2, a Multifunctional α-KG-Dependent Non-Heme Iron Enzyme: Correlation with Mechanisms and Reactivities. Journal of the American Chemical Society, 2001, 123, 7388-7398. | 13.7 | 150 |
| 11 | Fatty Acid Synthase Inhibition Activates AMP-Activated Protein Kinase in SKOV3 Human Ovarian Cancer Cells. Cancer Research, 2007, 67, 2964-2971. | 0.9 | 145 |
| 12 | The architectures of iterative type I PKS and FAS. Natural Product Reports, 2018, 35, 1046-1069. | 10.3 | 143 |
| 13 | Purification and characterization of clavaminate synthase from Streptomyces clavuligerus: an unusual oxidative enzyme in natural product biosynthesis. Biochemistry, 1990, 29, 6499-6508. | 2.5 | 134 |
| 14 | An externally tunable bacterial band-pass filter. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 10135-10140. | 7.1 | 130 |
| 15 | \hat{l}^2 -Lactam synthetase: A new biosynthetic enzyme. Proceedings of the National Academy of Sciences of the United States of America, 1998, 95, 9082-9086. | 7.1 | 123 |
| 16 | Intrinsic evolutionary constraints on protease structure, enzyme acylation, and the identity of the catalytic triad. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, E653-61. | 7.1 | 121 |
| 17 | Specific abstraction of the 5'S- and 4'-deoxyribosyl hydrogen atoms from DNA by calicheamicin .gamma.1l. Journal of the American Chemical Society, 1992, 114, 9200-9202. | 13.7 | 119 |
| 18 | Non-classical transpeptidases yield insight into new antibacterials. Nature Chemical Biology, 2017, 13, 54-61. | 8.0 | 116 |

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| 19 | Structure and function of an iterative polyketide synthase thioesterase domain catalyzing Claisen cyclization in aflatoxin biosynthesis. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 6246-6251. | 7.1 | 110 |
| 20 | \hat{l}^2 -Lactam formation by a non-ribosomal peptide synthetase during antibiotic biosynthesis. Nature, 2015, 520, 383-387. | 27.8 | 104 |
| 21 | A Method for Prediction of the Locations of Linker Regions within Large Multifunctional Proteins, and Application to a Type I Polyketide Synthase. Journal of Molecular Biology, 2002, 323, 585-598. | 4.2 | 103 |
| 22 | Site-specific atom transfer from DNA to a bound ligand defines the geometry of a DNA-calicheamicin .gamma.11 complex. Journal of the American Chemical Society, 1990, 112, 9669-9670. | 13.7 | 101 |
| 23 | Rational strain improvement for enhanced clavulanic acid production by genetic engineering of the glycolytic pathway in Streptomyces clavuligerus. Metabolic Engineering, 2006, 8, 240-252. | 7.0 | 93 |
| 24 | Two isozymes of clavaminate synthase central to clavulanic acid formation: cloning and sequencing of both genes from Streptomyces clavuligerus. Biochemistry, 1992, 31, 12648-12657. | 2.5 | 92 |
| 25 | Ordering the Reductive and Cytochrome P450 Oxidative Steps in Demethylsterigmatocystin Formation Yields General Insights into the Biosynthesis of Aflatoxin and Related Fungal Metabolites. Journal of the American Chemical Society, 2005, 127, 3724-3733. | 13.7 | 92 |
| 26 | Initial Characterization of a Type I Fatty Acid Synthase and Polyketide Synthase Multienzyme Complex NorS in the Biosynthesis of Aflatoxin B1. Chemistry and Biology, 2002, 9, 981-988. | 6.0 | 90 |
| 27 | Origin of the \hat{I}^2 -Lactam Carbons in Clavulanic Acid from an Unusual Thiamine Pyrophosphate-Mediated Reaction. Journal of the American Chemical Society, 1999, 121, 9223-9224. | 13.7 | 89 |
| 28 | Characterization of the in vitro cyclization chemistry of calicheamicin and its relation to DNA cleavage. Journal of the American Chemical Society, 1990, 112, 4554-4556. | 13.7 | 87 |
| 29 | A New Class of Antituberculosis Agents. Journal of Medicinal Chemistry, 2000, 43, 3304-3314. | 6.4 | 84 |
| 30 | Molecular Characterization of the Cercosporin Biosynthetic Pathway in the Fungal Plant Pathogen <i>Cercospora nicotianae</i> Journal of the American Chemical Society, 2016, 138, 4219-4228. | 13.7 | 82 |
| 31 | Methoxymethyl-directed aryl metalation. Total synthesis of (.+)-averufin. Journal of the American Chemical Society, 1981, 103, 6885-6888. | 13.7 | 81 |
| 32 | Substrate Binding to the α-Ketoglutarate-Dependent Non-Heme Iron Enzyme Clavaminate Synthase 2:  Coupling Mechanism of Oxidative Decarboxylation and Hydroxylation. Journal of the American Chemical Society, 1998, 120, 13539-13540. | 13.7 | 81 |
| 33 | Application of a Flexible Synthesis of (5R)-Thiolactomycin To Develop New Inhibitors of Type I Fatty Acid Synthase. Journal of Medicinal Chemistry, 2005, 48, 946-961. | 6.4 | 80 |
| 34 | Consecutive radical <i>S</i> -adenosylmethionine methylations form the ethyl side chain in thienamycin biosynthesis. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 10354-10358. | 7.1 | 77 |
| 35 | Studies of methoxymethyl-directed metalation. Tetrahedron Letters, 1981, 22, 3923-3924. | 1.4 | 75 |
| 36 | Design and Synthesis of Small Molecule Glycerol 3-Phosphate Acyltransferase Inhibitors. Journal of Medicinal Chemistry, 2009, 52, 3317-3327. | 6.4 | 75 |

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| 37 | Demonstration of the catalytic roles and evidence for the physical association of type I fatty acid synthases and a polyketide synthase in the biosynthesis of aflatoxin B1. Chemistry and Biology, 1996, 3, 463-469. | 6.0 | 74 |
| 38 | Carbapenem Biosynthesis:Â Confirmation of Stereochemical Assignments and the Role of CarC in the Ring Stereoinversion Process froml-Proline. Journal of the American Chemical Society, 2003, 125, 8486-8493. | 13.7 | 73 |
| 39 | Nocardicin A: biosynthetic experiments with amino acid precursors. Journal of the American Chemical Society, 1983, 105, 913-918. | 13.7 | 72 |
| 40 | Total syntheses of (-)-nocardicins A-G: a biogenetic approach. Journal of the American Chemical Society, 1990, 112, 760-770. | 13.7 | 72 |
| 41 | Elucidation of the order of oxidations and identification of an intermediate in the multistep clavaminate synthase reaction. Biochemistry, 1991, 30, 2281-2292. | 2.5 | 70 |
| 42 | Expansion of the Clavulanic Acid Gene Cluster: Identification and In Vivo Functional Analysis of Three New Genes Required for Biosynthesis of Clavulanic Acid by Streptomyces clavuligerus. Journal of Bacteriology, 2000, 182, 4087-4095. | 2.2 | 70 |
| 43 | The catalytic cycle of Â-lactam synthetase observed by x-ray crystallographic snapshots. Proceedings of the National Academy of Sciences of the United States of America, 2002, 99, 14752-14757. | 7.1 | 68 |
| 44 | Quantitative Proteomic Analysis of Drug-Induced Changes in Mycobacteria. Journal of Proteome Research, 2006, 5, 54-63. | 3.7 | 68 |
| 45 | Non-ribosomal Propeptide Precursor in Nocardicin A Biosynthesis Predicted from Adenylation Domain Specificity Dependent on the MbtH Family Protein Nocl. Journal of the American Chemical Society, 2013, 135, 1749-1759. | 13.7 | 68 |
| 46 | Experiments and speculations on the role of oxidative cyclization chemistry in natural product biosynthesis. Tetrahedron, 1991, 47, 2591-2602. | 1.9 | 64 |
| 47 | Isolation and Characterization of the Versicolorin B Synthase Gene from Aspergillus parasiticus. Journal of Biological Chemistry, 1996, 271, 13600-13608. | 3.4 | 63 |
| 48 | The Biosynthetic Gene Cluster for a Monocyclic \hat{l}^2 -Lactam Antibiotic, Nocardicin A. Chemistry and Biology, 2004, 11, 927-938. | 6.0 | 63 |
| 49 | Hexanoate as a starter unit in polyketide biosynthesis. Journal of the American Chemical Society, 1984, 106, 3868-3869. | 13.7 | 62 |
| 50 | Three Unusual Reactions Mediate Carbapenem and Carbapenam Biosynthesis. Journal of the American Chemical Society, 2000, 122, 9296-9297. | 13.7 | 62 |
| 51 | Synthesis of 11-HydroxylO-Methylsterigmatocystin and the Role of a Cytochrome P-450 in the Final Step of Aflatoxin Biosynthesis. Journal of the American Chemical Society, 2002, 124, 5294-5303. | 13.7 | 62 |
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| 54 | Gene cluster conservation provides insight into cercosporin biosynthesis and extends production to the genus <i>Colletotrichum</i> . Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, E5459-E5466. | 7.1 | 61 |

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| 55 | Structure of beta-lactam synthetase reveals how to synthesize antibiotics instead of asparagine. Nature Structural Biology, 2001, 8, 684-689. | 9.7 | 59 |
| 56 | Systematic Domain Swaps of Iterative, Nonreducing Polyketide Synthases Provide a Mechanistic Understanding and Rationale For Catalytic Reprogramming. Journal of the American Chemical Society, 2014, 136, 7348-7362. | 13.7 | 59 |
| 57 | Identification and Characterization of the Sulfazecin Monobactam Biosynthetic Gene Cluster. Cell Chemical Biology, 2017, 24, 24-34. | 5.2 | 59 |
| 58 | Mechanistic Insights into the Bifunctional Non-Heme Iron Oxygenase Carbapenem Synthase by Active Site Saturation Mutagenesis. Journal of the American Chemical Society, 2013, 135, 7496-7502. | 13.7 | 56 |
| 59 | New reactions in clavulanic acid biosynthesis. Current Opinion in Chemical Biology, 2002, 6, 583-589. | 6.1 | 55 |
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| 62 | Biochemical Determination of Enzyme-Bound Metabolites: Preferential Accumulation of a Programmed Octaketide on the Enediyne Polyketide Synthase CalE8. Journal of the American Chemical Society, 2013, 135, 14339-14348. | 13.7 | 53 |
| 63 | A Flexible Route to (5R)-Thiolactomycin, a Naturally Occurring Inhibitor of Fatty Acid Synthesis. Organic Letters, 2002, 4, 3859-3862. | 4.6 | 52 |
| 64 | Polyketide Proofreading by an Acyltransferase-like Enzyme. Chemistry and Biology, 2012, 19, 329-339. | 6.0 | 52 |
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| 66 | Role of the Cytochrome P450 NocL in Nocardicin A Biosynthesis. Journal of the American Chemical Society, 2002, 124, 8186-8187. | 13.7 | 49 |
| 67 | Production of Octaketide Polyenes by the Calicheamicin Polyketide Synthase CalE8: Implications for the Biosynthesis of Enediyne Core Structures. Journal of the American Chemical Society, 2009, 131, 12564-12566. | 13.7 | 49 |
| 68 | Requirement of Monooxygenase-Mediated Steps for Sterigmatocystin Biosynthesis by <i>Aspergillus nidulans</i> . Applied and Environmental Microbiology, 2000, 66, 359-362. | 3.1 | 48 |
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| 70 | Starter unit specificity directs genome mining of polyketide synthase pathways in fungi. Bioorganic Chemistry, 2008, 36 , 16 - 22 . | 4.1 | 48 |
| 71 | Unusual blue-shifted acid-responsive photoluminescence behavior in 6-amino-8-cyanobenzo[1,2-b]indolizines. RSC Advances, 2016, 6, 61249-61253. | 3.6 | 48 |
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| 74 | Inhibition and Alternate Substrate Studies on the Mechanism of Carbapenam Synthetase from Erwinia carotovoraâ€. Biochemistry, 2003, 42, 7836-7847. | 2.5 | 45 |
| 75 | Interrogation of Global Active Site Occupancy of a Fungal Iterative Polyketide Synthase Reveals Strategies for Maintaining Biosynthetic Fidelity. Journal of the American Chemical Society, 2012, 134, 6865-6877. | 13.7 | 45 |
| 76 | Analysis of the cercosporin polyketide synthase CTB1 reveals a new fungal thioesterase function. Chemical Communications, 2012, 48, 11772. | 4.1 | 45 |
| 77 | Loss of a Functionally and Structurally Distinct Id-Transpeptidase, LdtMt5, Compromises Cell Wall Integrity in Mycobacterium tuberculosis. Journal of Biological Chemistry, 2015, 290, 25670-25685. | 3.4 | 45 |
| 78 | The potential role of fatty acid initiation in the biosynthesis of the fungal aromatic polyketide aflatoxin B $<$ sub $>$ 1 $<$ /sub $>$. Canadian Journal of Chemistry, 1994, 72, 200-207. | 1.1 | 44 |
| 79 | New Insights into the Conversion of Versicolorin A in the Biosynthesis of Aflatoxin B $<$ sub $>$ 1 $<$ /sub $>$. Journal of the American Chemical Society, 2015, 137, 10867-10869. | 13.7 | 44 |
| 80 | Probable Role of Clavaminic Acid as the Terminal Intermediate in the Common Pathway to Clavulanic Acid and the Antipodal Clavam Metabolites. Journal of the American Chemical Society, 1997, 119, 2348-2355. | 13.7 | 43 |
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| 82 | Active Site Comparisons and Catalytic Mechanisms of the Hot Dog Superfamily. Chemical Reviews, 2013, 113, 2182-2204. | 47.7 | 43 |
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| 85 | Structural insight into the inactivation of Mycobacterium tuberculosis non-classical transpeptidase LdtMt2 by biapenem and tebipenem. BMC Biochemistry, 2017, 18, 8. | 4.4 | 42 |
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| 87 | Biosynthesis of clavulanic acid: origin of the C3 unit. Journal of the American Chemical Society, 1985, 107, 1066-1068. | 13.7 | 40 |
| 88 | Purification and Characterization of Clavaminate Synthase from Streptomyces antibioticus. Journal of Biological Chemistry, 1995, 270, 5399-5404. | 3.4 | 40 |
| 89 | Synthesis of (3S,5R)-Carbapenam-3-carboxylic Acid and Its Role in Carbapenem Biosynthesis and the Stereoinversion Problem. Journal of the American Chemical Society, 2003, 125, 15746-15747. | 13.7 | 40 |
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| 93 | Total Synthesis of O-Methylsterigmatocystin Using N-Alkylnitrilium Salts and Carbonylâ Alkene Interconversion in a New Xanthone Synthesis. Journal of Organic Chemistry, 1999, 64, 4050-4059. | 3.2 | 39 |
| 94 | Non-Heme Iron Oxygenases Generate Natural Structural Diversity in Carbapenem Antibiotics. Journal of the American Chemical Society, 2010, 132, 12-13. | 13.7 | 39 |
| 95 | Purification, Characterization, and Cloning of an S-Adenosylmethionine-dependent 3-Amino-3-carboxypropyltransferase in Nocardicin Biosynthesis. Journal of Biological Chemistry, 1998, 273, 30695-30703. | 3.4 | 38 |
| 96 | Combinatorial Domain Swaps Provide Insights into the Rules of Fungal Polyketide Synthase Programming and the Rational Synthesis of Nonâ€Native Aromatic Products. Angewandte Chemie - International Edition, 2013, 52, 1718-1721. | 13.8 | 38 |
| 97 | Silyl Triflate-Mediated Ring-Closure and Rearrangement in the Synthesis of Potential Bisfuran-Containing Intermediates of Aflatoxin Biosynthesis. Journal of the American Chemical Society, 1999, 121, 7729-7746. | 13.7 | 37 |
| 98 | Observation of an Acryloylâ^ Thiamin Diphosphate Adduct in the First Step of Clavulanic Acid Biosynthesis. Journal of the American Chemical Society, 2007, 129, 15750-15751. | 13.7 | 37 |
| 99 | A "Dielsâ€Alderase―at Last. ChemBioChem, 2011, 12, 2267-2269. | 2.6 | 37 |
| 100 | Stereochemical fate of chiral methyl of valine in the ring expansion of penicillin N to deacetoxycephalosporin C. Journal of the American Chemical Society, 1985, 107, 4760-4767. | 13.7 | 36 |
| 101 | Crystal Structure of Carbapenam Synthetase (CarA). Journal of Biological Chemistry, 2003, 278, 40996-41002. | 3.4 | 36 |
| 102 | Pharmacological glycerol-3-phosphate acyltransferase inhibition decreases food intake and adiposity and increases insulin sensitivity in diet-induced obesity. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2011, 301, R116-R130. | 1.8 | 36 |
| 103 | Quenching of pHâ€Responsive Luminescence of a Benzoindolizine Sensor by an Ultrafast Hydrogen Shift. Chemistry - A European Journal, 2016, 22, 15212-15215. | 3.3 | 36 |
| 104 | Structure of a B12-dependent radical SAM enzyme in carbapenem biosynthesis. Nature, 2022, 602, 343-348. | 27.8 | 36 |
| 105 | Oxidative cyclization chemistry catalyzed by clavaminate synthase. Journal of the American Chemical Society, 1989, 111, 7625-7627. | 13.7 | 35 |
| 106 | A single monomeric iron center in clavaminate synthase catalyzes three nonsuccessive oxidative transformations. Bioorganic and Medicinal Chemistry, 1996, 4, 1059-1064. | 3.0 | 35 |
| 107 | A Concise Synthesis of (+)-Cerulenin from a Chiral Oxiranyllithium. Journal of Organic Chemistry, 1997, 62, 636-640. | 3.2 | 35 |
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| 109 | Convergent biosynthetic pathways to \hat{l}^2 -lactam antibiotics. Current Opinion in Chemical Biology, 2016, 35, 97-108. | 6.1 | 35 |
| 110 | Asymmetric, biogenetically modeled synthesis of (-)-3-aminonocardicinic acid. Journal of the American Chemical Society, 1981, 103, 4582-4583. | 13.7 | 34 |
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| 113 | Partitioning of tetrahydro- and dihydrobisfuran formation in aflatoxin biosynthesis defined by cell-free and direct incorporation experiments. Journal of the American Chemical Society, 1989, 111, 8308-8309. | 13.7 | 33 |
| 114 | Common origin of clavulanic acid and clavam metabolites in Streptomyces. Journal of the American Chemical Society, 1992, 114, 2762-2763. | 13.7 | 33 |
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| 117 | A new synthesis of chiral acetic acid. Journal of the Chemical Society Chemical Communications, 1975, , 921. | 2.0 | 32 |
| 118 | A Practical Route to Substituted 7-Aminoindoles from Pyrrole-3-carboxaldehydes. Organic Letters, 2014, 16, 6334-6337. | 4.6 | 32 |
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| 120 | Starter Unit Flexibility for Engineered Product Synthesis by the Nonreducing Polyketide Synthase PksA. ACS Chemical Biology, 2015, 10, 1443-1449. | 3.4 | 31 |
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| 124 | Purification and Characterization of Versicolorin B Synthase from Aspergillus parasiticus. Catalysis of the Stereodifferentiating Cyclization in Aflatoxin Biosynthesis Essential to DNA Interaction. Biochemistry, 1996, 35, 11470-11486. | 2.5 | 29 |
| 125 | \hat{l}^2 -Secondary Kinetic Isotope Effects in the Clavaminate Synthase-Catalyzed Oxidative Cyclization of Proclavaminic Acid and in Related Azetidinone Model Reactions. Journal of the American Chemical Society, 1999, 121, 11356-11368. | 13.7 | 29 |
| 126 | Effect ofn-octanesulphonylacetamide (OSA) on ATP and protein expression in Mycobacterium bovis BCG. Journal of Antimicrobial Chemotherapy, 2004, 54, 722-729. | 3.0 | 29 |

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| 139 | A Catalytic Asymmetric Route to Carbapenems. Organic Letters, 2009, 11, 3606-3609. | 4.6 | 25 |
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