## Dominic J Campopiano

List of Publications by Year in descending order

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117625 95266 5,084 103 34 68 citations g-index h-index papers 113 113 113 6412 docs citations times ranked citing authors all docs

#	Article	IF	CITATIONS
1	Creation of an Engineered Amide Synthetase Biocatalyst by the Rational Separation of a Twoâ€6tep Nitrile Synthetase. ChemBioChem, 2022, 23, .	2.6	3
2	$\langle i \rangle N \langle j i \rangle$ -Phenylputrescine (NPP): a natural product inspired amine donor for biocatalysis. Green Chemistry, 2022, 24, 2010-2016.	9.0	11
3	Convergent evolution of bacterial ceramide synthesis. Nature Chemical Biology, 2022, 18, 305-312.	8.0	36
4	Buy one, get one free. , 2022, 1, 420-421.		2
5	Characterization of inositol lipid metabolism in gut-associated Bacteroidetes. Nature Microbiology, 2022, 7, 986-1000.	13.3	19
6	Direct monitoring of biocatalytic deacetylation of amino acid substrates by 1H NMR reveals fine details of substrate specificity. Organic and Biomolecular Chemistry, 2021, 19, 4904-4909.	2.8	1
7	The N-Acetyl Amino Acid Racemases (NAAARs); Native and evolved biocatalysts applied to the synthesis of canonical and non-canonical amino acids. Current Opinion in Biotechnology, 2021, 69, 212-220.	6.6	3
8	Solution Structure and Conformational Dynamics of a Doublet Acyl Carrier Protein from Prodigiosin Biosynthesis. Biochemistry, 2021, 60, 219-230.	2.5	4
9	<scp>d</scp> -Phenylglycine aminotransferase ( <scp>d</scp> -PhgAT) â€" substrate scope and structural insights of a stereo-inverting biocatalyst used in the preparation of aromatic amino acids. Catalysis Science and Technology, 2020, 10, 6533-6543.	4.1	2
10	Editorial overview: Biocatalysis and biotransformations. Current Opinion in Chemical Biology, 2020, 55, A1-A3.	6.1	0
11	Harnessing and engineering amide bond forming ligases for the synthesis of amides. Current Opinion in Chemical Biology, 2020, 55, 77-85.	6.1	36
12	Synthesis of $\langle i \rangle N \langle  i \rangle$ -acyl amide natural products using a versatile adenylating biocatalyst. MedChemComm, 2019, 10, 1192-1196.	3.4	22
13	Use of isotopically labeled substrates reveals kinetic differences between human and bacterial serine palmitoyltransferase. Journal of Lipid Research, 2019, 60, 953-962.	4.2	7
14	The carbon chain-selective adenylation enzyme TamA: the missing link between fatty acid and pyrrole natural product biosynthesis. Organic and Biomolecular Chemistry, 2018, 16, 2735-2740.	2.8	17
15	Non-invasive <sup>19</sup> F NMR analysis of a protein-templated <i>N</i> -acylhydrazone dynamic combinatorial library. Organic and Biomolecular Chemistry, 2018, 16, 8144-8149.	2.8	7
16	Hydrogen Peroxide-Based Fluorometric Assay for Real-Time Monitoring of SAM-Dependent Methyltransferases. Frontiers in Bioengineering and Biotechnology, 2018, 6, 146.	4.1	8
17	Sphingolipid biosynthesis in man and microbes. Natural Product Reports, 2018, 35, 921-954.	10.3	116
18	Using the pimeloyl-CoA synthetase adenylation fold to synthesize fatty acid thioesters. Nature Chemical Biology, 2017, 13, 660-667.	8.0	21

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19	Structural evidence for the covalent modification of FabH by 4,5-dichloro-1,2-dithiol-3-one (HR45). Organic and Biomolecular Chemistry, 2017, 15, 6310-6313.	2.8	8
20	Characterization of homologous sphingosine-1-phosphate lyase isoforms in the bacterial pathogen Burkholderia pseudomallei. Journal of Lipid Research, 2017, 58, 137-150.	4.2	11
21	IL-1β–Induced Protection of Keratinocytes against Staphylococcus aureus-Secreted Proteases Is Mediated by Human β-Defensin 2. Journal of Investigative Dermatology, 2017, 137, 95-105.	0.7	39
22	Insight into Coenzyme A cofactor binding and the mechanism of acyl-transfer in an acylating aldehyde dehydrogenase from Clostridium phytofermentans. Scientific Reports, 2016, 6, 22108.	3.3	18
23	Characterization of secreted sphingosineâ€1â€phosphate lyases required for virulence and intracellular survival of <i>Burkholderia pseudomallei</i> ). Molecular Microbiology, 2016, 102, 1004-1019.	2.5	19
24	Determination of Protein Thiol Reduction Potential by Isotope Labeling and Intact Mass Measurement. Analytical Chemistry, 2016, 88, 2727-2733.	6.5	5
25	Molecular basis of Streptococcus mutans sortase A inhibition by the flavonoid natural product trans-chalcone. Chemical Communications, 2015, 51, 10483-10485.	4.1	39
26	Insights into the Conformations of Three Structurally Diverse Proteins: Cytochrome <i>c</i> , p53, and MDM2, Provided by Variable-Temperature Ion Mobility Mass Spectrometry. Analytical Chemistry, 2015, 87, 3231-3238.	6.5	33
27	Continuous Colorimetric Assay That Enables High-Throughput Screening of N-Acetylamino Acid Racemases. Analytical Chemistry, 2015, 87, 3923-3928.	6.5	11
28	Desalting large protein complexes during native electrospray mass spectrometry by addition of amino acids to the working solution. Analyst, The, 2015, 140, 2679-2686.	3.5	35
29	Garlic Revisited: Antimicrobial Activity of Allicin-Containing Garlic Extracts against Burkholderia cepacia Complex. PLoS ONE, 2014, 9, e112726.	2.5	96
30	ACP—AasS You Like It. Chemistry and Biology, 2014, 21, 1257-1259.	6.0	3
31	Reconstitution of the pyridoxal 5′-phosphate (PLP) dependent enzyme serine palmitoyltransferase (SPT) with pyridoxal reveals a crucial role for the phosphate during catalysis. Chemical Communications, 2013, 49, 7058.	4.1	13
32	Triazole biotin: a tight-binding biotinidase-resistant conjugate. Organic and Biomolecular Chemistry, 2013, 11, 7700.	2.8	18
33	Ribosomally synthesized and post-translationally modified peptide natural products: overview and recommendations for a universal nomenclature. Natural Product Reports, 2013, 30, 108-160.	10.3	1,692
34	The Chemical Basis of Serine Palmitoyltransferase Inhibition by Myriocin. Journal of the American Chemical Society, 2013, 135, 14276-14285.	13.7	98
35	The Pyridoxal 5′-Phosphate (PLP)-Dependent Enzyme Serine Palmitoyltransferase (SPT): Effects of the Small Subunits and Insights from Bacterial Mimics of Human hLCB2a HSAN1 Mutations. BioMed Research International, 2013, 2013, 1-13.	1.9	8
36	Partial Complementation of Sinorhizobium meliloti bacA Mutant Phenotypes by the Mycobacterium tuberculosis BacA Protein. Journal of Bacteriology, 2013, 195, 389-398.	2.2	24

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37	l-Penicillamine is a mechanism-based inhibitor of serine palmitoyltransferase by forming a pyridoxal-5′-phosphate-thiazolidine adduct. MedChemComm, 2012, 3, 1003.	3.4	14
38	An Improved Racemase/Acylase Biotransformation for the Preparation of Enantiomerically Pure Amino Acids. Journal of the American Chemical Society, 2012, 134, 19310-19313.	13.7	64
39	Structural, mechanistic and regulatory studies of serine palmitoyltransferase. Biochemical Society Transactions, 2012, 40, 547-554.	3.4	80
40	Bivalent Enzyme Inhibitors Discovered Using Dynamic Covalent Chemistry. Chemistry - A European Journal, 2012, 18, 10562-10570.	3.3	44
41	Ferric ion (hydr)oxo clusters in the "Venus flytrap―cleft of FbpA: Mössbauer, calorimetric and mass spectrometric studies. Journal of Biological Inorganic Chemistry, 2012, 17, 573-588.	2.6	3
42	Role of a conserved arginine residue during catalysis in serine palmitoyltransferase. FEBS Letters, 2011, 585, 1729-1734.	2.8	15
43	The serine palmitoyltransferase from <i>Sphingomonas wittichii</i> RW1: An interesting link to an unusual acyl carrier protein. Biopolymers, 2010, 93, 811-822.	2.4	37
44	Nucleophilic catalysis of acylhydrazone equilibration for protein-directed dynamic covalent chemistry. Nature Chemistry, 2010, 2, 490-497.	13.6	170
45	Niobium Uptake and Release by Bacterial Ferric Ion Binding Protein. Bioinorganic Chemistry and Applications, 2010, 2010, 1-11.	4.1	6
46	Peptide Fragments of a $\hat{l}^2$ -Defensin Derivative with Potent Bactericidal Activity. Antimicrobial Agents and Chemotherapy, 2010, 54, 1922-1929.	3.2	13
47	Antimicrobial Activity of CHIR-090, an Inhibitor of Lipopolysaccharide Biosynthesis, against the <i>Burkholderia cepacia</i> Complex. Antimicrobial Agents and Chemotherapy, 2010, 54, 3531-3533.	3.2	15
48	Subdivision of the Bacterioferritin Comigratory Protein Family of Bacterial Peroxiredoxins Based on Catalytic Activity. Biochemistry, 2010, 49, 1319-1330.	2.5	34
49	Interaction of Human β-Defensin 2 (HBD2) with Glycosaminoglycans. Biochemistry, 2010, 49, 10486-10495.	2.5	46
50	Conformational Preferences of Linear $\hat{l}^2$ -Defensins Are Revealed by Ion Mobility-Mass Spectrometry. Journal of Physical Chemistry B, 2010, 114, 2312-2318.	2.6	15
51	Isoleucine/leucine2 is essential for chemoattractant activity of $\hat{l}^2$ -defensin Defb14 through chemokine receptor 6. Molecular Immunology, 2010, 47, 1378-1382.	2.2	21
52	Synthesis and application of a new cleavable linker for "click―based affinity chromatography. Organic and Biomolecular Chemistry, 2010, 8, 56-59.	2.8	42
53	Binding a heparin derived disaccharide to defensin inspired peptides: insights to antimicrobial inhibition from gas-phase measurements. Physical Chemistry Chemical Physics, 2010, 12, 3589.	2.8	11
54	Inhibition of the PLP-dependent enzyme serine palmitoyltransferase by cycloserine: evidence for a novel decarboxylative mechanism of inactivation. Molecular BioSystems, 2010, 6, 1682.	2.9	39

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55	The External Aldimine Form of Serine Palmitoyltransferase. Journal of Biological Chemistry, 2009, 284, 17328-17339.	3.4	57
56	Dying and Necrotic Neutrophils Are Anti-Inflammatory Secondary to the Release of $\hat{l}_{\pm}$ -Defensins. Journal of Immunology, 2009, 183, 2122-2132.	0.8	141
57	Contributions of two UDP-glucose dehydrogenases to viability and polymyxin B resistance of Burkholderia cenocepacia. Microbiology (United Kingdom), 2009, 155, 2029-2039.	1.8	31
58	Insights into How Nucleotide-Binding Domains Power ABC Transport. Structure, 2009, 17, 1213-1222.	3.3	40
59	Defensinâ€related peptide 1 (Defr1) is allelic to Defb8 and chemoattracts immature DC and CD4 <sup>+</sup> T cells independently of CCR6. European Journal of Immunology, 2009, 39, 1353-1360.	2.9	22
60	Effective Binding and Sensing of Lipopolysaccharide: Combining Complementary Pattern Recognition Receptors. Angewandte Chemie - International Edition, 2009, 48, 356-360.	13.8	37
61	Interrogating the Molecular Details of the Peroxiredoxin Activity of the Escherichia coliBacterioferritin Comigratory Protein Using High-Resolution Mass Spectrometry. Biochemistry, 2009, 48, 3904-3914.	2.5	18
62	Preparation of isotopically labelled recombinant $\hat{l}^2$ -defensin for NMR studies. Protein Expression and Purification, 2009, 65, 179-184.	1.3	6
63	Structural and Functional Studies of the Biotin Protein Ligase from Aquifex aeolicus Reveal a Critical Role for a Conserved Residue in Target Specificity. Journal of Molecular Biology, 2009, 387, 129-146.	4.2	39
64	Efficient Production of Human & Samp; #946; -Defensin 2 (HBD2) in Escherichia coli. Protein and Peptide Letters, 2009, 16, 668-676.	0.9	17
65	Nitrilotriacetic Acid-Derivatized Quantum Dots for Simple Purification and Site-Selective Fluorescent Labeling of Active Proteins in a Single Step. Bioconjugate Chemistry, 2008, 19, 1964-1967.	3.6	32
66	Plant host and sugar alcohol induced exopolysaccharide biosynthesis in the Burkholderia cepacia complex. Microbiology (United Kingdom), 2008, 154, 2513-2521.	1.8	37
67	Analysis and Separation of Residues Important for the Chemoattractant and Antimicrobial Activities of $\hat{I}^2$ -Defensin 3. Journal of Biological Chemistry, 2008, 283, 6631-6639.	3.4	81
68	Covalent Dimer Species of $\hat{l}^2$ -Defensin Defr1 Display Potent Antimicrobial Activity against Multidrug-Resistant Bacterial Pathogens. Antimicrobial Agents and Chemotherapy, 2007, 51, 1719-1724.	3.2	29
69	A Putative Gene Cluster for Aminoarabinose Biosynthesis Is Essential for Burkholderia cenocepacia Viability. Journal of Bacteriology, 2007, 189, 3639-3644.	2.2	101
70	The Structure of Serine Palmitoyltransferase; Gateway to Sphingolipid Biosynthesis. Journal of Molecular Biology, 2007, 370, 870-886.	4.2	124
71	Maturation of McjA precursor peptide into active microcin MccJ25. Organic and Biomolecular Chemistry, 2007, 5, 2564.	2.8	49
72	Metals in membranes. Chemical Society Reviews, 2007, 36, 968.	38.1	25

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73	Histidine ligands in bacterial metallothionein enhance cluster stability. Journal of Biological Inorganic Chemistry, 2007, 12, 393-405.	2.6	41
74	Essential metals. Natural Product Reports, 2007, 24, B46-7.	10.3	0
75	Mechanism of $\hat{l}_{\pm}$ -oxoamine synthases: identification of the intermediate Claisen product in the 8-amino-7-oxononanoate synthase reaction. Chemical Communications, 2006, , 60-62.	4.1	32
76	Suicide inhibition of $\hat{l}_{\pm}$ -oxamine synthases: structures of the covalent adducts of 8-amino-7-oxononanoate synthase with trifluoroalanine. Organic and Biomolecular Chemistry, 2006, 4, 1209.	2.8	35
77	Discovery of Glutathione S-Transferase Inhibitors Using Dynamic Combinatorial Chemistry. Journal of the American Chemical Society, 2006, 128, 8459-8467.	13.7	78
78	Structural and functional studies of defensin-inspired peptides. Biochemical Society Transactions, 2006, 34, 251.	<b>3.</b> 4	13
79	Characterisation of DEFB107 by mass spectrometry: Lessons from an anti-antimicrobial defensin. International Journal of Mass Spectrometry, 2006, 252, 180-188.	1.5	14
80	Short Oxo–Titanium(IV) Bond in Bacterial Transferrin: A Protein Target for Metalloantibiotics. Angewandte Chemie - International Edition, 2006, 45, 2758-2761.	13.8	23
81	Is it biologically relevant to measure the structures of small peptides in the gas-phase?. International Journal of Mass Spectrometry, 2005, 240, 273-284.	1.5	67
82	Temperate bacteriophages DK4 and BcepMu fromBurkholderia cenocepaciaJ2315 are identical. FEMS Immunology and Medical Microbiology, 2005, 45, 349-350.	2.7	5
83	Cloning, expression, purification, crystallization and preliminary X-ray characterization of the full-length single-stranded DNA-binding protein from the hyperthermophilic bacteriumAquifex aeolicus. Acta Crystallographica Section D: Biological Crystallography, 2004, 60, 2009-2012.	2.5	1
84	Assembly of an Oxo-Zirconium(IV) Cluster in a Protein Cleft. Angewandte Chemie - International Edition, 2004, 43, 5914-5918.	13.8	32
85	Structure-Activity Relationships in Defensin Dimers. Journal of Biological Chemistry, 2004, 279, 48671-48679.	3.4	85
86	Biotinylation in the hyperthermophile Aquifex aeolicus. Isolation of a cross-linked BPL:BCCP complex. FEBS Journal, 2003, 270, 1277-1287.	0.2	14
87	A novel protein–mineral interface. Nature Structural and Molecular Biology, 2003, 10, 297-302.	8.2	48
88	The mechanism of 7,8-diaminopelargonate synthase; the role of S-adenosylmethionine as the amino donor. Organic and Biomolecular Chemistry, 2003, 1, 3498.	2.8	17
89	Synergistic Anion and Metal Binding to the Ferric Ion-binding Protein from Neisseria gonorrhoeae. Journal of Biological Chemistry, 2003, 278, 2490-2502.	3.4	61
90	Oxo-iron clusters in a bacterial iron-trafficking protein: new roles for a conserved motif. Biochemical Journal, 2003, 376, 35-41.	3.7	42

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91	Purification and characterisation of the BIOH protein from the biotin biosynthetic pathway. FEBS Letters, 2002, 513, 299-304.	2.8	28
92	Probing the NADPH-binding site of Escherichia coli flavodoxin oxidoreductase. Biochemical Journal, 2000, 352, 257.	3.7	6
93	Identification of the [Fe-S] Cluster-binding Residues of Escherichia coli Biotin Synthase. Journal of Biological Chemistry, 2000, 275, 13888-13894.	3.4	28
94	Mechanism of 8-Amino-7-oxononanoate Synthase:  Spectroscopic, Kinetic, and Crystallographic Studies,. Biochemistry, 2000, 39, 516-528.	2.5	129
95	Mechanistic Studies Of 8-Amino-7-Oxononanoate Synthase, 2000, , 135-142.		0
96	Cubic crystals of chloramphenicol phosphotransferase from Streptomyces venezuelaein complex with chloramphenicol. Acta Crystallographica Section D: Biological Crystallography, 1999, 55, 1086-1088.	2.5	5
97	Ferredoxin NADP+ reductase; identification of key residues involved in NADPH binding and electron transfer. Biochemical Society Transactions, 1999, 27, A56-A56.	3.4	0
98	Characterisation of ferredoxin (flavodoxin) NADP+ reductase and flavodoxin; key components of electron transfer in <i>Escherichia coli</i> . Biochemical Society Transactions, 1999, 27, A56-A56.	3 <b>.</b> 4	0
99	Characterisation of flavodoxin NADP+ oxidoreductase and flavodoxin; key components of electron transfer in Escherichia coli. FEBS Journal, 1998, 257, 577-585.	0.2	90
100	Rational design of an inhibitor of dethiobiotin synthetase; interaction of 6-hydroxypyrimindin-4(3H)-one with the adenine base binding site. Tetrahedron, 1998, 54, 15891-15898.	1.9	8
101	The crystal structure of 8-amino-7-oxononanoate synthase: a bacterial PLP-dependent, acyl-CoA-condensing enzyme 1 1Edited by R. Huber. Journal of Molecular Biology, 1998, 284, 401-419.	4.2	127
102	Characterisation of 8-amino-7-oxononanoate synthase: A bacterial PLP-dependent, acyl CoA condensing enzyme. Biochemical Society Transactions, 1998, 26, S268-S268.	3.4	8
103	An investigation of flavoprotein redox partners. Biochemical Society Transactions, 1998, 26, S271-S271.	3.4	0