

# Christopher D Maycock

## List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Is the Glycolytic Flux in <i>Lactococcus lactis</i> Primarily Controlled by the Redox Charge?. <i>Journal of Biological Chemistry</i> , 2002, 277, 28088-28098.	3.4	124
2	Thermostabilization of Proteins by Diglycerol Phosphate, a New Compatible Solute from the Hyperthermophile <i>Archaeoglobus fulgidus</i> . <i>Applied and Environmental Microbiology</i> , 2000, 66, 1974-1979.	3.1	106
3	Copper-Catalyzed Regioselective Intramolecular Oxidative $\alpha$ -Functionalization of Tertiary Amines: An Efficient Synthesis of Dihydro-1,3-Oxazines. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 9791-9795.	13.8	105
4	Selectivities in the Reactions of Alkyl-, Aryl- and Heterosubstituted Organotitanium Compounds Preliminary Communication. <i>Helvetica Chimica Acta</i> , 1981, 64, 357-361.	1.6	90
5	Quantum Dot and Superparamagnetic Nanoparticle Interaction with Pathogenic Fungi: Internalization and Toxicity Profile. <i>ACS Applied Materials &amp; Interfaces</i> , 2014, 6, 9100-9110.	8.0	71
6	The impact of CdSe/ZnS Quantum Dots in cells of <i>Medicago sativa</i> in suspension culture. <i>Journal of Nanobiotechnology</i> , 2010, 8, 24.	9.1	66
7	Metal-free direct amination/aromatization of 2-cyclohexenones to iodo-N-arylanilines and N-arylanilines promoted by iodine. <i>Chemical Communications</i> , 2012, 48, 10901.	4.1	60
8	Aldol Reactions of Dioxanes Derived from Tartaric Acid. A Total Synthesis of (+)-Nephrosteranic Acid. <i>Organic Letters</i> , 2003, 5, 4097-4099.	4.6	56
9	Processing the Interspecies Quorum-sensing Signal Autoinducer-2 (AI-2). <i>Journal of Biological Chemistry</i> , 2011, 286, 18331-18343.	3.4	55
10	Approaches to the synthesis of (+)- and ( $\beta$ )-epibatidine. <i>Journal of the Chemical Society, Perkin Transactions 1</i> , 2001, 166-173.	1.3	47
11	Design of new enzyme stabilizers inspired by glycosides of hyperthermophilic microorganisms. <i>Carbohydrate Research</i> , 2008, 343, 3025-3033.	2.3	47
12	Protein stabilization by compatible solutes. <i>FEBS Journal</i> , 2003, 270, 4606-4614.	0.2	44
13	An efficient synthesis of the precursor of AI-2, the signalling molecule for inter-species quorum sensing. <i>Bioorganic and Medicinal Chemistry</i> , 2011, 19, 1236-1241.	3.0	44
14	The First Synthesis of ( $\beta$ )-Asperpentyn and Efficient Syntheses of (+)-Harveynone, (+)-Epiepoforin and ( $\beta$ )-Theobroxide. <i>Chemistry - A European Journal</i> , 2000, 6, 3991-3996.	3.3	42
15	The preferential direction of enolization of some asymmetric 1,3-dicarbonyl compounds in solution: a study by multinuclear NMR spectroscopy. <i>Journal of Molecular Structure</i> , 1990, 238, 335-346.	3.6	41
16	Bifunctional CTP:Inositol-1-Phosphate Cytidylyltransferase/CDP-Inositol:Inositol-1-Phosphate Transferase, the Key Enzyme for Di- myo -Inositol-Phosphate Synthesis in Several (Hyper)thermophiles. <i>Journal of Bacteriology</i> , 2007, 189, 5405-5412.	2.2	41
17	Effect of pyruvate kinase overproduction on glucose metabolism of <i>Lactococcus lactis</i> . <i>Microbiology (United Kingdom)</i> , 2004, 150, 1103-1111.	1.8	40
18	Enantioselective Total Synthesis of (+)-Eutypoxide B. <i>Journal of Organic Chemistry</i> , 1997, 62, 3984-3988.	3.2	39

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19	Cutinase Activity and Enantioselectivity in Supercritical Fluids. <i>Industrial &amp; Engineering Chemistry Research</i> , 1998, 37, 3189-3194.	3.7	38
20	Intramolecular Fluorescence Quenching of Tyrosine by the Peptide $\alpha$ -Carbonyl Group Revisited. <i>Journal of Physical Chemistry A</i> , 2004, 108, 2155-2166.	2.5	36
21	The effect of DMSO on the borohydride reduction of a cyclohexanone: A formal enantioselective synthesis of (+)-epibatidine. <i>Tetrahedron Letters</i> , 1999, 40, 557-560.	1.4	34
22	A synthesis of aziridines from $\alpha$ -iodoenones. <i>Tetrahedron Letters</i> , 2002, 43, 4329-4331.	1.4	32
23	Synthesis of 2,3-Dihydro-1,4-dithiins and 2-Alkylidene-1,4-dithianes by 1,2-Sulfur Migration in 2-(1-Hydroxyalkyl)-1,3-dithiolanes. <i>Synthesis</i> , 1991, 1991, 575-580.	2.3	31
24	An efficient transformation of quinic acid to shikimic acid derivatives. <i>Tetrahedron</i> , 1999, 55, 8443-8456.	1.9	29
25	The enantioselective total synthesis of epofornin and analogues. <i>Tetrahedron</i> , 1999, 55, 3233-3244.	1.9	28
26	Synthesis of potassium (2R)-2-O- $\alpha$ -D-glucopyranosyl-(1 $\rightarrow$ 6)- $\alpha$ -D-glucopyranosyl-2,3-dihydroxypropanoate a natural compatible solute. <i>Carbohydrate Research</i> , 2009, 344, 2073-2078.	2.3	28
27	Aziridines as a Protecting and Directing Group. Stereoselective Synthesis of (+)-Bromoxone. <i>Organic Letters</i> , 2003, 5, 4321-4323.	4.6	27
28	CdSe/ZnS Quantum Dots trigger DNA repair and antioxidant enzyme systems in <i>Medicago sativa</i> cells in suspension culture. <i>BMC Biotechnology</i> , 2013, 13, 111.	3.3	27
29	The reactivity of silyl ethers to the Swern reagent. <i>Journal of the Chemical Society Perkin Transactions 1</i> , 1987, , 1221.	0.9	25
30	An application of quinic acid to the synthesis of linear homochiral molecules: A synthesis of (+)-negamycin.. <i>Tetrahedron Letters</i> , 1992, 33, 4633-4636.	1.4	25
31	The alkylation of a novel acetal derived from (2R,3R)-(+)-tartaric acid: An unexpected rearrangement. <i>Tetrahedron Letters</i> , 1999, 40, 1583-1586.	1.4	23
32	Stereochemical diversity of AI-2 analogs modulates quorum sensing in <i>Vibrio harveyi</i> and <i>Escherichia coli</i> . <i>Bioorganic and Medicinal Chemistry</i> , 2012, 20, 249-256.	3.0	23
33	Fast Galloylation of a Sugar Moiety: Preparation of Three Monogalloylsucroses as References for Antioxidant Activity. A Method for the Selective Deprotection of tert-Butyldiphenylsilyl Ethers. <i>Tetrahedron</i> , 2000, 56, 6511-6516.	1.9	22
34	The First Synthesis of ( $\alpha$ )-Asperpentyn and Efficient Syntheses of (+)-Harveynone, (+)-Epiepofornin and ( $\alpha$ )-Theobroxide. <i>Chemistry - A European Journal</i> , 2000, 6, 3991-3996.	3.3	20
35	Metabolism of 3- <sup>13</sup> C-Malate in Primary Cultures of Mouse Astrocytes. <i>Developmental Neuroscience</i> , 2000, 22, 456-462.	2.0	19
36	Biosynthetic Pathways of Inositol and Glycerol Phosphodiester Used by the Hyperthermophile <i>Archaeoglobus fulgidus</i> in Stress Adaptation. <i>Journal of Bacteriology</i> , 2006, 188, 8128-8135.	2.2	19

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37	Studies related to thiirans. Part 1. Synthesis of chiral thiirancarboxylates. <i>Journal of the Chemical Society Perkin Transactions 1</i> , 1979, , 1852.	0.9	18
38	Chiral dithiolane sulphoxides: An efficient stereoselective synthesis of (R) and (S)-3-benzoyloxy-2-butanone. <i>Tetrahedron Letters</i> , 1995, 36, 6537-6540.	1.4	18
39	Bromine in Methanol: An Efficient Reagent for the Deprotection of the tert-Butyldiphenylsilyl Group. <i>Synlett</i> , 2001, 2001, 1146-1148.	1.8	18
40	Studies related to maytansinoids. <i>Journal of the Chemical Society Chemical Communications</i> , 1980, , 1089-1091.	2.0	17
41	The effect of diethylamine on Stille alkylations with tetraalkylstannanes. <i>Chemical Communications</i> , 2001, , 1662-1663.	4.1	17
42	Stereoselective alkylation of tartrate derivatives. A concise route to (+)-O-methylpiscidic acid and natural analogues. <i>Organic and Biomolecular Chemistry</i> , 2006, 4, 2361.	2.8	17
43	New organocatalysts derived from tartaric and glyceric acids for direct aldol reactions. <i>Tetrahedron: Asymmetry</i> , 2012, 23, 1262-1271.	1.8	17
44	An application of quinic acid to the synthesis of cyclic homochiral molecules: A common route to some interesting carbocyclic nucleoside precursors.. <i>Tetrahedron Letters</i> , 1993, 34, 7985-7988.	1.4	16
45	Novel chiral bis(oxazolines): synthesis and application as ligands in the copper-catalyzed enantioselective conjugate addition of diethylzinc to enones. <i>Tetrahedron: Asymmetry</i> , 2005, 16, 2946-2953.	1.8	16
46	Synthesis of Î³-lactones by desymmetrization. A synthesis of (âˆ’)-muricatacin. <i>Tetrahedron</i> , 2009, 65, 396-399.	1.9	16
47	Synthesis and Laser Immobilization onto Solid Substrates of CdSe/ZnS Core-Shell Quantum Dots. <i>Journal of Physical Chemistry C</i> , 2011, 115, 15210-15216.	3.1	16
48	Studies related to maytansinoids. <i>Journal of the Chemical Society Perkin Transactions 1</i> , 1982, , 1541-1551.	0.9	15
49	Stereoselective azide introduction during 1,2-sulfur migration in Î±-hydroxyalkyldithioacetals. <i>Tetrahedron</i> , 1999, 55, 801-814.	1.9	15
50	Improved anomeric selectivity for the aroylation of sugars. <i>Carbohydrate Research</i> , 2004, 339, 1373-1376.	2.3	15
51	Organic solutes in the deepest phylogenetic branches of the Bacteria: identification of Î±(1âˆ“6)glucosyl-Î±(1âˆ“2)glucosylglycerate in <i>Persephonella marina</i> . <i>Extremophiles</i> , 2013, 17, 137-146.	2.3	15
52	Highly Stereoselective Aldol Reaction for the Synthesis of Î³-Lactones Starting from Tartaric Acid. <i>Journal of Organic Chemistry</i> , 2004, 69, 7847-7850.	3.2	14
53	A useful method for preparing optically active secondary alcohols: A short enantiospecific synthesis of (-) and (+)-sulcatol. <i>Tetrahedron Letters</i> , 1989, 30, 2707-2708.	1.4	13
54	The mechanism of the Mitsunobu azide modification and the effect of additives on the rate of hydroxyl group activation.. <i>Tetrahedron</i> , 1994, 50, 9671-9678.	1.9	13

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55	The plant <i>Selaginella moellendorffii</i> possesses enzymes for synthesis and hydrolysis of the compatible solutes mannosylglycerate and glucosylglycerate. <i>Planta</i> , 2013, 237, 891-901.	3.2	13
56	The reaction of methyl $\beta$ -D-ribofuranoside with acetone. <i>Carbohydrate Research</i> , 1974, 35, 247-250.	2.3	12
57	Stereoselective synthesis of optically active mono and diaminoalcohols. <i>Tetrahedron</i> , 2005, 61, 7960-7966.	1.9	12
58	Monofluoroalkylation and alkylation of alcohols using non-volatile reagents. <i>Tetrahedron</i> , 2017, 73, 1165-1169.	1.9	12
59	Formal enantioselective syntheses of oseltamivir and tamifospor. <i>Organic Chemistry Frontiers</i> , 2017, 4, 236-240.	4.5	12
60	A proton and $^{13}\text{C}$ NMR study of keto-enol tautomerism of some $\beta$ -ketoamides. <i>Journal of Molecular Structure</i> , 1986, 142, 435-438.	3.6	11
61	An expedient stereoselective synthesis of polysubstituted piperidin-2-ones. <i>Tetrahedron</i> , 2002, 58, 1519-1524.	1.9	11
62	Study of selected benzyl azides by UV photoelectron spectroscopy and mass spectrometry. <i>Journal of Molecular Structure</i> , 2010, 980, 163-171.	3.6	11
63	Metal-Free Synthesis of Secondary Arylamines: An Aliphatic to Aromatic Transformation. <i>European Journal of Organic Chemistry</i> , 2013, 2013, 742-747.	2.4	11
64	A flexible synthesis of some polysubstituted cyclopentanes from quinic acid. <i>Tetrahedron Letters</i> , 1994, 35, 3999-4002.	1.4	10
65	Studies related to penicillins. Part 23. Preparation of the N-phenylacetyl and N-triphenylmethyl derivatives of (3R,4R)-3-amino-4-t-butylthioazetidin-2-one. <i>Journal of the Chemical Society Perkin Transactions 1</i> , 1987, , 2009.	0.9	9
66	Formation and NMR study of some cyclic $\beta$ -ketodithioacetals. <i>Tetrahedron</i> , 1988, 44, 2283-2287.	1.9	9
67	Enhanced diastereo and enantioselectivity in the formation of acyldithiolane sulphoxides by the asymmetric oxidation of their enolsilyl ethers. <i>Tetrahedron Letters</i> , 1997, 38, 5047-5050.	1.4	9
68	Stereoselective Radical Reactions of Some Tartaric and Glyceric Acid Derivatives. <i>Organic Letters</i> , 2002, 4, 2035-2038.	4.6	9
69	Novel Cyclic 1,2-Diacetals Derived from (2R,3R)-(+)-Tartaric Acid: Synthesis and Application as N,O Ligands for the Enantioselective Alkylation of Benzaldehyde by Diethylzinc. <i>European Journal of Organic Chemistry</i> , 2004, 2004, 1820-1829.	2.4	9
70	Use of Aziridines for the Stereocontrolled Synthesis of ( $\alpha$ )-LL-C100371 $\pm$ , (+)-MT35214, and (+)-4-epi-MT35214. <i>Journal of Organic Chemistry</i> , 2014, 79, 1929-1937.	3.2	9
71	The Aza-Wharton Reaction: Syntheses of Cyclic Allylic Amines and Vicinal Hydroxyamines from the Respective Acylaziridines. <i>Journal of Organic Chemistry</i> , 2015, 80, 3067-3074.	3.2	9
72	Stereocontrolled synthesis of the 4-hydroxy-5-methyl-2(3H)-dihydrofuranone isomers. <i>Tetrahedron</i> , 1993, 49, 4283-4292.	1.9	8

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73	Chemoselectivity in the manipulation of polyhydroxylated compounds derived from the diastereoselective dihydroxylation of optically active allylic enoate alcohols. <i>Tetrahedron</i> , 1996, 52, 7861-7874.	1.9	8
74	Synthesis of 2-Alkylidene-3,3-dialkyl-1,4-dithianes and Their Oxathiane Analogues by 1,2-Sulphur Migration. <i>Heterocycles</i> , 1998, 48, 1121.	0.7	8
75	On the diastereoselectivity of the 1,2-reduction of 2-alkyl-4-hydroxycyclopentenones with sodium borohydride in the presence of cerium (III): Synthesis of prostaglandin precursors. <i>Tetrahedron Letters</i> , 1995, 36, 2321-2324.	1.4	7
76	Efficient $\hat{\pm}$ -chlorination of carbonyl containing compounds under basic conditions using methyl chlorosulfate. <i>Tetrahedron Letters</i> , 2018, 59, 1233-1238.	1.4	7
77	Preparation of sucrose heptaesters unsubstituted at the C-1 hydroxy group of the fructose moiety via selective O-desilylation. <i>Carbohydrate Research</i> , 2000, 328, 419-423.	2.3	6
78	Synthesis and characterization of CdSe/ZnS core-shell quantum dots immobilized on solid substrates through laser irradiation. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2012, 209, 2201-2207.	1.8	6
79	A Stereoselective Synthesis of (+)-Piscidic Acid and Cimicifugic Acid L. <i>European Journal of Organic Chemistry</i> , 2015, 2015, 7529-7533.	2.4	6
80	Peptidomimetic $\hat{2}$ -Secretase Inhibitors Comprising a Sequence of Amyloid- $\hat{2}$ Peptide for Alzheimer's Diseases. <i>Journal of Medicinal Chemistry</i> , 2015, 58, 5408-5418.	6.4	6
81	Synthesis and biological activity of a potent optically pure autoinducer-2 quorum sensing agonist. <i>Bioorganic Chemistry</i> , 2019, 85, 75-81.	4.1	6
82	Simple synthesis of chiral thiirancarboxylic acids. <i>Journal of the Chemical Society Chemical Communications</i> , 1976, , 234.	2.0	5
83	(3R,4R)-4- $\hat{t}$ -Butylthio-3-phenylacetamidoazetidin-2-one: a useful precursor of penicillin analogues. <i>Journal of the Chemical Society Chemical Communications</i> , 1980, , 34.	2.0	5
84	Assessment of the Efficacy of Solutes from Extremophiles on Protein Aggregation in Cell Models of Huntington's and Parkinson's Diseases. <i>Neurochemical Research</i> , 2011, 36, 1005-1011.	3.3	5
85	Synthesis and Some Reactions of 2-Acyl-2-alkyl-1,3-dithiolane 1,1-Dioxides. <i>Helvetica Chimica Acta</i> , 2002, 85, 4079-4085.	1.6	4
86	Analysis of the residual alignment of a paramagnetic multiheme cytochrome by NMR. <i>Chemical Communications</i> , 2014, 50, 4561.	4.1	4
87	Studies related to penicillins. Part 25. Synthesis of N-phenylacetyl and N-triphenylmethyl derivatives of 6-aminopenam 1-oxides. <i>Journal of the Chemical Society Perkin Transactions 1</i> , 1988, , 2259.	0.9	3
88	Preparation of N-arylamines from 2-oxo-7-azobicyclo[4.1.0]heptanes. <i>Tetrahedron</i> , 2012, 68, 6263-6268.	1.9	3
89	Synthesis and Functionalization of CdSe/ZnS QDs Using the Successive Ion Layer Adsorption Reaction and Mercaptopropionic Acid Phase Transfer Methods. <i>Methods in Molecular Biology</i> , 2012, 906, 143-155.	0.9	3
90	The effect of new compounds in stabilizing downstream monoclonal antibody (mAb) process intermediates. <i>International Journal of Pharmaceutics</i> , 2019, 565, 162-173.	5.2	3

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91	Synthesis of $\alpha^2$ -oxo carbonyl and thiocarbonyl compounds via basic sulfur abstraction. <i>Tetrahedron</i> , 2019, 75, 130552.	1.9	2
92	Photochemistry of flavothione and hydroxyflavothiones: mechanisms and kinetics. <i>Photochemistry and Photobiology</i> , 2003, 77, 22-9.	2.5	2
93	An Alternative Synthetic Route to (3R,5S,1 $\alpha^2$ S)-5-{1 $\alpha^2$ -[(tert-Butyl $\alpha$ oxycarbonyl)amino]-3 $\alpha^2$ -methylbutyl}-3-methyldihydrofuran-2(3H)-one, a Precursor of a Leu-Ala Hydroxyethylene Isostere. <i>Synthesis</i> , 2015, 47, 3009-3012.	2.3	1
94	Chemoenzymatic preparation of optically active cyclic 4-hydroxy-acylaziridines. <i>Organic Chemistry Frontiers</i> , 2017, 4, 1620-1623.	4.5	1
95	Syntheses of the plant auxin conjugate 2-O-(indole-3-acetyl)-myo-inositol IAlnos. <i>Organic and Biomolecular Chemistry</i> , 2018, 16, 6860-6864.	2.8	1
96	An Efficient Synthesis of Optically Active [4-13C] Labelled Quorum Sensing Signal Autoinducer-2. <i>Molecules</i> , 2021, 26, 369.	3.8	1
97	Cutinase activity and enantioselectivity in supercritical fluids. <i>Progress in Biotechnology</i> , 1998, , 483-486.	0.2	0
98	A Synthesis of Aziridines from $\alpha$ -Iodoenones.. <i>ChemInform</i> , 2010, 33, 106-106.	0.0	0
99	Photochemistry of Flavothione and Hydroxyflavothiones: Mechanisms and Kinetics. <i>Photochemistry and Photobiology</i> , 2003, 77, 22.	2.5	0