

Matthew Lloyd D

List of Publications by Year in descending order

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82
papers

3,087
citations

156536

32
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190340

53
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84
docs citations

84
times ranked

3198
citing authors

#	ARTICLE	IF	CITATIONS
1	Selenium Status in Diet Affects Acetaminophen-Induced Hepatotoxicity via Interruption of Redox Environment. <i>Antioxidants and Redox Signaling</i> , 2021, 34, 1355-1367.	2.5	13
2	Racemases and epimerases operating through a 1,1-proton transfer mechanism: reactivity, mechanism and inhibition. <i>Chemical Society Reviews</i> , 2021, 50, 5952-5984.	18.7	9
3	UVA-Triggered Drug Release and Photo-Protection of Skin. <i>Frontiers in Cell and Developmental Biology</i> , 2021, 9, 598717.	1.8	16
4	Steady-state enzyme kinetics. <i>Biochemist</i> , 2021, 43, 40-45.	0.2	3
5	High-Throughput Screening for the Discovery of Enzyme Inhibitors. <i>Journal of Medicinal Chemistry</i> , 2020, 63, 10742-10772.	2.9	47
6	Identification of novel small-molecule inhibitors of $\hat{\pm}$ -methylacyl-CoA racemase (AMACR; P504S) and structure-activity relationships. <i>Bioorganic Chemistry</i> , 2019, 92, 103264.	2.0	11
7	Novel 2-arylthiopropionyl-CoA inhibitors of $\hat{\pm}$ -methylacyl-CoA racemase 1A (AMACR; P504S) as potential anti-prostate cancer agents. <i>Bioorganic Chemistry</i> , 2019, 92, 103263.	2.0	9
8	Long-wavelength TCF-based fluorescence probes for the detection and intracellular imaging of biological thiols. <i>Chemical Communications</i> , 2018, 54, 4786-4789.	2.2	68
9	Structure-activity relationships of rationally designed AMACR 1A inhibitors. <i>Bioorganic Chemistry</i> , 2018, 79, 145-154.	2.0	8
10	A novel colorimetric assay for $\hat{\pm}$ -methylacyl-CoA racemase 1A (AMACR; P504S) utilizing the elimination of 2,4-dinitrophenolate. <i>Chemical Communications</i> , 2017, 53, 5087-5090.	2.2	18
11	Highly Potent and Isoform Selective Dual Site Binding Tankyrase/Wnt Signaling Inhibitors That Increase Cellular Glucose Uptake and Have Antiproliferative Activity. <i>Journal of Medicinal Chemistry</i> , 2017, 60, 814-820.	2.9	40
12	Structure-activity relationships of 2-arylquinazolin-4-ones as highly selective and potent inhibitors of the tankyrases. <i>European Journal of Medicinal Chemistry</i> , 2016, 118, 316-327.	2.6	24
13	The different catalytic roles of the metal-binding ligands in human 4-hydroxyphenylpyruvate dioxygenase. <i>Biochemical Journal</i> , 2016, 473, 1179-1189.	1.7	13
14	Electro-Engineered Polymeric Films for the Development of Sensitive Aptasensors for Prostate Cancer Marker Detection. <i>ACS Sensors</i> , 2016, 1, 1308-1314.	4.0	35
15	A study on the AMACR catalysed elimination reaction and its application to inhibitor testing. <i>Organic and Biomolecular Chemistry</i> , 2016, 14, 612-622.	1.5	10
16	Structure-based design, synthesis and evaluation in vitro of aryl-naphthyridinones, arylpyridopyrimidinones and their tetrahydro derivatives as inhibitors of the tankyrases. <i>Bioorganic and Medicinal Chemistry</i> , 2015, 23, 3013-3032.	1.4	36
17	Initial development of a cytotoxic amino-seco-CBI warhead for delivery by prodrug systems. <i>Bioorganic and Medicinal Chemistry</i> , 2015, 23, 3481-3489.	1.4	2
18	Exploration of the nicotinamide-binding site of the tankyrases, identifying 3-arylisoquinolin-1-ones as potent and selective inhibitors in vitro. <i>Bioorganic and Medicinal Chemistry</i> , 2015, 23, 5891-5908.	1.4	26

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19	A study on the chiral inversion of mandelic acid in humans. <i>Organic and Biomolecular Chemistry</i> , 2014, 12, 6737-6744.	1.5	13
20	The perils of rational design – unexpected irreversible elimination of fluoride from 3-fluoro-2-methylacyl-CoA esters catalysed by $\hat{\pm}$ -methylacyl-CoA racemase (AMACR; P504S). <i>Chemical Communications</i> , 2014, 50, 14164-14166.	2.2	9
21	One-pot tandem Hurtley –retro-Claisen– cyclisation reactions in the synthesis of 3-substituted analogues of 5-aminoisoquinolin-1-one (5-AIQ), a water-soluble inhibitor of PARPs. <i>Bioorganic and Medicinal Chemistry</i> , 2013, 21, 5218-5227.	1.4	19
22	Design and Discovery of 2-Arylquinazolin-4-ones as Potent and Selective Inhibitors of Tankyrases. <i>ACS Medicinal Chemistry Letters</i> , 2013, 4, 1173-1177.	1.3	35
23	Hydrolysis of ibuprofenoyl-CoA and other 2-APA-CoA esters by human acyl-CoA thioesterases-1 and -2 and their possible role in the chiral inversion of profens. <i>Biochemical Pharmacology</i> , 2013, 86, 1621-1625.	2.0	12
24	$\hat{\pm}$ -Methylacyl-CoA racemase (AMACR): Metabolic enzyme, drug metabolizer and cancer marker P504S. <i>Progress in Lipid Research</i> , 2013, 52, 220-230.	5.3	75
25	New aminocyclitols with quaternary stereocentres via acylnitroso cycloaddition with an ipso,ortho arene dihydrodiol. <i>Tetrahedron</i> , 2013, 69, 5989-5997.	1.0	38
26	Chiral inversion of 2-arylpropionyl-CoA esters by human $\hat{\pm}$ -methylacyl-CoA racemase 1A (P504S) –a potential mechanism for the anti-cancer effects of ibuprofen. <i>Chemical Communications</i> , 2011, 47, 7332.	2.2	38
27	5-Benzamidoisoquinolin-1-ones and 5-(1%-Carboxyalkyl)isoquinolin-1-ones as Isoform-Selective Inhibitors of Poly(ADP-ribose) Polymerase 2 (PARP-2). <i>Journal of Medicinal Chemistry</i> , 2011, 54, 2049-2059.	2.9	46
28	N3-Alkylation during formation of quinazolin-4-ones from condensation of anthranilamides and orthoamides. <i>Organic and Biomolecular Chemistry</i> , 2011, 9, 6089.	1.5	17
29	Synthesis of 4-alkyl-, 4-aryl- and 4-arylamino-5-aminoisoquinolin-1-ones and identification of a new PARP-2 selective inhibitor. <i>Organic and Biomolecular Chemistry</i> , 2011, 9, 881-891.	1.5	14
30	$\hat{\alpha}$ -nosaminoacids – novel inositol –amino acid hybrid structures accessed by microbial arene oxidation. <i>Chemical Communications</i> , 2011, 47, 4799.	2.2	47
31	S-2-Amino-4-cyanobutanoic acid ($\hat{2}$ -cyanomethyl-l-Ala) as an atom-efficient solubilising synthon for l-glutamine. <i>Tetrahedron Letters</i> , 2011, 52, 5311-5314.	0.7	0
32	Cloning, purification, crystallization and preliminary crystallographic analysis of the human histone deacetylase sirtuin 1. <i>Acta Crystallographica Section F: Structural Biology Communications</i> , 2011, 67, 461-463.	0.7	1
33	Structures of Human Carbonic Anhydrase II/Inhibitor Complexes Reveal a Second Binding Site for Steroidal and Nonsteroidal Inhibitors. <i>Biochemistry</i> , 2010, 49, 3464-3476.	1.2	18
34	Unexpected stereoselective exchange of straight-chain fatty acyl-CoA $\hat{\pm}$ -protons by human $\hat{\pm}$ -methylacyl-CoA racemase 1A (P504S). <i>Chemical Communications</i> , 2010, 46, 3348.	2.2	12
35	4-Substituted 5-nitroisoquinolin-1-ones from intramolecular Pd-catalysed reaction of N-(2-alkenyl)-2-halo-3-nitrobenzamides. <i>Tetrahedron</i> , 2009, 65, 4751-4765.	1.0	14
36	Synthesis of 2-(4-carboxybutenyl)- and 2-(4-carboxybutynyl)-cyclopentene-1-carboxamides. <i>Tetrahedron</i> , 2009, 65, 8176-8184.	1.0	10

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37	Synthesis and use of isotope-labelled substrates for a mechanistic study on human Î±-methylacyl-CoA racemase 1A (AMACR; P504S). <i>Organic and Biomolecular Chemistry</i> , 2009, 7, 543-552.	1.5	35
38	Design, Synthesis, and Evaluation in Vitro of Quinoline-8-carboxamides, a New Class of Poly(adenosine-diphosphate-ribose)polymerase-1 (PARP-1) Inhibitor. <i>Journal of Medicinal Chemistry</i> , 2009, 52, 868-877.	2.9	76
39	Î±-Methylacyl-CoA racemaseâ€”an “obscure” metabolic enzyme takes centre stage. <i>FEBS Journal</i> , 2008, 275, 1089-1102.	2.2	98
40	A microtitre plate assay for measuring glycosidase activity. <i>Journal of Enzyme Inhibition and Medicinal Chemistry</i> , 2008, 23, 131-135.	2.5	11
41	Characterisation of recombinant human fatty aldehyde dehydrogenase: Implications for SjÃ¶gren-Larsson syndrome. <i>Journal of Enzyme Inhibition and Medicinal Chemistry</i> , 2007, 22, 584-590.	2.5	14
42	Dr Brian Gibberd (1931â€”2006): a pioneering clinician in Refsum's disease. <i>Biochemical Society Transactions</i> , 2007, 35, 862-864.	1.6	2
43	Synthesis and conformational and configurational studies of diastereoisomeric O-protected 4-(arylsulfonimidoyl)butane-1,2,3-triols. <i>Tetrahedron</i> , 2007, 63, 12601-12607.	1.0	2
44	Crystal structure of human carbonic anhydrase II at 1.95 Ã… resolution in complex with 667-coumate, a novel anti-cancer agent. <i>Biochemical Journal</i> , 2005, 385, 715-720.	1.7	55
45	Studies on the specificity of unprocessed and mature forms of phytanoyl-CoA 2-hydroxylase and mutation of the iron binding ligands. <i>Journal of Lipid Research</i> , 2005, 46, 1660-1667.	2.0	15
46	First Crystal Structures of Human Carbonic Anhydrase II in Complex with Dual Aromatase~Steroid Sulfatase Inhibitorsâ€”i. <i>Biochemistry</i> , 2005, 44, 6858-6866.	1.2	42
47	The advantages and limitations of protein crystal structures. <i>Trends in Pharmacological Sciences</i> , 2005, 26, 10-14.	4.0	91
48	Controlling the Substrate Selectivity of Deacetoxycephalosporin/deacetylcephalosporin C Synthase. <i>Journal of Biological Chemistry</i> , 2004, 279, 15420-15426.	1.6	32
49	Role of Phytanoyl-CoA 2-Hydroxylase in Phytanic Acid Metabolism. <i>Advances in Experimental Medicine and Biology</i> , 2004, 544, 303-304.	0.8	1
50	The kinetic properties of various R258 mutants of deacetoxycephalosporin C synthase. <i>FEBS Journal</i> , 2003, 270, 1301-1307.	0.2	10
51	The chemical biology of branched-chain lipid metabolism. <i>Progress in Lipid Research</i> , 2003, 42, 359-376.	5.3	71
52	Phytanic acid alpha-oxidation, new insights into an old problem: a review. <i>Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids</i> , 2003, 1631, 119-135.	1.2	65
53	Metabolism of phytanic acid and 3-methyl-adipic acid excretion in patients with adult Refsum disease. <i>Journal of Lipid Research</i> , 2003, 44, 1481-1488.	2.0	36
54	Active Site Mutations of Recombinant Deacetoxycephalosporin C Synthase. <i>Biochemical and Biophysical Research Communications</i> , 2002, 292, 66-70.	1.0	20

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55	Refsum's disease: a peroxisomal disorder affecting phytanic acid alpha-oxidation. <i>Journal of Neurochemistry</i> , 2002, 80, 727-735.	2.1	182
56	Utilization of Sterol Carrier Protein-2 by Phytanoyl-CoA 2-Hydroxylase in the Peroxisomal β -Oxidation of Phytanic Acid. <i>Chemistry and Biology</i> , 2002, 9, 597-605.	6.2	51
57	The role of arginine residues in substrate binding and catalysis by deacetoxycephalosporin C synthase. <i>FEBS Journal</i> , 2002, 269, 2735-2739.	0.2	27
58	Kinetic and crystallographic studies on deacetoxycephalosporin C synthase (DAOCS). <i>Journal of Molecular Biology</i> , 2001, 308, 937-948.	2.0	99
59	Chemical co-substrate rescue of phytanoyl-CoA 2-hydroxylase mutants causing Refsum's Disease. <i>Chemical Communications</i> , 2001, , 972-973.	2.2	27
60	Probing the penicillin sidechain selectivity of recombinant deacetoxycephalosporin C synthase. <i>Cellular and Molecular Life Sciences</i> , 2001, 58, 835-843.	2.4	27
61	Contrasting fates for 6-methylpenicillin N upon oxidation by deacetoxycephalosporin C synthase (DAOCS) and deacetoxy/deacetylcephalosporin C synthase (DAOC/DACS). <i>Bioorganic and Medicinal Chemistry Letters</i> , 2001, 11, 2511-2514.	1.0	5
62	Studies on phytanoyl-CoA 2-hydroxylase and synthesis of phytanoyl-Coenzyme A. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2001, 11, 2545-2548.	1.0	23
63	Alteration of the Co-substrate Selectivity of Deacetoxycephalosporin C Synthase. <i>Journal of Biological Chemistry</i> , 2001, 276, 18290-18295.	1.6	35
64	Structure-function analysis of phytanoyl-CoA 2-hydroxylase mutations causing Refsum's disease. <i>Human Molecular Genetics</i> , 2001, 10, 1971-1982.	1.4	64
65	The Effect of Cysteine Mutations on Recombinant Deacetoxycephalosporin C Synthase from <i>S. clavuligerus</i> . <i>Biochemical and Biophysical Research Communications</i> , 2000, 267, 445-448.	1.0	28
66	The iron(II) and 2-oxoacid-dependent dioxygenases and their role in metabolism (1967 to 1999). <i>Natural Product Reports</i> , 2000, 17, 367-383.	5.2	175
67	Product-substrate engineering by bacteria: Studies on clavamate synthase, a trifunctional dioxygenase. <i>Tetrahedron</i> , 1999, 55, 10201-10220.	1.0	52
68	Studies on the active site of deacetoxycephalosporin C synthase. <i>Journal of Molecular Biology</i> , 1999, 287, 943-960.	2.0	111
69	Structure of a cephalosporin synthase. <i>Nature</i> , 1998, 394, 805-809.	13.7	344
70	Studies on non-haem ferrous-dependent oxygenases and oxidases. <i>Biochemical Society Transactions</i> , 1997, 25, 86-90.	1.6	7
71	Chemo-enzymatic synthesis of bicyclic β -lactams using clavaminic acid synthase. <i>Tetrahedron</i> , 1997, 53, 7011-7020.	1.0	13
72	Competing pathways in the oxidation of 3-ethylidene cephalosporin C by the enzyme deacetoxycephalosporin C synthase (DAOCS). <i>Bioorganic and Medicinal Chemistry Letters</i> , 1997, 7, 593-596.	1.0	2

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73	Fast Staining and Destaining of Sodium Dodecyl Sulfate-Polyacrylamide Gels. <i>Analytical Biochemistry</i> , 1996, 241, 139-140.	1.1	4
74	Adipoyl-6-aminopenicillanic acid is a substrate for deacetoxycephalosporin C synthase (DAOCS). <i>Bioorganic and Medicinal Chemistry Letters</i> , 1996, 6, 1579-1584.	1.0	14
75	Crystallization and preliminary X-ray diffraction analysis of recombinant pentalenene synthase. <i>Protein Science</i> , 1995, 4, 2436-2438.	3.1	11
76	Expression in <i>Escherichia coli</i> of a clavaminic acid synthase isozyme: A trifunctional oxygenase involved in clavulanic acid biosynthesis. <i>Tetrahedron</i> , 1994, 50, 8737-8748.	1.0	25
77	Pentalenene Synthase. Purification, Molecular Cloning, Sequencing, and High-Level Expression in <i>Escherichia coli</i> of a Terpenoid Cyclase from <i>Streptomyces</i> UC5319. <i>Biochemistry</i> , 1994, 33, 5846-5857.	1.2	142
78	Substrate analogue studies on clavaminic acid synthase. <i>Journal of the Chemical Society Chemical Communications</i> , 1993, , 1694.	2.0	11
79	A substrate analogue study on clavaminic acid synthase: possible clues to the biosynthetic origin of proclavaminic acid. <i>Journal of the Chemical Society Chemical Communications</i> , 1993, , 500.	2.0	42
80	Enzymatic synthesis of bicyclic β -lactams using clavaminic acid synthase. <i>Journal of the Chemical Society Chemical Communications</i> , 1992, , 877-879.	2.0	9
81	Isolation of dihydroclavaminic acid, an intermediate in the biosynthesis of clavulanic acid. <i>Tetrahedron</i> , 1991, 47, 4089-4100.	1.0	53
82	Isolation of an intermediate in clavulanic acid biosynthesis. <i>Journal of the Chemical Society Chemical Communications</i> , 1990, , 617.	2.0	22