

Robert L White

List of Publications by Year in descending order

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61
papers

1,318
citations

394421

19
h-index

377865

34
g-index

61
all docs

61
docs citations

61
times ranked

1415
citing authors

#	ARTICLE	IF	CITATIONS
1	Disposable Emitters for On-line Capillary Zone Electrophoresis/Nanoelectrospray Mass Spectrometry. <i>Rapid Communications in Mass Spectrometry</i> , 1997, 11, 307-315.	1.5	114
2	Isolation and characterization of an anti-HSV polysaccharide from <i>Prunella vulgaris</i> . <i>Antiviral Research</i> , 1999, 44, 43-54.	4.1	109
3	Characterization of protein glycoforms by capillary-zone electrophoresis-nanoelectrospray mass spectrometry. <i>Journal of Chromatography A</i> , 1998, 794, 327-344.	3.7	60
4	Proteomic investigation of amino acid catabolism in the indigenous gut anaerobe <i>Fusobacterium varium</i> . <i>Proteomics</i> , 2008, 8, 2691-2703.	2.2	58
5	Biosynthesis of Vitamin B1 (Thiamin): An Instance of Biochemical Diversity. <i>Angewandte Chemie International Edition in English</i> , 1997, 36, 1032-1046.	4.4	56
6	Fragmentation pathways of negative ions produced by electrospray ionization of acyclic dicarboxylic acids and derivatives. <i>Canadian Journal of Chemistry</i> , 2005, 83, 1878-1890.	1.1	56
7	Evaluation of adsorption preconcentration/capillary zone electrophoresis/nanoelectrospray mass spectrometry for peptide and glycoprotein analyses. <i>Journal of Chromatography A</i> , 1998, 33, 1109-1123.		52
8	Thiamin biosynthesis in yeast. Origin of the five-carbon unit of the thiazole moiety. <i>Journal of the American Chemical Society</i> , 1982, 104, 4934-4943.	13.7	50
9	Biosynthesis of the dichloroacetyl component of chloramphenicol in <i>Streptomyces venezuelae</i> ISP5230: genes required for halogenation. <i>Microbiology (United Kingdom)</i> , 2004, 150, 85-94.	1.8	48
10	Peroxidases from marine microalgae. <i>Journal of Applied Phycology</i> , 2000, 12, 507-513.	2.8	47
11	Biosynthesis of the dideoxysugar component of jadomycin B: genes in the jad cluster of <i>Streptomyces venezuelae</i> ISP5230 for l-digitoxose assembly and transfer to the angucycline aglycone The GenBank accession number for the sequence reported in this paper is AY026363.. <i>Microbiology (United Kingdom)</i> , 2004, 150, 85-94.	1.8	47
12	Identification of reaction products from reactions of free chlorine with the lipid-regulator gemfibrozil. <i>Water Research</i> , 2011, 45, 1414-1422.	11.3	42
13	Cell-free biosynthesis of penicillins. Conversion of peptides into new beta-lactam antibiotics. <i>Journal of the American Chemical Society</i> , 1981, 103, 7650-7651.	13.7	39
14	The influence of structural features on facile McLafferty-type, even-electron rearrangements in tandem mass spectra of carboxylate anions. <i>Rapid Communications in Mass Spectrometry</i> , 2006, 20, 1511-1516.	1.5	39
15	Proteomic investigation of glucose metabolism in the butyrate-producing gut anaerobe <i>Fusobacterium varium</i> . <i>Proteomics</i> , 2007, 7, 1839-1853.	2.2	37
16	Chemical Constituents from Stem Bark and Roots of <i>Clausena anisata</i> . <i>Molecules</i> , 2012, 17, 13673-13686.	3.8	37
17	Quantitative determination of the neurotoxin β -N-methylamino-L-alanine (BMAA) by capillary electrophoresis-tandem mass spectrometry. <i>Analytical and Bioanalytical Chemistry</i> , 2017, 409, 1481-1491.	3.7	32
18	Thiamin biosynthesis in <i>Saccharomyces cerevisiae</i> : origin of the pyrimidine unit. <i>Journal of the American Chemical Society</i> , 1986, 108, 146-158.	13.7	23

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19	Biosynthesis of vitamin B1 in yeast. Origin of the thiazole unit. Journal of the American Chemical Society, 1979, 101, 5102-5104.	13.7	21
20	Conversion of 17O/18O labelled $\hat{\gamma}$ -(L- $\hat{\alpha}$ -aminoadipyl)-L-cysteinyl-D-valine to 17O/18O labelled isopenicillin n in a cell-free extract of . A study by 17O-NMR spectroscopy and mass spectrometry. Tetrahedron, 1983, 39, 1061-1068.	1.9	20
21	Direct n.m.r. observation of cell-free conversion of (L- $\hat{\alpha}$ -amino- $\hat{\gamma}$ -adipyl)-L-cysteinyl-D-valine into isopenicillin N. Journal of the Chemical Society Chemical Communications, 1980, , 1271-1273.	2.0	19
22	Isolation of 3 $\hat{\alpha}$ -O-Acetylchloramphenicol: A possible intermediate in chloramphenicol biosynthesis. Bioorganic and Medicinal Chemistry Letters, 2002, 12, 283-286.	2.2	17
23	Biosynthesis of the unusual amino acid, 5-hydroxy-4-oxonorvaline. Journal of the American Chemical Society, 1988, 110, 8228-8229.	13.7	16
24	Inactivation of Etamycin by a Novel Elimination Mechanism in Streptomyces lividans. Journal of the American Chemical Society, 1996, 118, 5335-5338.	13.7	16
25	An isotopic labeling method for determining production of volatile organohalogens by marine microalgae. Limnology and Oceanography, 2000, 45, 1868-1871.	3.1	15
26	Metabolic footprinting of the anaerobic bacterium Fusobacterium varium using 1H NMR spectroscopy. Molecular BioSystems, 2011, 7, 2220.	2.9	14
27	Correlations of ion structure with multiple fragmentation pathways arising from collision-induced dissociations of selected $\hat{\alpha}$ -hydroxycarboxylic acid anions. Journal of Mass Spectrometry, 2013, 48, 312-320.	1.6	14
28	Regioselective N $\hat{\alpha}$ -Alkylation of Ethyl 4 $\hat{\alpha}$ -Benzyloxy-1,2,3 $\hat{\alpha}$ -triazolecarboxylate: A Useful Tool for the Synthesis of Carboxylic Acid Bioisosteres. Journal of Heterocyclic Chemistry, 2019, 56, 501-519.	2.6	14
29	Direct 1H n.m.r. observation of the cell-free conversion of $\hat{\gamma}$ -(L- $\hat{\alpha}$ -aminoadipyl)-L-cysteinyl-D-valine and $\hat{\gamma}$ -(L- $\hat{\alpha}$ -aminoadipyl)-L-cysteinyl-D-($\hat{\alpha}$ "-)-isoleucine into penicillins. Journal of the Chemical Society Chemical Communications, 1981, , 917-919.	2.0	13

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37	Molecular Cloning and Characterization of a Novel Mouse Macrophage Gene That Encodes a Nuclear Protein Comprising Polyglutamine Repeats and Interspersing Histidines. <i>Journal of Biological Chemistry</i> , 1996, 271, 25515-25523.	3.4	10
38	Glutamate racemization and catabolism in <i>Fusobacterium varium</i> . <i>FEBS Journal</i> , 2011, 278, 2540-2551.	4.7	9
39	Rearrangements Leading to Fragmentations of Hydrocinnamate and Analogous Nitrogen-Containing Anions Upon Collision-Induced Dissociation. <i>Journal of the American Society for Mass Spectrometry</i> , 2014, 25, 388-397.	2.8	9
40	Conversion of 17O/18O-labelled L-(L- α -aminoadipyl)-L-cysteinyll-D-valine into 17O/18O-labelled isopenicillin N in a cell-free extract of <i>C. acremonium</i> . <i>Journal of the Chemical Society Chemical Communications</i> , 1982, , 137-139.	2.0	8
41	Isolation of N-Acetyl-3,4-dihydroxy-L-phenylalanine from <i>Streptomyces akiyoshiensis</i> . <i>Journal of Natural Products</i> , 1995, 58, 1274-1277.	3.0	7
42	Monocyclic β -lactam tripeptide, 1-(D-carboxy-2-methylpropyl)-3-L-(L-2-aminoadipamido)-4-L-mercaptoazetidino-2-one, a putative intermediate in penicillin biosynthesis. <i>Journal of the Chemical Society Chemical Communications</i> , 1982, , 1130-1132.	2.0	6
43	The Identification of 5-Hydroxyl-L-norvaline in Cultures of Pyridoxine Auxotrophs of <i>Escherichia coli</i> B. <i>Journal of Natural Products</i> , 1993, 56, 1246-1254.	3.0	6
44	Correction. Thiamin Biosynthesis in <i>Saccharomyces cerevisiae</i> : Origin of the Pyrimidine Unit. <i>Journal of the American Chemical Society</i> , 1986, 108, 3863-3863.	13.7	5
45	Biosynthesis of Armentomycin: A Chlorinated Nonprotein Amino Acid. <i>Journal of Antibiotics</i> , 1995, 48, 347-348.	2.0	5
46	Purification and characterization of beta-methylaspartase from <i>Fusobacterium varium</i> . <i>Molecular and Cellular Biochemistry</i> , 2001, 221, 117-126.	3.1	5
47	Heterocyclic ring cleavage upon collision-induced dissociation of deprotonated 3-hydroxy-1,2,5-oxadiazoles (3-hydroxyfurazans). <i>Journal of Mass Spectrometry</i> , 2015, 50, 1433-1437.	1.6	5
48	Probing the substrate specificity of an enzyme catalyzing inactivation of streptogramin B antibiotics using LC-MS and LC-MS/MS. , 1997, 32, 1057-1063.		4
49	Glycoprotein Analysis by Capillary Zone Electrophoresis-Electrospray Mass Spectrometry. , 2003, 213, 219-239.		4
50	Synthesis of the Neurotransmitter 4-Aminobutanoic Acid (GABA) from Diethyl Cyanomalonate. <i>Letters in Drug Design and Discovery</i> , 2010, 7, 9-13.	0.7	4
51	Enantioselective catabolism of racemic serine: preparation of d-serine using whole cells of <i>Fusobacterium nucleatum</i> . <i>Tetrahedron: Asymmetry</i> , 2011, 22, 1473-1478.	1.8	4
52	Characterization of multiple fragmentation pathways initiated by collision-induced dissociation of multifunctional anions formed by deprotonation of 2-nitrobenzenesulfonylglycine. <i>Journal of Mass Spectrometry</i> , 2014, 49, 168-177.	1.6	4
53	Competing fragmentation processes of β -substituted propanoate ions upon collision-induced dissociation. <i>Rapid Communications in Mass Spectrometry</i> , 2016, 30, 2133-2144.	1.5	4
54	Reduction of Fumarate to Succinate Mediated by <i>Fusobacterium varium</i> . <i>Applied Biochemistry and Biotechnology</i> , 2019, 187, 163-175.	2.9	4

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55	Phenyl group participation in rearrangements during collision-induced dissociation of deprotonated phenoxyacetic acid. <i>Rapid Communications in Mass Spectrometry</i> , 2015, 29, 2293-2301.	1.5	3
56	Fragmentation pathways arising from protonation at different sites in aminoalkyl-substituted 3-hydroxy-1,2,5-oxadiazoles (3-hydroxyfurazans). <i>Rapid Communications in Mass Spectrometry</i> , 2018, 32, 1403-1413.	1.5	3
57	Mutants of <i>Streptomyces akiyoshiensis</i> Blocked in 5-Hydroxy-4-oxonorvaline Production.. <i>Journal of Antibiotics</i> , 1996, 49, 107-109.	2.0	1
58	Synthesis and tandem mass spectrometry of chlorinated triacylglycerols. <i>Chemistry and Physics of Lipids</i> , 2013, 174, 55-63.	3.2	1
59	Fragmentation reactions of protonated \pm -diamino carboxylic acids: The importance of functional group interactions. <i>Journal of Mass Spectrometry</i> , 2021, 56, e4770.	1.6	1
60	Antibiotic Resistance in <i>Streptomyces lividans</i> : Fluorescence Assay for Streptogramin B Lyase. <i>Analytical Biochemistry</i> , 1997, 248, 297-299.	2.4	0
61	Thermal properties of 2-(aminomethyl) dicarboxylic acids. <i>Thermochimica Acta</i> , 2008, 468, 49-54.	2.7	0