

# Russell Pickford

## List of Publications by Year in descending order

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Version: 2024-02-01

55  
papers

2,606  
citations

201575

27  
h-index

197736

49  
g-index

61  
all docs

61  
docs citations

61  
times ranked

4291  
citing authors

#	ARTICLE	IF	CITATIONS
1	Biosynthetic Intermediate Analysis and Functional Homology Reveal a Saxitoxin Gene Cluster in Cyanobacteria. <i>Applied and Environmental Microbiology</i> , 2008, 74, 4044-4053.	1.4	322
2	Characterization of two <i>Pseudomonas putida</i> lipopeptide biosurfactants, putisolvin I and II, which inhibit biofilm formation and break down existing biofilms. <i>Molecular Microbiology</i> , 2003, 51, 97-113.	1.2	291
3	Dysregulation of lipids in Alzheimer's disease and their role as potential biomarkers. <i>Alzheimer's and Dementia</i> , 2017, 13, 810-827.	0.4	146
4	Loss of the neuroprotective factor Sphingosine 1-phosphate early in Alzheimer's disease pathogenesis. <i>Acta Neuropathologica Communications</i> , 2014, 2, 9.	2.4	138
5	Plastic leachates impair growth and oxygen production in <i>Prochlorococcus</i> , the ocean's most abundant photosynthetic bacteria. <i>Communications Biology</i> , 2019, 2, 184.	2.0	135
6	Acute or Chronic Upregulation of Mitochondrial Fatty Acid Oxidation Has No Net Effect on Whole-Body Energy Expenditure or Adiposity. <i>Cell Metabolism</i> , 2010, 11, 70-76.	7.2	133
7	2-Dimethylarsinothioyl Acetic Acid Identified in a Biological Sample: The First Occurrence of a Mammalian Arsenothioyl Metabolite. <i>Angewandte Chemie - International Edition</i> , 2004, 43, 337-340.	7.2	89
8	Gut Microbiota in Children With Cystic Fibrosis: A Taxonomic and Functional Dysbiosis. <i>Scientific Reports</i> , 2019, 9, 18593.	1.6	84
9	Reduced glucocerebrosidase activity in monocytes from patients with Parkinson's disease. <i>Scientific Reports</i> , 2018, 8, 15446.	1.6	82
10	A statistical comparison of silver and SYPRO Ruby staining for proteomic analysis. <i>Electrophoresis</i> , 2004, 25, 3048-3054.	1.3	68
11	Degradation of RAFT polymers in a cyclic ether studied via high resolution ESI-MS: Implications for synthesis, storage, and end-group modification. <i>Journal of Polymer Science Part A</i> , 2008, 46, 7447-7461.	2.5	67
12	Large Scale Mass Spectrometry-based Identifications of Enzyme-mediated Protein Methylation Are Subject to High False Discovery Rates. <i>Molecular and Cellular Proteomics</i> , 2016, 15, 989-1006.	2.5	65
13	Dolichol is the major lipid component of human substantia nigra neuromelanin. <i>Journal of Neurochemistry</i> , 2005, 92, 990-995.	2.1	61
14	Heterologous Production of Cyanobacterial Mycosporine-Like Amino Acids Mycosporine-Ornithine and Mycosporine-Lysine in <i>Escherichia coli</i> . <i>Applied and Environmental Microbiology</i> , 2016, 82, 6167-6173.	1.4	53
15	Plasma lipidome is dysregulated in Alzheimer's disease and is associated with disease risk genes. <i>Translational Psychiatry</i> , 2021, 11, 344.	2.4	51
16	Arsenosugar identification in seaweed extracts using high-performance liquid chromatography/electrospray ion trap mass spectrometry. <i>Rapid Communications in Mass Spectrometry</i> , 2002, 16, 323-331.	0.7	48
17	Comparison of Single Phase and Biphasic Extraction Protocols for Lipidomic Studies Using Human Plasma. <i>Frontiers in Neurology</i> , 2019, 10, 879.	1.1	48
18	Genotype to phenotype: Diet-by-mitochondrial DNA haplotype interactions drive metabolic flexibility and organismal fitness. <i>PLoS Genetics</i> , 2018, 14, e1007735.	1.5	46

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19	Comparative Profiling and Discovery of Novel Glycosylated Mycosporine-Like Amino Acids in Two Strains of the Cyanobacterium <i>Scytonema cf. crispum</i> . <i>Applied and Environmental Microbiology</i> , 2016, 82, 5951-5959.	1.4	43
20	Naturally-occurring folates in foods: Method development and analysis using liquid chromatography-tandem mass spectrometry (LC-MS/MS). <i>Food Chemistry</i> , 2011, 125, 736-742.	4.2	41
21	Plasma lipidome variation during the second half of the human lifespan is associated with age and sex but minimally with BMI. <i>PLoS ONE</i> , 2019, 14, e0214141.	1.1	40
22	Uncovering pathophysiological changes in frontotemporal dementia using serum lipids. <i>Scientific Reports</i> , 2020, 10, 3640.	1.6	39
23	Uncoupling N-acetylaspartate from brain pathology: implications for Canavan disease gene therapy. <i>Acta Neuropathologica</i> , 2018, 135, 95-113.	3.9	38
24	Directing the Heterologous Production of Specific Cyanobacterial Toxin Variants. <i>ACS Chemical Biology</i> , 2017, 12, 2021-2029.	1.6	37
25	Lipidomics Analysis of Behavioral Variant Frontotemporal Dementia: A Scope for Biomarker Development. <i>Frontiers in Neurology</i> , 2018, 9, 104.	1.1	36
26	The NSAID sulindac is chemopreventive in the mouse distal colon but carcinogenic in the proximal colon. <i>Gut</i> , 2011, 60, 350-360.	6.1	31
27	Application of the high mass accuracy capabilities of FT-ICR-MS and Q-ToF-MS to the characterisation of arsenic compounds in complex biological matrices. <i>Journal of Analytical Atomic Spectrometry</i> , 2002, 17, 173-176.	1.6	29
28	Insertions within the Saxitoxin Biosynthetic Gene Cluster Result in Differential Toxin Profiles. <i>ACS Chemical Biology</i> , 2018, 13, 3107-3114.	1.6	29
29	Bioinformatic, phylogenetic and chemical analysis of the UV-absorbing compounds scytonemin and mycosporine-like amino acids from the microbial mat communities of Shark Bay, Australia. <i>Environmental Microbiology</i> , 2019, 21, 702-715.	1.8	27
30	Degradation of fatty acid methyl esters in biodiesels exposed to sunlight and seawater. <i>Fuel</i> , 2011, 90, 2677-2683.	3.4	20
31	Metabolomics of Neurotransmitters and Related Metabolites in Post-Mortem Tissue from the Dorsal and Ventral Striatum of Alcoholic Human Brain. <i>Neurochemical Research</i> , 2016, 41, 385-397.	1.6	20
32	Mass Spectrometry of Carbohydrates: Newer Aspects. <i>Advances in Carbohydrate Chemistry and Biochemistry</i> , 2007, 61, 59-141.	0.4	19
33	Plasma lipidomic biomarker analysis reveals distinct lipid changes in vascular dementia. <i>Computational and Structural Biotechnology Journal</i> , 2020, 18, 1613-1624.	1.9	19
34	AGE-albumin enhances ABCA1 degradation by ubiquitin-proteasome and lysosomal pathways in macrophages. <i>Journal of Diabetes and Its Complications</i> , 2018, 32, 1-10.	1.2	18
35	Quantitative analysis of tissue folate using ultra high-performance liquid chromatography tandem mass spectrometry. <i>Analytical Biochemistry</i> , 2011, 411, 210-217.	1.1	15
36	Glycated albumin induces lipid infiltration in mice aorta independently of DM and RAS local modulation by inducing lipid peroxidation and inflammation. <i>Journal of Diabetes and Its Complications</i> , 2016, 30, 1614-1621.	1.2	14

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37	Molecular and morphological survey of saxitoxin-producing cyanobacterium <i>Dolichospermum circinale</i> ( <i>Anabaena circinalis</i> ) isolated from geographically distinct regions of Australia. <i>Toxicon</i> , 2017, 138, 68-77.	0.8	14
38	Thioimidazole based compounds reverse glucocorticoid resistance in human acute lymphoblastic leukemia xenografts. <i>Organic and Biomolecular Chemistry</i> , 2015, 13, 6299-6312.	1.5	13
39	N-acetylcysteine Counteracts Adipose Tissue Macrophage Infiltration and Insulin Resistance Elicited by Advanced Glycated Albumin in Healthy Rats. <i>Frontiers in Physiology</i> , 2017, 8, 723.	1.3	13
40	APOE Genotype Differentially Modulates Plasma Lipids in Healthy Older Individuals, with Relevance to Brain Health. <i>Journal of Alzheimer's Disease</i> , 2019, 72, 703-716.	1.2	13
41	Is there a role for stool metabolomics in cystic fibrosis?. <i>Pediatrics International</i> , 2016, 58, 808-811.	0.2	11
42	Increased VLCFA-lipids and ELOVL4 underlie neurodegeneration in frontotemporal dementia. <i>Scientific Reports</i> , 2021, 11, 21348.	1.6	11
43	The kainate receptor antagonist UBP310 but not single deletion of GluK1, GluK2, or GluK3 subunits, inhibits MPTP-induced degeneration in the mouse midbrain. <i>Experimental Neurology</i> , 2020, 323, 113062.	2.0	10
44	Subcellular relocalization and nuclear redistribution of the RNA methyltransferases TRMT1 and TRMT1L upon neuronal activation. <i>RNA Biology</i> , 2021, 18, 1905-1919.	1.5	9
45	Genetic and environmental determinants of variation in the plasma lipidome of older Australian twins. <i>ELife</i> , 2020, 9, .	2.8	8
46	Naturally occurring folates in selected traditionally prepared foods in Southern India. <i>Journal of Food Science and Technology</i> , 2017, 54, 4173-4180.	1.4	6
47	Quantifying Inorganic Nitrogen Assimilation by <i>Synechococcus</i> Using Bulk and Single-Cell Mass Spectrometry: A Comparative Study. <i>Frontiers in Microbiology</i> , 2018, 9, 2847.	1.5	6
48	Advanced Glycated apoA-IV Loses Its Ability to Prevent the LPS-Induced Reduction in Cholesterol Efflux-Related Gene Expression in Macrophages. <i>Mediators of Inflammation</i> , 2020, 2020, 1-11.	1.4	6
49	Heterologous Expression of an Unusual Ketosynthase, SxtA, Leads to Production of Saxitoxin Intermediates in <i>Escherichia coli</i> . <i>ChemBioChem</i> , 2021, 22, 845-849.	1.3	6
50	Simultaneous Fe <sub>3</sub> O <sub>4</sub> Nanoparticle Formation and Catalyst-Driven Hydrothermal Cellulose Degradation. <i>ACS Omega</i> , 2021, 6, 10790-10800.	1.6	4
51	Tailoring Enzyme Stringency Masks the Multispecificity of a Lyngbyatoxin (Indolactam Alkaloid) Nonribosomal Peptide Synthetase. <i>ChemBioChem</i> , 2021, , .	1.3	4
52	Acylcarnitine Abnormalities Implicate Mitochondrial Dysfunction in Patients With Neovascular Age-Related Macular Degeneration. , 2020, 61, 32.		3
53	Metabolomics shows the Australian dingo has a unique plasma profile. <i>Scientific Reports</i> , 2021, 11, 5245.	1.6	2
54	Mass Spectrometry-Based Metabolomic Analysis. , 2019, , 410-425.		1

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55	Assaying Ceramide Synthase Activity In Vitro and in Living Cells Using Liquid Chromatography-Mass Spectrometry. <i>Methods in Molecular Biology</i> , 2016, 1376, 11-22.	0.4	1