

# Jane Thomas-Oates

## List of Publications by Year in descending order

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49  
papers

3,819  
citations

126907

33  
h-index

214800

47  
g-index

49  
all docs

49  
docs citations

49  
times ranked

5320  
citing authors

#	ARTICLE	IF	CITATIONS
1	Species identification by analysis of bone collagen using matrix-assisted laser desorption/ionisation time-of-flight mass spectrometry. <i>Rapid Communications in Mass Spectrometry</i> , 2009, 23, 3843-3854.	1.5	467
2	Ancient proteins resolve the evolutionary history of Darwin's South American ungulates. <i>Nature</i> , 2015, 522, 81-84.	27.8	273
3	Distinguishing between archaeological sheep and goat bones using a single collagen peptide. <i>Journal of Archaeological Science</i> , 2010, 37, 13-20.	2.4	270
4	Mass spectrometry-based plant metabolomics: Metabolite responses to abiotic stress. <i>Mass Spectrometry Reviews</i> , 2016, 35, 620-649.	5.4	254
5	Protein sequences bound to mineral surfaces persist into deep time. <i>ELife</i> , 2016, 5, .	6.0	176
6	Molecular mechanisms of desiccation tolerance in the resurrection glacial relic <i>Haberlea rhodopensis</i> . <i>Cellular and Molecular Life Sciences</i> , 2013, 70, 689-709.	5.4	168
7	Metabolomic applications of HILIC-LC-MS. <i>Mass Spectrometry Reviews</i> , 2010, 29, 671-684.	5.4	151
8	Temporal and spatial variation in pharmaceutical concentrations in an urban river system. <i>Water Research</i> , 2018, 137, 72-85.	11.3	144
9	Enzymatic Shaving of the Tegument Surface of Live Schistosomes for Proteomic Analysis: A Rational Approach to Select Vaccine Candidates. <i>PLoS Neglected Tropical Diseases</i> , 2011, 5, e993.	3.0	129
10	Hydrophilic Interaction Chromatography for Mass Spectrometric Metabonomic Studies of Urine. <i>Analytical Chemistry</i> , 2007, 79, 8911-8918.	6.5	103
11	Hydrophilic interaction chromatography/electrospray mass spectrometry analysis of carbohydrate-related metabolites from <i>Arabidopsis thaliana</i> leaf tissue. <i>Rapid Communications in Mass Spectrometry</i> , 2008, 22, 1399-1407.	1.5	95
12	The Lipid Lysyl-Phosphatidylglycerol Is Present in Membranes of <i>Rhizobium tropici</i> CIAT899 and Confers Increased Resistance to Polymyxin B Under Acidic Growth Conditions. <i>Molecular Plant-Microbe Interactions</i> , 2007, 20, 1421-1430.	2.6	94
13	Fate and Uptake of Pharmaceuticals in Soil-Earthworm Systems. <i>Environmental Science &amp; Technology</i> , 2014, 48, 5955-5963.	10.0	88
14	Quantification of sugars and sugar phosphates in <i>Arabidopsis thaliana</i> tissues using porous graphitic carbon liquid chromatography-electrospray ionization mass spectrometry. <i>Journal of Chromatography A</i> , 2007, 1172, 170-178.	3.7	85
15	Polysaccharide-Derived Carbons for Polar Analyte Separations. <i>Advanced Functional Materials</i> , 2010, 20, 1834-1841.	14.9	82
16	Identification of a gene required for the formation of lyso-ornithine lipid, an intermediate in the biosynthesis of ornithine-containing lipids. <i>Molecular Microbiology</i> , 2004, 53, 1757-1770.	2.5	78
17	Comparing the survival of osteocalcin and mtDNA in archaeological bone from four European sites. <i>Journal of Archaeological Science</i> , 2008, 35, 1756-1764.	2.4	73
18	Low pH Changes the Profile of Nodulation Factors Produced by <i>Rhizobium tropici</i> CIAT899. <i>Chemistry and Biology</i> , 2005, 12, 1029-1040.	6.0	71

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19	Abundance of tegument surface proteins in the human blood fluke <i>Schistosoma mansoni</i> determined by QconCAT proteomics. <i>Journal of Proteomics</i> , 2011, 74, 1519-1533.	2.4	69
20	Mutation in GDP-Fucose Synthesis Genes of <i>Sinorhizobium fredii</i> Alters Nod Factors and Significantly Decreases Competitiveness to Nodulate Soybeans. <i>Molecular Plant-Microbe Interactions</i> , 1999, 12, 207-217.	2.6	64
21	Nodulation Gene Mutants of <i>Mesorhizobium loti</i> R7A "nodZ" and nolL Mutants Have Host-Specific Phenotypes on <i>Lotus</i> spp.. <i>Molecular Plant-Microbe Interactions</i> , 2009, 22, 1546-1554.	2.6	62
22	Localization of water-soluble carbohydrates in wheat stems using imaging matrix-assisted laser desorption ionization mass spectrometry. <i>New Phytologist</i> , 2007, 173, 438-444.	7.3	61
23	A method of isolating the collagen (I) $\alpha 2$ chain carboxyterminal peptide for species identification in bone fragments. <i>Analytical Biochemistry</i> , 2008, 374, 325-334.	2.4	60
24	Analysis of carbohydrates in <i>Lupinus albus</i> stems on imposition of water deficit, using porous graphitic carbon liquid chromatography-electrospray ionization mass spectrometry. <i>Journal of Chromatography A</i> , 2008, 1187, 111-118.	3.7	58
25	Evaluation of gel electrophoresis conditions for the separation of metal-tagged proteins with subsequent laser ablation ICP-MS detection. <i>Electrophoresis</i> , 2009, 30, 303-314.	2.4	58
26	Phosphorus-Free Membrane Lipids of <i>Sinorhizobium meliloti</i> Are Not Required for the Symbiosis with Alfalfa but Contribute to Increased Cell Yields Under Phosphorus-Limiting Conditions of Growth. <i>Molecular Plant-Microbe Interactions</i> , 2005, 18, 973-982.	2.6	57
27	Bioactivity studies and chemical profile of the antidiabetic plant <i>Genista tenera</i> . <i>Journal of Ethnopharmacology</i> , 2009, 122, 384-393.	4.1	51
28	Application of prioritization approaches to optimize environmental monitoring and testing of pharmaceuticals. <i>Journal of Toxicology and Environmental Health - Part B: Critical Reviews</i> , 2018, 21, 115-141.	6.5	51
29	Screening of Underivatized Oligosaccharides Extracted from the Stems of <i>Triticum aestivum</i> Using Porous Graphitized Carbon Liquid Chromatography-Mass Spectrometry. <i>Analytical Chemistry</i> , 2007, 79, 2437-2445.	6.5	45
30	Different and new Nod factors produced by <i>Rhizobium tropici</i> CIAT899 following Na <sup>+</sup> stress. <i>FEMS Microbiology Letters</i> , 2009, 293, 220-231.	1.8	43
31	The Dioxygenase-Encoding <i>olsD</i> Gene from <i>Burkholderia cenocepacia</i> Causes the Hydroxylation of the Amide-Linked Fatty Acyl Moiety of Ornithine-Containing Membrane Lipids. <i>Biochemistry</i> , 2011, 50, 6396-6408.	2.5	38
32	Capillary electrophoresis-mass spectrometry characterisation of secondary metabolites from the antihyperglycaemic plant <i>Genista tenera</i> . <i>Electrophoresis</i> , 2006, 27, 2164-2170.	2.4	37
33	Structural determination of the lipo-chitin oligosaccharide nodulation signals produced by <i>Rhizobium fredii</i> HH103. <i>Carbohydrate Research</i> , 1997, 303, 435-443.	2.3	36
34	Initial water deficit effects on <i>Lupinus albus</i> photosynthetic performance, carbon metabolism, and hormonal balance: metabolic reorganization prior to early stress responses. <i>Journal of Experimental Botany</i> , 2011, 62, 4965-4974.	4.8	33
35	Are exposure predictions, used for the prioritization of pharmaceuticals in the environment, fit for purpose?. <i>Environmental Toxicology and Chemistry</i> , 2017, 36, 2823-2832.	4.3	33
36	Genome sequencing of two <i>Neorhizobium galegae</i> strains reveals a noeT gene responsible for the unusual acetylation of the nodulation factors. <i>BMC Genomics</i> , 2014, 15, 500.	2.8	30

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37	A natural template approach to mesoporous carbon spheres for use as green chromatographic stationary phases. <i>RSC Advances</i> , 2014, 4, 222-228.	3.6	27
38	Rapid molecular mass and structural determination of plant cell wall-derived oligosaccharides using off-line high-performance anion-exchange chromatography/mass spectrometry. , 1998, 33, 713-720.		25
39	Denaturing and non-denaturing microsolution isoelectric focussing to mine the metalloproteome. <i>Metallomics</i> , 2009, 1, 501.	2.4	14
40	Structural determination of the lipo-chitin oligosaccharide nodulation signals produced by <i>Rhizobium giardinii</i> bv. <i>giardinii</i> H152. <i>Carbohydrate Research</i> , 2003, 338, 237-250.	2.3	13
41	Effect of rate of pyrolysis on the textural properties of naturally-templated porous carbons from alginic acid. <i>Journal of Analytical and Applied Pyrolysis</i> , 2016, 121, 62-66.	5.5	12
42	Predictive framework for estimating exposure of birds to pharmaceuticals. <i>Environmental Toxicology and Chemistry</i> , 2017, 36, 2335-2344.	4.3	11
43	Structural determination of the Nod factors produced by <i>Rhizobium gallicum</i> bv. <i>gallicum</i> R602. <i>FEMS Microbiology Letters</i> , 2006, 255, 164-173.	1.8	8
44	Alfalfa nodulation by <i>Sinorhizobium fredii</i> does not require sulfated Nod-factors. <i>Functional Plant Biology</i> , 2003, 30, 1219.	2.1	7
45	Trehalose During Two Stress Responses in <i>Acanthamoeba</i> : Differentiation Between Encystation and Pseudocyst Formation. <i>Protist</i> , 2017, 168, 649-662.	1.5	6
46	Distinctive phytohormonal and metabolic profiles of <i>Arabidopsis thaliana</i> and <i>Eutrema salsugineum</i> under similar soil drying. <i>Planta</i> , 2019, 249, 1417-1433.	3.2	5
47	Mannitol is not involved in protective reactions of <i>Acanthamoeba</i> . <i>Molecular and Biochemical Parasitology</i> , 2012, 184, 118-121.	1.1	3
48	Surface Shave: Revealing the Apical-Restricted Uroglycome. <i>Journal of Proteome Research</i> , 2022, 21, 360-374.	3.7	1
49	Fabrication and Application of Isotopically Labelled Gold Arrays for Multiplexed Peptide Analysis. <i>ChemBioChem</i> , 2016, 17, 2007-2011.	2.6	0