

Keith W Waldron

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

62

papers

3,368

citations

35

h-index

58

g-index

62

ext. papers

3,739

ext. citations

7.1

avg, IF

5.05

L-index

#	Paper	IF	Citations
62	Pectin – An emerging new bioactive food polysaccharide. <i>Trends in Food Science and Technology</i> , 2012 , 24, 64-73	15.3	262
61	Cell Wall Esterified Phenolic Dimers: Identification and Quantification by Reverse Phase High Performance Liquid Chromatography and Diode Array Detection. <i>Phytochemical Analysis</i> , 1996 , 7, 305-312	3.4	248
60	New approaches to understanding and controlling cell separation in relation to fruit and vegetable texture. <i>Trends in Food Science and Technology</i> , 1997 , 8, 213-221	15.3	226
59	Effect of Cooking and Pre-Cooking on Cell-Wall Chemistry in Relation to Firmness of Carrot Tissues. <i>Journal of the Science of Food and Agriculture</i> , 1997 , 73, 503-512	4.3	152
58	Optimization of pectin extraction from banana peels with citric acid by using response surface methodology. <i>Food Chemistry</i> , 2016 , 198, 113-8	8.5	143
57	Release of protein, lipid, and vitamin E from almond seeds during digestion. <i>Journal of Agricultural and Food Chemistry</i> , 2008 , 56, 3409-16	5.7	135
56	Texture of Chinese water chestnut: Involvement of cell wall phenolics. <i>Journal of the Science of Food and Agriculture</i> , 1995 , 68, 337-346	4.3	133
55	The Wall-Bound Phenolics of Chinese Water Chestnut (<i>Eleocharis dulcis</i>). <i>Journal of the Science of Food and Agriculture</i> , 1996 , 71, 501-507	4.3	119
54	Pre-treatment and extraction techniques for recovery of added value compounds from wastes throughout the agri-food chain. <i>Green Chemistry</i> , 2016 , 18, 6160-6204	10	101
53	Composition of the cell walls of different asparagus (<i>Asparagus officinalis</i>) tissues. <i>Physiologia Plantarum</i> , 1990 , 80, 568-575	4.6	96
52	Cauliflower (<i>Brassica oleracea</i> L), globe artichoke (<i>Cynara scolymus</i>) and chicory witloof (<i>Cichorium intybus</i>) processing by-products as sources of dietary fibre. <i>Journal of the Science of Food and Agriculture</i> , 1998 , 77, 511-518	4.3	78
51	Antisense down-regulation of the strawberry β -galactosidase gene <i>FaGal4</i> increases cell wall galactose levels and reduces fruit softening. <i>Journal of Experimental Botany</i> , 2016 , 67, 619-31	7	72
50	Rapid quantification of reducing sugars in biomass hydrolysates: Improving the speed and precision of the dinitrosalicylic acid assay. <i>Biomass and Bioenergy</i> , 2012 , 44, 117-121	5.3	72
49	Wheat straw hemicelluloses added with cellulose nanocrystals and citric acid. Effect on film physical properties. <i>Carbohydrate Polymers</i> , 2017 , 164, 317-324	10.3	68
48	Cell wall changes in immature Asparagus stem tissue after excision. <i>Phytochemistry</i> , 1992 , 31, 1931-40	4	67
47	High concentrations of cellulosic ethanol achieved by fed batch semi simultaneous saccharification and fermentation of waste-paper. <i>Bioresource Technology</i> , 2013 , 134, 117-26	11	65
46	The bioactivity of modified pectin fragments. <i>Bioactive Carbohydrates and Dietary Fibre</i> , 2013 , 1, 21-37	3.4	61

45	The effects of processing and mastication on almond lipid bioaccessibility using novel methods of in vitro digestion modelling and micro-structural analysis. <i>British Journal of Nutrition</i> , 2014 , 112, 1521-9	3.6	57
44	Modified sugar beet pectin induces apoptosis of colon cancer cells via an interaction with the neutral sugar side-chains. <i>Carbohydrate Polymers</i> , 2016 , 136, 923-9	10.3	55
43	Thermal stability of texture in Chinese water chestnut may be dependent on 8,8'-diferulic acid (aryltetralyn form). <i>Journal of Agricultural and Food Chemistry</i> , 2003 , 51, 2034-9	5.7	55
42	Wheat straw hemicellulose films as affected by citric acid. <i>Food Hydrocolloids</i> , 2015 , 50, 1-6	10.6	53
41	Characterization of cell wall components of wheat bran following hydrothermal pretreatment and fractionation. <i>Biotechnology for Biofuels</i> , 2015 , 8, 23	7.8	53
40	Enzymatic solubilization of brewers' spent grain by combined action of carbohydrases and peptidases. <i>Journal of Agricultural and Food Chemistry</i> , 2009 , 57, 3316-24	5.7	53
39	4-Hydroxycinnamoyl-CoA hydratase/lyase, an enzyme of phenylpropanoid cleavage from <i>Pseudomonas</i> , causes formation of C(6)-C(1) acid and alcohol glucose conjugates when expressed in hairy roots of <i>Datura stramonium</i> L. <i>Planta</i> , 2002 , 215, 79-89	4.7	49
38	Chemical characterisation and analysis of the cell wall polysaccharides of duckweed (<i>Lemna minor</i>). <i>Carbohydrate Polymers</i> , 2014 , 111, 410-8	10.3	48
37	Impact of steam explosion on biogas production from rape straw in relation to changes in chemical composition. <i>Bioresource Technology</i> , 2012 , 123, 608-15	11	48
36	Light-Driven H ₂ Evolution and C-C or C-O Bond Hydrogenation by <i>Shewanella oneidensis</i> : A Versatile Strategy for Photocatalysis by Nonphotosynthetic Microorganisms. <i>ACS Catalysis</i> , 2017 , 7, 7558-7566	13.1	47
35	The nanostructural characterization of strawberry pectins in pectate lyase or polygalacturonase silenced fruits elucidates their role in softening. <i>Carbohydrate Polymers</i> , 2015 , 132, 134-45	10.3	45
34	Rhamnogalacturonan I containing homogalacturonan inhibits colon cancer cell proliferation by decreasing ICAM1 expression. <i>Carbohydrate Polymers</i> , 2015 , 132, 546-53	10.3	45
33	A systematic micro-dissection of brewers' spent grain. <i>Journal of Cereal Science</i> , 2008 , 47, 357-364	3.8	45
32	Characterization of cell wall components of wheat straw following hydrothermal pretreatment and fractionation. <i>Bioresource Technology</i> , 2013 , 131, 226-34	11	44
31	Pomegranate peel pectin films as affected by montmorillonite. <i>Food Chemistry</i> , 2016 , 198, 107-12	8.5	39
30	Variation in the chemical composition of wheat straw: the role of tissue ratio and composition. <i>Biotechnology for Biofuels</i> , 2014 , 7, 121	7.8	39
29	Simultaneous saccharification and fermentation of steam exploded duckweed: Improvement of the ethanol yield by increasing yeast titre. <i>Bioresource Technology</i> , 2015 , 194, 263-9	11	35
28	Identification of furfural resistant strains of <i>Saccharomyces cerevisiae</i> and <i>Saccharomyces paradoxus</i> from a collection of environmental and industrial isolates. <i>Biotechnology for Biofuels</i> , 2015 , 8, 33	7.8	35

27	Comparison of saccharification and fermentation of steam exploded rice straw and rice husk. <i>Biotechnology for Biofuels</i> , 2016 , 9, 193	7.8	31
26	Optimising conditions for bioethanol production from rice husk and rice straw: effects of pre-treatment on liquor composition and fermentation inhibitors. <i>Biotechnology for Biofuels</i> , 2018 , 11, 62	7.8	29
25	Steam explosion of oilseed rape straw: establishing key determinants of saccharification efficiency. <i>Bioresource Technology</i> , 2014 , 162, 175-83	11	29
24	Enzymatic saccharification of duckweed (<i>Lemna minor</i>) biomass without thermophysical pretreatment. <i>Biomass and Bioenergy</i> , 2012 , 47, 354-361	5.3	28
23	Bionanocomposite films based on polysaccharides from banana peels. <i>International Journal of Biological Macromolecules</i> , 2017 , 101, 1-8	7.9	27
22	Effect of steam explosion on waste copier paper alone and in a mixed lignocellulosic substrate on saccharification and fermentation. <i>Bioresource Technology</i> , 2015 , 187, 136-143	11	27
21	Recovery of Polyphenols from Brewer's Spent Grains. <i>Antioxidants</i> , 2019 , 8,	7.1	26
20	Durum wheat particle size affects starch and protein digestion in vitro. <i>European Journal of Nutrition</i> , 2018 , 57, 319-325	5.2	26
19	Metabolic diversion of the phenylpropanoid pathway causes cell wall and morphological changes in transgenic tobacco stems. <i>Planta</i> , 2007 , 225, 1165-78	4.7	23
18	Steam explosion pretreatment and enzymatic saccharification of duckweed (<i>Lemna minor</i>) biomass. <i>Biomass and Bioenergy</i> , 2015 , 72, 206-215	5.3	19
17	Ethanol from a biorefinery waste stream: Saccharification of amylase, protease and xylanase treated wheat bran. <i>Food Chemistry</i> , 2016 , 198, 125-31	8.5	19
16	Release of cell wall phenolic esters during hydrothermal pretreatment of rice husk and rice straw. <i>Biotechnology for Biofuels</i> , 2018 , 11, 162	7.8	18
15	Biorefining of waste paper biomass: increasing the concentration of glucose by optimising enzymatic hydrolysis. <i>Applied Biochemistry and Biotechnology</i> , 2014 , 172, 3621-34	3.2	16
14	Bioethanol production from spent mushroom compost derived from chaff of millet and sorghum. <i>Biotechnology for Biofuels</i> , 2017 , 10, 195	7.8	16
13	Effect of hydrothermal pre-treatment on duckweed (<i>Landoltia punctata</i>) biomass for simultaneous saccharification and fermentation process. <i>Biomass and Bioenergy</i> , 2019 , 127, 105259	5.3	12
12	Methodology for enabling high-throughput simultaneous saccharification and fermentation screening of yeast using solid biomass as a substrate. <i>Biotechnology for Biofuels</i> , 2015 , 8, 2	7.8	12
11	Yeast diversity in relation to the production of fuels and chemicals. <i>Scientific Reports</i> , 2017 , 7, 14259	4.9	11
10	Enzymatic and chemical treatment limits on the controlled solubilization of brewers' spent grain. <i>Journal of Agricultural and Food Chemistry</i> , 2011 , 59, 11019-25	5.7	11

9	Chemical characterization of hydrothermally pretreated and enzyme-digested wheat straw: An evaluation of recalcitrance. <i>Food Chemistry</i> , 2016 , 198, 132-40	8.5	10
8	Changes in the composition of the main polysaccharide groups of oil seed rape straw following steam explosion and saccharification. <i>Biomass and Bioenergy</i> , 2014 , 61, 121-130	5.3	9
7	Effect of Brassica napus cultivar on cellulosic ethanol yield. <i>Biotechnology for Biofuels</i> , 2015 , 8, 99	7.8	9
6	Impact of Hot Water and Alkaline Pre-treatments in Cellulosic Ethanol Production from Banana Pseudostem. <i>Bioenergy Research</i> , 2020 , 13, 1159-1170	3.1	6
5	Expression of a bacterial, phenylpropanoid-metabolizing enzyme in tobacco reveals essential roles of phenolic precursors in normal leaf development and growth. <i>Physiologia Plantarum</i> , 2012 , 145, 260-74	4.6	4
4	Anticholinesterase Activities of Different Solvent Extracts of Brewer's Spent Grain. <i>Foods</i> , 2021 , 10,	4.9	4
3	Variation across a wheat genetic diversity panel for saccharification of hydrothermally pretreated straw. <i>Biotechnology for Biofuels</i> , 2017 , 10, 227	7.8	2
2	Effect of Cooking and Pre-Cooking on Cell-Wall Chemistry in Relation to Firmness of Carrot Tissues 1997 , 73, 503		1
1	Feedstock selection for polymer and chemical production: feedstock-specific recalcitrance. <i>Faraday Discussions</i> , 2017 , 202, 391-402	3.6	