Merilyn Manley-Harris

List of Publications by Year
in descending order

80 papers	2,576 citations	257450 24 h-index	206112 48 g-index
81 all docs	81 docs citations	81 times ranked	3249 citing authors

#	Article	IF	Citations
1	How well do isolated lignins mimic the inhibitory behaviour of cell wall lignins during enzymatic hydrolysis of hydrothermally treated softwood?. Biomass Conversion and Biorefinery, 2023, 13, 1967-1978.	4.6	2
2	Sexual reproduction of seagrass <i>Zostera muelleri</i> in Aotearoa New Zealand: are we missing a restoration opportunity?. New Zealand Journal of Marine and Freshwater Research, 2023, 57, 447-453.	2.0	2
3	Composition and potential as a prebiotic functional food of a Giant Willow Aphid (Tuberolachnus) Tj ETQq1 1 0.784314 rgBT /Overlock	8.2	10
4	The use of radar and optical satellite imagery combined with advanced machine learning and metaheuristic optimization techniques to detect and quantify above ground biomass of intertidal seagrass in a New Zealand estuary. International Journal of Remote Sensing, 2021, 42, 4712-4738.	2.9	23
5	Detecting Multi-Decadal Changes in Seagrass Cover in Tauranga Harbour, New Zealand, Using Landsat Imagery and Boosting Ensemble Classification Techniques. ISPRS International Journal of Geo-Information, 2021, 10, 371.	2.9	18
6	Nectary photosynthesis contributes to the production of mÄnuka (<i>Leptospermum scoparium</i>) floral nectar. New Phytologist, 2021, 232, 1703-1717.	7.3	5
7	Fine sediment effects on seagrasses: A global review, quantitative synthesis and multi-stressor model. Marine Environmental Research, 2021, 171, 105480.	2.5	5
8	Interaction of substrate muddiness and low irradiance on seagrass: A mesocosm study of Zostera muelleri. Aquatic Botany, 2021, 175, 103435.	1.6	5
9	Effects of Fine Sediment on Seagrass Meadows: A Case Study of Zostera muelleri in PÄuatahanui Inlet, New Zealand. Journal of Marine Science and Engineering, 2020, 8, 645.	2.6	12
10	A Comparative Assessment of Ensemble-Based Machine Learning and Maximum Likelihood Methods for Mapping Seagrass Using Sentinel-2 Imagery in Tauranga Harbor, New Zealand. Remote Sensing, 2020, 12, 355.	4.0	60
11	The analysis of vitamin B12 in milk and infant formula: A review. International Dairy Journal, 2019, 99, 104543.	3.0	7
12	Floral nectar of wild mÄnuka (Leptospermum scoparium) varies more among plants than among sites. New Zealand Journal of Crop and Horticultural Science, 2019, 47, 282-296.	1.3	11
13	Nanostructure of Gasification Charcoal (Biochar). Environmental Science & Technology, 2019, 53, 3538-3546.	10.0	20
14	Kinetics of conversion of dihydroxyacetone to methylglyoxal in New Zealand mÄnuka honey: Part V â€“ The rate determining step. Food Chemistry, 2019, 276, 636-642.	8.2	6
15	Influence of genotype, floral stage, and water stress on floral nectar yield and composition of mÄnuka (Leptospermum scoparium). Annals of Botany, 2018, 121, 501-512.	2.9	30
16	Magnetic immobilization of bacteria using iron oxide nanoparticles. Biotechnology Letters, 2018, 40, 237-248.	2.2	40
17	A standard, analytical protocol for the quantitation of non-structural carbohydrates in seagrasses that permits inter-laboratory comparison. Aquatic Botany, 2018, 151, 71-79.	1.6	18
18	High Level of Menaquinone-7 Production by Milking Menaquinone-7 with Biocompatible Organic Solvents. Current Pharmaceutical Biotechnology, 2018, 19, 232-239.	1.6	3

#	ARTICLE	IF	CITATIONS
19	Determination of Menaquinone-7 by a Simplified Reversed Phase- HPLC Method. Current Pharmaceutical Biotechnology, 2018, 19, 664-673.	1.6	10
20	Iron oxide nanoparticles in modern microbiology and biotechnology. Critical Reviews in Microbiology, 2017, 43, 493-507.	6.1	118
21	Kinetics of conversion of dihydroxyacetone to methylglyoxal in New Zealand mÄnuka honey: Part IV â€" Formation of HMF. Food Chemistry, 2017, 232, 648-655.	8.2	16
22	The effect of iron oxide nanoparticles on Bacillus subtilis biofilm, growth and viability. Process Biochemistry, 2017, 62, 231-240.	3.7	59
23	Impact of 3â€"Aminopropyltriethoxysilane-Coated Iron Oxide Nanoparticles on Menaquinone-7 Production Using B. subtilis. Nanomaterials, 2017, 7, 350.	4.1	22
24	Reviewing, Combining, and Updating the Models for the Nanostructure of Non-Graphitizing Carbons Produced from Oxygen-Containing Precursors. Energy & Fuels, 2016, 30, 7811-7826.	5.1	63
25	Kinetics of conversion of dihydroxyacetone to methylglyoxal in New Zealand mÄnuka honey: Part I â€" Honey systems. Food Chemistry, 2016, 202, 484-491.	8.2	40
26	Kinetics of the conversion of dihydroxyacetone to methylglyoxal in New Zealand mÄnuka honey: Part II â€" Model systems. Food Chemistry, 2016, 202, 492-499.	8.2	17
27	Kinetics of conversion of dihydroxyacetone to methylglyoxal in New Zealand mÄnuka honey: Part III â€" A model to simulate the conversion. Food Chemistry, 2016, 202, 500-506.	8.2	8
28	Changes in hydrogen bonding in protein plasticized with triethylene glycol. Journal of Applied Polymer Science, 2015, 132, .	2.6	5
29	A comparison of the charring and carbonisation of oxygen-rich precursors with the thermal reduction of graphene oxide. Philosophical Magazine, 2015, 95, 4054-4077.	1.6	16
30	Isolation of maltol glucoside from the floral nectar of New Zealand mÄnuka (Leptospermum) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 302 T	8.2	10
31	Effect of high pressure processing on the conversion of dihydroxyacetone to methylglyoxal in New Zealand mÄnuka (Leptospermum scoparium) honey and models thereof. Food Chemistry, 2014, 153, 134-139.	8.2	10
32	Sorption of selected veterinary antibiotics onto dairy farming soils of contrasting nature. Science of the Total Environment, 2014, 472, 695-703.	8.0	69
33	Regional, Annual, and Individual Variations in the Dihydroxyacetone Content of the Nectar of MaÌ…nuka (<i>Leptospermum scoparium</i>) in New Zealand. Journal of Agricultural and Food Chemistry, 2014, 62, 10332-10340.	5.2	38
34	The Unique Manuka Effect: Why New Zealand Manuka Honey Fails the AOAC 998.12 C-4 Sugar Method. Journal of Agricultural and Food Chemistry, 2014, 62, 2615-2622.	5.2	22
35	Analysis of volatile compounds in New Zealand unifloral honeys by SPMEâ€"GCâ€"MS and chemometric-based classification of floral source. Journal of Food Measurement and Characterization, 2014, 8, 81-91.	3.2	15
36	Analysis of the flavonoid component of bioactive New Zealand mÄnuka (Leptospermum scoparium) honey and the isolation, characterisation and synthesis of an unusual pyrrole. Food Chemistry, 2013, 141, 1772-1781.	8.2	68

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37	Co-contaminants and factors affecting the sorption behaviour of two sulfonamides in pasture soils. Environmental Pollution, 2013, 180, 165-172.	7.5	65
38	Crystal Structure Models for the Aldaramide Units of Poly(pentaramides). Journal of Carbohydrate Chemistry, 2013, 32, 86-103.	1.1	0
39	Analysis of nucleosides and nucleotides in infant formula by liquid chromatographyâ€“tandem mass spectrometry. Analytical and Bioanalytical Chemistry, 2013, 405, 5311-5319.	3.7	22
40	Carbonisation of biomass-derived chars and the thermal reduction of a graphene oxide sample studied using Raman spectroscopy. Carbon, 2013, 59, 383-405.	10.3	144
41	Pentaric Acids and Derivatives from Nitric Acidâ€“Oxidized Pentoses. Journal of Carbohydrate Chemistry, 2013, 32, 68-85.	1.1	7
42	Development of an HPLC method to analyze four veterinary antibiotics in soils and aqueous media and validation through fate studies. Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering, 2012, 47, 2120-2132.	1.7	10
43	Adult/Pediatric Nutritional Formula by Liquid Chromatography: First Action 2011.20. Journal of AOAC INTERNATIONAL, 2012, 95, 599-602.	1.5	5
44	Classification and discrimination of automotive glass using LA-ICP-MS. Journal of Analytical Atomic Spectrometry, 2012, 27, 1413.	3.0	24
45	Determination of total potentially available nucleosides in bovine, caprine, and ovine milk. International Dairy Journal, 2012, 24, 40-43.	3.0	18
46	Understanding the Degree of Condensation of Phenolic and Etherified C-9 Units of in Situ Lignins. Journal of Agricultural and Food Chemistry, 2011, 59, 12514-12519.	5.2	12
47	Determination of total potentially available nucleosides in bovine milk. International Dairy Journal, 2011, 21, 34-41.	3.0	13
48	A Liquid Chromatographic Method for Routine Analysis of 5-Mononucleotides in Pediatric Formulas. Journal of AOAC INTERNATIONAL, 2010, 93, 966-973.	1.5	18
49	Retention capacity of biochar-amended New Zealand dairy farm soil for an estrogenic steroid hormone and its primary metabolite. Soil Research, 2010, 48, 648.	1.1	55
50	Effect of abomasal prebiotic supplementation on sheep faecal microbiota. New Zealand Journal of Agricultural Research, 2010, 53, 99-108.	1.6	1
51	The Structures and Hydrogen Bonding Networks in Crystals of Alkylenediammonium Salts of Galactaric Acid. Journal of Carbohydrate Chemistry, 2009, 28, 107-123.	1.1	4
52	Quantitative chemical indicators to assess the gradation of compression wood. Holzforschung, 2009, 63, 431-439.	1.9	56
53	The origin of methylglyoxal in New Zealand manuka (Leptospermum scoparium) honey. Carbohydrate Research, 2009, 344, 1050-1053.	2.3	227
54	Synthesis of Poly(galactaramides) from Alkylene- and Substituted Alkylenediammonium Galactarates. Journal of Carbohydrate Chemistry, 2009, 28, 348-368.	1.1	11

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55	Isolation by HPLC and characterisation of the bioactive fraction of New Zealand manuka (Leptospermum scoparium) honey. Carbohydrate Research, 2008, 343, 651-659.	2.3	237
56	An NMR Study of the Equilibration of<scp>d</scp>â€Glucaric Acid with Lactone Forms in Aqueous Acid Solutions. Journal of Carbohydrate Chemistry, 2007, 26, 455-467.	1.1	22
57	Do All Carbonized Charcoals Have the Same Chemical Structure? 2. A Model of the Chemical Structure of Carbonized Charcoal. Industrial & Engineering Chemistry Research, 2007, 46, 5954-5967.	3.7	232
58	Do All Carbonized Charcoals Have the Same Chemical Structure? 1. Implications of Thermogravimetryâ^'Mass Spectrometry Measurements. Industrial & Engineering Chemistry Research, 2007, 46, 5943-5953.	3.7	63
59	Esterification of select polyols with d-glucaric acid as model reactions for esterification of starch. Carbohydrate Research, 2006, 341, 2688-2693.	2.3	3
60	Laundering Protocols for Chlorpyrifos Residue Removal from Pest Control Operators' Overalls. Bulletin of Environmental Contamination and Toxicology, 2005, 75, 94-101.	2.7	5
61	On the nature of non-peroxide antibacterial activity in New Zealand manuka honey. Food Chemistry, 2004, 84, 145-147.	8.2	62
62	Efficient routes to epimerically-pure side-chain derivatives of lanosterolâ˜†. Steroids, 2004, 69, 227-233.	1.8	7
63	A low-toxicity method for the separation of lanosterol and dihydrolanosterol from commercial mixtures. Steroids, 2004, 69, 697-700.	1.8	9
64	Use of natural abundance15N DEPT NMR to investigate curing of urea-formaldehyde resin in the presence of wood fibers. Magnetic Resonance in Chemistry, 2003, 41, 622-625.	1.9	4
65	The Structure Of Hexaâ€Oâ€acetylâ€Î±â€dâ€fructofuranoseâ€Î²â€dâ€fructofuranose 1,2â€²:2,6â€²â€Dianhydride. Journal of Carbohydrate Chemistry, 2003, 22, 1-8.	1.1	7
66	Title is missing!. Journal of Materials Science, 2002, 37, 493-504.	3.7	57
67	Kinetics of Formation of Di-d-fructose Dianhydrides during Thermal Treatment of Inulin. Journal of Agricultural and Food Chemistry, 2000, 48, 1823-1837.	5.2	46
68	A preliminary study of the use of larch arabinogalactan in aqueous two-phase systems. Carbohydrate Polymers, 1998, 35, 7-12.	10.2	17
69	Dihexulose Dianhydrides. Advances in Carbohydrate Chemistry and Biochemistry, 1997, , 207-266.	0.9	30
70	Structural studies by NMR spectroscopy of the major oligomers from alkali-degraded arabinoigalactan from Larix occidentalis. Carbohydrate Polymers, 1997, 34, 243-249.	10.2	9
71	Di-d-fructose dianhydrides and related oligomers from thermal treatments of inulin and sucrose. Carbohydrate Research, 1996, 287, 183-202.	2.3	59
72	Stereoselective thermal transfer of fructose from sucrose to cyclodextrins. Carbohydrate Research, 1995, 268, 209-217.	2.3	5

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73	Thermal transfer of fructosyl residues to amylopectin and soluble starch during the melt thermolysis of sucrose. Carbohydrate Research, 1995, 278, 363-366.	2.3	1
74	Di-d-fructose dianhydrides from the pyrolysis of inulin. Carbohydrate Research, 1994, 265, 31-39.	2.3	24
75	Anhydro sugars and oligosaccharides from the thermolysis of sucrose. Carbohydrate Research, 1994, 254, 195-202.	2.3	9
76	A novel fructoglucan from the thermal polymerization of sucrose. Carbohydrate Research, 1993, 240, 183-196.	2.3	31
77	Mass spectra of some di-d-fructose dianhydride derivatives. Carbohydrate Research, 1992, 226, 327-330.	2.3	11
78	Formation of trisaccharides (kestoses) by pyrolysis of sucrose. Carbohydrate Research, 1991, 219, 101-113.	2.3	24
79	Studies of the alkaline degradation of mono-o-methylsucroses. Carbohydrate Research, 1981, 90, 27-40.	2.3	7
80	Partial n.m.r. assignment of methyl groups in O-methylsucroses. Carbohydrate Research, 1980, 82, 356-361.	2.3	4