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	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
2	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
3	The origin of methylglyoxal in New Zealand manuka (Leptospermum scoparium) honey. Carbohydrate Research, 2009, 344, 1050-1053.	2.3	227
4	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
5	Iron oxide nanoparticles in modern microbiology and biotechnology. Critical Reviews in Microbiology, 2017, 43, 493-507.	6.1	118
6	Sorption of selected veterinary antibiotics onto dairy farming soils of contrasting nature. Science of the Total Environment, 2014, 472, 695-703.	8.0	69
7	Analysis of the flavonoid component of bioactive New Zealand mÄ•nuka (Leptospermum scoparium) honey and the isolation, characterisation and synthesis of an unusual pyrrole. Food Chemistry, 2013, 141, 1772-1781.	8.2	68
8	Co-contaminants and factors affecting the sorption behaviour of two sulfonamides in pasture soils. Environmental Pollution, 2013, 180, 165-172.	7.5	65
9	Do All Carbonized Charcoals Have the Same Chemical Structure? 1. Implications of Thermogravimetryâˆ'Mass Spectrometry Measurements. Industrial & Engineering Chemistry Research, 2007, 46, 5943-5953.	3.7	63
10	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
11	On the nature of non-peroxide antibacterial activity in New Zealand manuka honey. Food Chemistry, 2004, 84, 145-147.	8.2	62
12	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
13	Di-d-fructose dianhydrides and related oligomers from thermal treatments of inulin and sucrose. Carbohydrate Research, 1996, 287, 183-202.	2.3	59
14	The effect of iron oxide nanoparticles on Bacillus subtilis biofilm, growth and viability. Process Biochemistry, 2017, 62, 231-240.	3.7	59
15	Title is missing!. Journal of Materials Science, 2002, 37, 493-504.	3.7	57
16	Quantitative chemical indicators to assess the gradation of compression wood. Holzforschung, 2009, 63, 431-439.	1.9	56
17	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
18	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

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19	Kinetics of conversion of dihydroxyacetone to methylglyoxal in New Zealand mÄ•nuka honey: Part I â€“ Honey systems. Food Chemistry, 2016, 202, 484-491.	8.2	40
20	Magnetic immobilization of bacteria using iron oxide nanoparticles. Biotechnology Letters, 2018, 40, 237-248.	2.2	40
21	Regional, Annual, and Individual Variations in the Dihydroxyacetone Content of the Nectar of Maì…nuka (Leptospermum scoparium) in New Zealand. Journal of Agricultural and Food Chemistry, 2014, 62, 10332-10340.	5.2	38
22	A novel fructoglucan from the thermal polymerization of sucrose. Carbohydrate Research, 1993, 240, 183-196.	2.3	31
23	Dihexulose Dianhydrides. Advances in Carbohydrate Chemistry and Biochemistry, 1997, , 207-266.	0.9	30
24	Influence of genotype, floral stage, and water stress on floral nectar yield and composition of mÄ•nuka (Leptospermum scoparium). Annals of Botany, 2018, 121, 501-512.	2.9	30
25	Formation of trisaccharides (kestoses) by pyrolysis of sucrose. Carbohydrate Research, 1991, 219, 101-113.	2.3	24
26	Di-d-fructose dianhydrides from the pyrolysis of inulin. Carbohydrate Research, 1994, 265, 31-39.	2.3	24
27	Classification and discrimination of automotive glass using LA-ICP-MS. Journal of Analytical Atomic Spectrometry, 2012, 27, 1413.	3.0	24
28	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
29	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
30	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
31	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
32	Impact of 3â€“Aminopropyltriethoxysilane-Coated Iron Oxide Nanoparticles on Menaquinone-7 Production Using B. subtilis. Nanomaterials, 2017, 7, 350.	4.1	22
33	Nanostructure of Gasification Charcoal (Biochar). Environmental Science & Technology, 2019, 53, 3538-3546.	10.0	20
34	A Liquid Chromatographic Method for Routine Analysis of 5-Mononucleotides in Pediatric Formulas. Journal of AOAC INTERNATIONAL, 2010, 93, 966-973.	1.5	18
35	Determination of total potentially available nucleosides in bovine, caprine, and ovine milk. International Dairy Journal, 2012, 24, 40-43.	3.0	18
36	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

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37	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
38	A preliminary study of the use of larch arabinogalactan in aqueous two-phase systems. Carbohydrate Polymers, 1998, 35, 7-12.	10.2	17
39	Kinetics of the conversion of dihydroxyacetone to methylglyoxal in New Zealand mÃ•nuka honey: Part II â€“ Model systems. Food Chemistry, 2016, 202, 492-499.	8.2	17
40	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
41	Kinetics of conversion of dihydroxyacetone to methylglyoxal in New Zealand mÃ•nuka honey: Part IV â€“ Formation of HMF. Food Chemistry, 2017, 232, 648-655.	8.2	16
42	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
43	Determination of total potentially available nucleosides in bovine milk. International Dairy Journal, 2011, 21, 34-41.	3.0	13
44	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
45	Effects of Fine Sediment on Seagrass Meadows: A Case Study of Zostera muelleri in PÃ•uatahanui Inlet, New Zealand. Journal of Marine Science and Engineering, 2020, 8, 645.	2.6	12
46	Mass spectra of some di-d-fructose dianhydride derivatives. Carbohydrate Research, 1992, 226, 327-330.	2.3	11
47	Synthesis of Poly(galactaramides) from Alkylene- and Substituted Alkylenediammonium Galactarates. Journal of Carbohydrate Chemistry, 2009, 28, 348-368.	1.1	11
48	Floral nectar of wild mÃ•nuka (Leptospermum scoparium) varies more among plants than among sites. New Zealand Journal of Crop and Horticultural Science, 2019, 47, 282-296.	1.3	11
49	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
50	Effect of high pressure processing on the conversion of dihydroxyacetone to methylglyoxal in New Zealand mÃ•nuka (Leptospermum scoparium) honey and models thereof. Food Chemistry, 2014, 153, 134-139.	8.2	10
51	Isolation of maltol glucoside from the floral nectar of New Zealand mÃ•nuka (Leptospermum) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf	8.2	10
52	Composition and potential as a prebiotic functional food of a Giant Willow Aphid (Tuberolachnus) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50	8.2	10
53	Determination of Menaquinone-7 by a Simplified Reversed Phase- HPLC Method. Current Pharmaceutical Biotechnology, 2018, 19, 664-673.	1.6	10
54	Anhydro sugars and oligosaccharides from the thermolysis of sucrose. Carbohydrate Research, 1994, 254, 195-202.	2.3	9

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55	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
56	A low-toxicity method for the separation of lanosterol and dihydrolanosterol from commercial mixtures. Steroids, 2004, 69, 697-700.	1.8	9
57	Kinetics of conversion of dihydroxyacetone to methylglyoxal in New Zealand mÄ•nuka honey: Part III â€“ A model to simulate the conversion. Food Chemistry, 2016, 202, 500-506.	8.2	8
58	Studies of the alkaline degradation of mono-o-methylsucroses. Carbohydrate Research, 1981, 90, 27-40.	2.3	7
59	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
60	Efficient routes to epimerically-pure side-chain derivatives of lanosterolâ˜†. Steroids, 2004, 69, 227-233.	1.8	7
61	Pentaric Acids and Derivatives from Nitric Acidâ€“Oxidized Pentoses. Journal of Carbohydrate Chemistry, 2013, 32, 68-85.	1.1	7
62	The analysis of vitamin B12 in milk and infant formula: A review. International Dairy Journal, 2019, 99, 104543.	3.0	7
63	Kinetics of conversion of dihydroxyacetone to methylglyoxal in New Zealand mÄ•nuka honey: Part V â€“ The rate determining step. Food Chemistry, 2019, 276, 636-642.	8.2	6
64	Stereoselective thermal transfer of fructose from sucrose to cyclodextrins. Carbohydrate Research, 1995, 268, 209-217.	2.3	5
65	Laundering Protocols for Chlorpyrifos Residue Removal from Pest Control Operators' Overalls. Bulletin of Environmental Contamination and Toxicology, 2005, 75, 94-101.	2.7	5
66	Adult/Pediatric Nutritional Formula by Liquid Chromatography: First Action 2011.20. Journal of AOAC INTERNATIONAL, 2012, 95, 599-602.	1.5	5
67	Changes in hydrogen bonding in protein plasticized with triethylene glycol. Journal of Applied Polymer Science, 2015, 132, .	2.6	5
68	Nectary photosynthesis contributes to the production of mÄ•nuka (Leptospermum scoparium) floral nectar. New Phytologist, 2021, 232, 1703-1717.	7.3	5
69	Fine sediment effects on seagrasses: A global review, quantitative synthesis and multi-stressor model. Marine Environmental Research, 2021, 171, 105480.	2.5	5
70	Interaction of substrate muddiness and low irradiance on seagrass: A mesocosm study of Zostera muelleri. Aquatic Botany, 2021, 175, 103435.	1.6	5
71	Partial n.m.r. assignment of methyl groups in O-methylsucroses. Carbohydrate Research, 1980, 82, 356-361.	2.3	4
72	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

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73	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
74	Esterification of select polyols with d-glucaric acid as model reactions for esterification of starch. Carbohydrate Research, 2006, 341, 2688-2693.	2.3	3
75	High Level of Menaquinone-7 Production by Milking Menaquinone-7 with Biocompatible Organic Solvents. Current Pharmaceutical Biotechnology, 2018, 19, 232-239.	1.6	3
76	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
77	Sexual reproduction of seagrass Zostera muelleri 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
78	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
79	Effect of abomasal prebiotic supplementation on sheep faecal microbiota. New Zealand Journal of Agricultural Research, 2010, 53, 99-108.	1.6	1
80	Crystal Structure Models for the Aldaramide Units of Poly(pentaramides). Journal of Carbohydrate Chemistry, 2013, 32, 86-103.	1.1	0