

# Andrea C Ruthes

## 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.

42 papers	1,110 citations	20 h-index	33 g-index
42 ext. papers	1,315 ext. citations	7.9 avg, IF	4.53 L-index

#	Paper	IF	Citations
42	D-glucans from edible mushrooms: a review on the extraction, purification and chemical characterization approaches. <i>Carbohydrate Polymers</i> , <b>2015</b> , 117, 753-761	10.3	129
41	Mushroom heteropolysaccharides: A review on their sources, structure and biological effects. <i>Carbohydrate Polymers</i> , <b>2016</b> , 136, 358-75	10.3	105
40	Polysaccharides from <i>Agaricus bisporus</i> and <i>Agaricus brasiliensis</i> show similarities in their structures and their immunomodulatory effects on human monocytic THP-1 cells. <i>BMC Complementary and Alternative Medicine</i> , <b>2011</b> , 11, 58	4.7	76
39	<i>Lactarius rufus</i> (1-3), (1-6)-D-glucans: structure, antinociceptive and anti-inflammatory effects. <i>Carbohydrate Polymers</i> , <b>2013</b> , 94, 129-36	10.3	66
38	Exopolysaccharides, proteins and lipids in <i>Pleurotus pulmonarius</i> submerged culture using different carbon sources. <i>Carbohydrate Polymers</i> , <b>2012</b> , 87, 368-376	10.3	54
37	Chemical and biological properties of a highly branched D-glucan from edible mushroom <i>Pleurotus sajor-caju</i> . <i>Carbohydrate Polymers</i> , <b>2012</b> , 90, 814-9	10.3	50
36	Exopolysaccharide produced by <i>Pleurotus sajor-caju</i> : its chemical structure and anti-inflammatory activity. <i>International Journal of Biological Macromolecules</i> , <b>2015</b> , 75, 90-6	7.9	48
35	Fucomannogalactan and glucan from mushroom <i>Amanita muscaria</i> : structure and inflammatory pain inhibition. <i>Carbohydrate Polymers</i> , <b>2013</b> , 98, 761-9	10.3	45
34	<i>Agaricus bisporus</i> fucogalactan: structural characterization and pharmacological approaches. <i>Carbohydrate Polymers</i> , <b>2013</b> , 92, 184-91	10.3	44
33	Structural characterization and protective effect against murine sepsis of fucogalactans from <i>Agaricus bisporus</i> and <i>Lactarius rufus</i> . <i>Carbohydrate Polymers</i> , <b>2012</b> , 87, 1620-1627	10.3	40
32	<i>Agaricus bisporus</i> and its by-products as a source of valuable extracts and bioactive compounds. <i>Food Chemistry</i> , <b>2019</b> , 292, 176-187	8.5	39
31	Structural characterization and anti-inflammatory activity of a linear D-glucan isolated from <i>Pleurotus sajor-caju</i> . <i>Carbohydrate Polymers</i> , <b>2014</b> , 113, 588-96	10.3	37
30	Sequential fractionation of feruloylated hemicelluloses and oligosaccharides from wheat bran using subcritical water and xylanolytic enzymes. <i>Green Chemistry</i> , <b>2017</b> , 19, 1919-1931	10	31
29	In vitro fermentation of <i>Cookeina speciosa</i> glucans stimulates the growth of the butyrogenic <i>Clostridium</i> cluster XIVa in a targeted way. <i>Carbohydrate Polymers</i> , <b>2018</b> , 183, 219-229	10.3	31
28	Pectins from the pulp of gabioba ( <i>Campomanesia xanthocarpa</i> Berg): Structural characterization and rheological behavior. <i>Carbohydrate Polymers</i> , <b>2019</b> , 214, 250-258	10.3	30
27	Cytotoxic effect of <i>Agaricus bisporus</i> and <i>Lactarius rufus</i> D-glucans on HepG2 cells. <i>International Journal of Biological Macromolecules</i> , <b>2013</b> , 58, 95-103	7.9	25
26	Feruloylated Arabinoxylans from Wheat Bran: Optimization of Extraction Process and Validation at Pilot Scale. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2019</b> , 7, 13167-13177	8.3	23

25	Focused Metabolism of $\beta$ -glucans by the Soil Species <i>Chitinophaga pinensis</i> . <i>Applied and Environmental Microbiology</i> , <b>2019</b> , 85,	4.8	23
24	Structure and antinociceptive effects of $\beta$ -D-glucans from <i>Cookeina tricholoma</i> . <i>Carbohydrate Polymers</i> , <b>2016</b> , 141, 220-8	10.3	21
23	Water-soluble polysaccharides from <i>Pleurotus ostreatus</i> var. <i>florida</i> mycelial biomass. <i>International Journal of Biological Macromolecules</i> , <b>2014</b> , 70, 354-9	7.9	21
22	Structural characterization of the uncommon polysaccharides obtained from <i>Peltigera canina</i> photobiont <i>Nostoc muscorum</i> . <i>Carbohydrate Polymers</i> , <b>2010</b> , 81, 29-34	10.3	19
21	Cytotoxic effect of a mannogalactoglucan extracted from <i>Agaricus bisporus</i> on HepG2 cells. <i>Carbohydrate Polymers</i> , <b>2017</b> , 170, 33-42	10.3	16
20	Extraction, purification and structural characterization of a galactoglucomannan from the gabioba fruit ( <i>Campomanesia xanthocarpa</i> Berg), Myrtaceae family. <i>Carbohydrate Polymers</i> , <b>2017</b> , 174, 887-895	10.3	16
19	The origin of mannans found in submerged culture of basidiomycetes. <i>Carbohydrate Polymers</i> , <b>2010</b> , 79, 1052-1056	10.3	15
18	Polysaccharide glucomannan isolated from <i>Heterodermia obscurata</i> attenuates acute and chronic pain in mice. <i>Carbohydrate Polymers</i> , <b>2013</b> , 92, 2058-64	10.3	13
17	Chemical structure and selected biological properties of a glucomannan from the lichenized fungus <i>Heterodermia obscurata</i> . <i>Phytochemistry</i> , <b>2010</b> , 71, 2132-9	4	13
16	Chemical structure of a partially 3-O-methylated mannofucogalactan from edible mushroom <i>Grifola frondosa</i> . <i>Carbohydrate Polymers</i> , <b>2018</b> , 187, 110-117	10.3	10
15	Chemical characterization and wound healing property of a $\beta$ -D-glucan from edible mushroom <i>Piptoporus betulinus</i> . <i>International Journal of Biological Macromolecules</i> , <b>2018</b> , 117, 1361-1366	7.9	10
14	Cytotoxic effect of crude and purified pectins from <i>Campomanesia xanthocarpa</i> Berg on human glioblastoma cells. <i>Carbohydrate Polymers</i> , <b>2019</b> , 224, 115140	10.3	9
13	Partially methylated galactans containing different proportions of 3-O-methyl-galactose from <i>Pleurotus citrinopileatus</i> . <i>Carbohydrate Research</i> , <b>2018</b> , 458-459, 29-34	2.9	8
12	Polysaccharides present in cultivated <i>Teloschistes flavicans</i> symbiosis: comparison with those of the thallus. <i>Plant Physiology and Biochemistry</i> , <b>2008</b> , 46, 500-5	5.4	8
11	Prebiotic potential of mushroom d-glucans: implications of physicochemical properties and structural features. <i>Carbohydrate Polymers</i> , <b>2021</b> , 262, 117940	10.3	8
10	Comparative Recalcitrance and Extractability of Cell Wall Polysaccharides from Cereal (Wheat, Rye, and Barley) Brans Using Subcritical Water. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2020</b> , 8, 7192-7204	8.3	7
9	Enzyme synergy for the production of arabinoxyloligosaccharides from highly substituted arabinoxylan and evaluation of their prebiotic potential. <i>LWT - Food Science and Technology</i> , <b>2020</b> , 131, 109762	5.4	5
8	Dietary Fiber Hierarchical Specificity: the Missing Link for Predictable and Strong Shifts in Gut Bacterial Communities. <i>MBio</i> , <b>2021</b> , 12, e0102821	7.8	4

7	Enzymatic-assisted extraction and modification of lignocellulosic plant polysaccharides for packaging applications. <i>Journal of Applied Polymer Science</i> , <b>2016</b> , 133, n/a-n/a	2.9	4
6	Glycan analysis of <i>Fonsecaea monophora</i> from clinical and environmental origins reveals different structural profile and human antigenic response. <i>Frontiers in Cellular and Infection Microbiology</i> , <b>2014</b> , 4, 153	5.9	2
5	β(1-6)-D-glucan secreted during the optimised production of exopolysaccharides by <i>Paecilomyces variotii</i> has immunostimulatory activity. <i>Antonie Van Leeuwenhoek</i> , <b>2018</b> , 111, 981-994	2.1	2
4	Natural Polysaccharides from Mushrooms: Antinociceptive and Anti-inflammatory Properties <b>2015</b> , 2151-2178	1	
3	First Morphological and Molecular Report of on Strawberry Plants in Switzerland. <i>Plant Disease</i> , <b>2019</b> , 103, 2851-2856	1.5	1
2	The impact of management strategies on the development and status of potato cyst nematode populations in Switzerland: An overview from 1958 to present. <i>Plant Disease</i> , <b>2021</b> ,	1.5	1
1	Natural Polysaccharides from Mushrooms: Antinociceptive and Anti-inflammatory Properties <b>2014</b> , 1-25		