

Maria Matulova

List of Publications by Year in Descending Order

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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.

76
papers

1,151
citations

18
h-index

28
g-index

80
ext. papers

1,285
ext. citations

4.8
avg, IF

3.92
L-index

#	Paper	IF	Citations
76	Lactylated acidic exopolysaccharide produced by the cyanobacterium <i>Nostoc cf. linckia</i> . <i>Carbohydrate Polymers</i> , 2022 , 276, 118801	10.3	0
75	Polysaccharides in <i>Siraitia grosvenori</i> flowers and herbal tea. <i>Chemical Papers</i> , 2021 , 75, 1175-1185	1.9	
74	An efficient system for stable markerless integration of large biosynthetic gene clusters into <i>Streptomyces</i> chromosomes. <i>Applied Microbiology and Biotechnology</i> , 2021 , 105, 2123-2137	5.7	0
73	Optimizing acid hydrolysis for monosaccharide compositional analysis of <i>Nostoc cf. linckia</i> acidic exopolysaccharide. <i>Carbohydrate Research</i> , 2021 , 508, 108400	2.9	1
72	Structural features of the bioactive cyanobacterium <i>Nostoc sp.</i> exopolysaccharide. <i>International Journal of Biological Macromolecules</i> , 2020 , 164, 2284-2292	7.9	3
71	<i>Chlorella vulgaris</i> L-arabino-L-rhamno-D-galactan structure and mechanisms of its anti-inflammatory and anti-remodelling effects. <i>International Journal of Biological Macromolecules</i> , 2020 , 162, 188-198	7.9	5
70	New isolation process for bioactive food fiber from wild strawberry leaf. <i>Biochemical Engineering Journal</i> , 2020 , 161, 107639	4.2	4
69	Structural characteristics and biological effects of exopolysaccharide produced by cyanobacterium <i>Nostoc sp.</i> <i>International Journal of Biological Macromolecules</i> , 2020 , 160, 364-371	7.9	13
68	A Structural Analysis of the Angucycline-Like Antibiotic Auricin from Subsp. CCM 3239 Revealed Its High Similarity to Griseusins. <i>Antibiotics</i> , 2019 , 8,	4.9	4
67	Cloud Microorganisms, an Interesting Source of Biosurfactants 2019 ,		5
66	Extracellular biopolymers produced by freshwater cyanobacteria: a screening study. <i>Chemical Papers</i> , 2019 , 73, 771-776	1.9	7
65	Case study: monitoring of Glc4 tetrasaccharide in the urine of Pompe patients, use of MALDI-TOF MS, and ¹ H NMR. <i>Chemical Papers</i> , 2019 , 73, 701-711	1.9	3
64	The polyphenolic-polysaccharide complex of <i>Agrimonia eupatoria</i> L. as an indirect thrombin inhibitor - isolation and chemical characterization. <i>International Journal of Biological Macromolecules</i> , 2019 , 125, 124-132	7.9	16
63	Chemico-physical and pharmacodynamic properties of extracellular <i>Dictyosphaerium chlorelloides</i> biopolymer. <i>Carbohydrate Polymers</i> , 2018 , 198, 215-224	10.3	12
62	Clouds: A Transient and Stressing Habitat for Microorganisms 2017 , 215-245		9
61	Molecular diagnosis of Pompe disease using MALDI TOF/TOF and ¹ H NMR. <i>Chemical Papers</i> , 2016 , 70,	1.9	3
60	Polyphenolic-polysaccharide conjugates of <i>Sanguisorba officinalis</i> L. with anticoagulant activity mediated mainly by heparin cofactor II. <i>International Journal of Biological Macromolecules</i> , 2016 , 93, 1019-1029 ²⁰	7.9	20

59	Comparative ESI FT-MS and MALDI-TOF structural analyses of representative human N-linked glycans. <i>Chemical Papers</i> , 2015 , 69,	1.9	4
58	Echinacea complex--chemical view and anti-asthmatic profile. <i>Journal of Ethnopharmacology</i> , 2015 , 175, 163-71	5	15
57	Coffea arabica instant coffee--chemical view and immunomodulating properties. <i>Carbohydrate Polymers</i> , 2014 , 103, 418-26	10.3	20
56	Biotransformation of various saccharides and production of exopolymeric substances by cloud-borne Bacillus sp. 3B6. <i>Environmental Science & Technology</i> , 2014 , 48, 14238-47	10.3	16
55	Effects of extraction condition on structural features and anticoagulant activity of F. vesca L. conjugates. <i>Carbohydrate Polymers</i> , 2013 , 92, 741-50	10.3	37
54	An arabino(glucurono)xylan isolated from immunomodulatory active hemicellulose fraction of Salvia officinalis L. <i>International Journal of Biological Macromolecules</i> , 2013 , 59, 396-401	7.9	13
53	Molecular heterogeneity of arabinogalactan-protein from Coffea arabica instant coffee. <i>International Journal of Biological Macromolecules</i> , 2013 , 59, 402-7	7.9	3
52	Antitussive and immunomodulating activities of instant coffee arabinogalactan-protein. <i>International Journal of Biological Macromolecules</i> , 2011 , 49, 493-7	7.9	37
51	Biotransformation of methanol and formaldehyde by bacteria isolated from clouds. Comparison with radical chemistry. <i>Atmospheric Environment</i> , 2011 , 45, 6093-6102	5.3	32
50	Effect of the label of oligosaccharide acceptors on the kinetic parameters of nasturtium seed xyloglucan endotransglycosylase (XET). <i>Carbohydrate Research</i> , 2011 , 346, 357-61	2.9	8
49	NMR structural study of fructans produced by Bacillus sp. 3B6, bacterium isolated in cloud water. <i>Carbohydrate Research</i> , 2011 , 346, 501-7	2.9	40
48	Structure of arabinogalactan oligosaccharides derived from arabinogalactan-protein of Coffea arabica instant coffee powder. <i>Carbohydrate Research</i> , 2011 , 346, 1029-36	2.9	39
47	Isolation and characterization of an extracellular glucan produced by Leuconostoc garlicum PR. <i>Carbohydrate Polymers</i> , 2011 , 83, 88-93	10.3	30
46	Dietary fibre degradation and fermentation by two xylanolytic bacteria Bacteroides xylanisolvens XB1A and Roseburia intestinalis XB6B4 from the human intestine. <i>Journal of Applied Microbiology</i> , 2010 , 109, 451-460	4.7	61
45	Structural features of an arabinogalactan-protein isolated from instant coffee powder of Coffea arabica beans. <i>Carbohydrate Polymers</i> , 2010 , 80, 180-185	10.3	70
44	Production of oligosaccharides and cellobionic acid by Fibrobacter succinogenes S85 growing on sugars, cellulose and wheat straw. <i>Applied Microbiology and Biotechnology</i> , 2009 , 83, 425-33	5.7	12
43	An extracellular galactoxylomannan of acapsular Cryptococcus laurentii mutant. <i>International Journal of Biological Macromolecules</i> , 2008 , 43, 394-6	7.9	1
42	The extracellular proteoglycan produced by Rhodella grisea. <i>International Journal of Biological Macromolecules</i> , 2008 , 43, 390-3	7.9	27

41	NMR study of cellulose and wheat straw degradation by <i>Ruminococcus albus</i> 20. <i>FEBS Journal</i> , 2008 , 275, 3503-11	5.7	21
40	Cell wall mannan of human pathogen <i>Candida dubliniensis</i> . <i>Carbohydrate Polymers</i> , 2007 , 68, 191-195	10.3	10
39	Human pathogen <i>Candida dubliniensis</i> : A cell wall mannan with a high content of β 1,2-linked mannose residues. <i>Carbohydrate Polymers</i> , 2007 , 70, 89-100	10.3	14
38	Extension of the Nef reaction to C-glycosylnitromethanes. <i>Carbohydrate Research</i> , 2006 , 341, 2019-25	2.9	11
37	Oligosaccharide synthesis in <i>Fibrobacter succinogenes</i> S85 and its modulation by the substrate. <i>FEBS Journal</i> , 2005 , 272, 2416-27	5.7	18
36	Degradation of wheat straw by <i>Fibrobacter succinogenes</i> S85: a liquid- and solid-state nuclear magnetic resonance study. <i>Applied and Environmental Microbiology</i> , 2005 , 71, 1247-53	4.8	40
35	Analogues of antifungal tjipanazoles from rebeccamycin. <i>Bioorganic and Medicinal Chemistry</i> , 2004 , 12, 1955-62	3.4	4
34	Production of maltodextrin 1-phosphate by <i>Fibrobacter succinogenes</i> S85. <i>FEBS Letters</i> , 2004 , 576, 226-30	3.0	8
33	NMR studies of molybdate complexes of D-erythro-L-manno-octose and D-erythro-L-gluco-octose and their alditols. <i>Carbohydrate Research</i> , 2002 , 337, 1745-56	2.9	5
32	AN EXTRACELLULAR GALACTOGLUCOXYLOMANNAN PROTEIN FROM THE YEAST <i>Cryptococcus laurentii</i> VAR. <i>laurentii</i> . <i>Journal of Carbohydrate Chemistry</i> , 2002 , 21, 521-537	1.7	7
31	Extracellular polysaccharides of <i>Penicillium vermiculatum</i> . <i>Zeitschrift Fur Naturforschung - Section C Journal of Biosciences</i> , 2002 , 57, 452-8	1.7	14
30	Concurrent maltodextrin and cellodextrin synthesis by <i>Fibrobacter succinogenes</i> S85 as identified by 2D NMR spectroscopy. <i>FEBS Journal</i> , 2001 , 268, 3907-15		10
29	^{13}C and ^1H NMR study of cellulose metabolism by <i>Fibrobacter succinogenes</i> S85. <i>Journal of Biotechnology</i> , 2000 , 77, 37-47	3.7	17
28	Fed-batch production and simple isolation of succinoglycan from <i>Agrobacterium tumefaciens</i> . <i>Biotechnology Letters</i> , 1999 , 13, 7-10		10
27	(4-O-Methyl- α -D-glucurono)-D-xylan from <i>Rudbeckia fulgida</i> , var. <i>sullivantii</i> (Boynton et Beadle). <i>Carbohydrate Research</i> , 1998 , 308, 99-105	2.9	52
26	Succinoglycan production by <i>Agrobacterium tumefaciens</i> . <i>Journal of Bioscience and Bioengineering</i> , 1998 , 85, 398-403		24
25	Evaluation of Effect of Microwave Irradiation on Syntheses and Reactions of Some New 3-Acyl-methylchromones. <i>Molecules</i> , 1998 , 3, 120-131	4.8	10
24	Synthesis and Reactions of New 4-Oxo-4H-benzopyran-3-carboxaldehydes Containing Hydroxy Groups or 2-Oxopyran Cycles. <i>Molecules</i> , 1998 , 3, 149-158	4.8	16

23	An Acidic Heteropolysaccharide from the Flowers of <i>Malva Mauritiana</i> L.. <i>Journal of Carbohydrate Chemistry</i> , 1997 , 16, 1373-1391	1.7	5
22	Structure of Glucomannan-Protein from the Yeast <i>Cryptococcus Laurentii</i> . <i>Journal of Carbohydrate Chemistry</i> , 1997 , 16, 609-623	1.7	9
21	Conformational analysis on segments of charged polysaccharides. The case of hyaluronic acid dimer and chondrosine. <i>Computational and Theoretical Chemistry</i> , 1997 , 395-396, 437-449		8
20	Production and characterization of an exopolysaccharide from <i>Rhizobium hedysari</i> HCNT 1. <i>Biotechnology Letters</i> , 1997 , 19, 1231-1234	3	7
19	A Fructofuranan from the Roots of <i>Rudbeckia fulgida</i> , var. <i>sullivantii</i> (BOYNTON et BEADLE). <i>Collection of Czechoslovak Chemical Communications</i> , 1997 , 62, 1799-1803		5
18	Regioselective Deacetylation of Fully Acetylated Mono- and Di-Saccharides With Hydrazine Hydrate. <i>Australian Journal of Chemistry</i> , 1996 , 49, 293	1.2	17
17	A nitro sugar derivative route to 2-thioepisphorose and 2-thiosphorose and their remarkable facile epimerization. <i>Carbohydrate Research</i> , 1996 , 283, 73-80	2.9	14
16	NMR analysis of galactoglucan from <i>Pseudomonas marginalis</i> : assignment of the ¹ H and ¹³ C NMR spectra and location of succinate groups. <i>Carbohydrate Research</i> , 1996 , 283, 195-205	2.9	12
15	Furanose vs. acyclic forms of carbohydrate ligands. A multinuclear NMR spectroscopy study of the molybdate and tungstate complexes of d-glycero-l-manno-heptose. <i>Carbohydrate Research</i> , 1996 , 287, 37-48	2.9	5
14	Oxygen-derived free radical (ODFR) action on hyaluronan (HA), on two HA ester derivatives, and on the metabolism of articular chondrocytes. <i>Experimental Cell Research</i> , 1995 , 218, 79-86	4.2	54
13	Study of Substituted Formylchromones. <i>Collection of Czechoslovak Chemical Communications</i> , 1994 , 59, 1673-1681		14
12	Chemical regioselective hydrolysis of peracetylated reducing disaccharides, specifically at the anomeric centre: Intermediates for the synthesis of oligosaccharides. <i>Tetrahedron Letters</i> , 1994 , 35, 4247-4250 ⁵		
11	NMR analysis of succinoglycans from different microbial sources: partial assignment of their ¹ H and ¹³ C NMR spectra and location of the succinate and the acetate groups. <i>Carbohydrate Research</i> , 1994 , 265, 167-79	2.9	31
10	A conformational study of the Smith degradation product of the <i>Klebsiella</i> K40 capsular polysaccharide by 1D NOESY and molecular mechanics calculations. <i>Carbohydrate Research</i> , 1994 , 265, 151-9	2.9	3
9	NMR studies of molybdate complexes of d-allose, d-altrose, d-gulose, and d-idose. <i>Carbohydrate Research</i> , 1993 , 250, 203-209	2.9	12
8	Enzymic regioselective hydrolysis of peracetylated reducing disaccharides, specifically at the anomeric centre: Intermediates for the synthesis of oligosaccharides.. <i>Tetrahedron Letters</i> , 1993 , 34, 7767-7770	2	18
7	Synthesis of 2-acetyl-3-methyl-4H-1,4-benzothiazine and its derivatives. <i>Monatshefte Für Chemie</i> , 1993 , 124, 425-430	1.4	4
6	Immobilisation of beta-D-galactosidase from <i>Escherichia coli</i> on cellulose beads and its use for the synthesis of disaccharide derivatives. <i>Carbohydrate Research</i> , 1991 , 209, 83-7	2.9	13

5	Synthesis of L-Lyxose from L-Arabinitol via Photolysis of an Azido Derivative. <i>Synthesis</i> , 1991 , 1991, 209-210	6
4	Production of d-mannitol from d-aldopentoses by the yeast <i>Rhodotorula minuta</i> . <i>Folia Microbiologica</i> , 1989 , 34, 511-514	2.8 5
3	A ¹³ C-n.m.r. study of the alkaline degradation products of polysaccharides. <i>Carbohydrate Research</i> , 1986 , 152, 137-141	2.9 13
2	Partial hydrolysis of acyl 1,6-anhydro- β -D-glucopyranose. <i>Collection of Czechoslovak Chemical Communications</i> , 1984 , 49, 1780-1787	9
1	Antimicrobial effect of 4-nitrophenylhydrazones, isonicotinoylhydrazones and N-4-nitrophenylglycosylamines of D- and L-aldoses. <i>Folia Microbiologica</i> , 1979 , 24, 273-5	2.8 6