Maria Matulova

List of Publications by Year
in descending order

78 papers	1,428 citations	331259 21 h-index	414034 32 g-index
80 all docs	80 docs citations	80 times ranked	1778 citing authors

#	Article	IF	Citations
1	Structural features of an arabinogalactan-protein isolated from instant coffee powder of Coffea arabica beans. Carbohydrate Polymers, 2010, 80, 180-185.	5.1	79
2	Dietary fibre degradation and fermentation by two xylanolytic bacteria Bacteroides xylanisolvens XB1A ^T and Roseburia intestinalis XB6B4 from the human intestine. Journal of Applied Microbiology, 2010, 109, 451-460.	1.4	73
3	Oxygen-Derived Free Radical (ODFR) Action on Hyaluronan (HA), on Two HA Ester Derivatives, and on the Metabolism of Articular Chondrocytes. Experimental Cell Research, 1995, 218, 79-86.	1.2	60
4	(4-O-Methyl-Î±-d-glucurono)-d-xylan from Rudbeckia fulgida, var. sullivantii (Boynton et Beadle). Carbohydrate Research, 1998, 308, 99-105.	1.1	54
5	Degradation of Wheat Straw by Fibrobacter succinogenes S85: a Liquid- and Solid-State Nuclear Magnetic Resonance Study. Applied and Environmental Microbiology, 2005, 71, 1247-1253.	1.4	48
6	NMR structural study of fructans produced by Bacillus sp. 3B6, bacterium isolated in cloud water. Carbohydrate Research, 2011, 346, 501-507.	1.1	47
7	Structure of arabinogalactan oligosaccharides derived from arabinogalactan-protein of Coffea arabica instant coffee powder. Carbohydrate Research, 2011, 346, 1029-1036.	1.1	42
8	Effects of extraction condition on structural features and anticoagulant activity of F. vesca L. conjugates. Carbohydrate Polymers, 2013, 92, 741-750.	5.1	42
9	Antitussive and immunomodulating activities of instant coffee arabinogalactan-protein. International Journal of Biological Macromolecules, 2011, 49, 493-497.	3.6	40
10	Biotransformation of methanol and formaldehyde by bacteria isolated from clouds. Comparison with radical chemistry. Atmospheric Environment, 2011, 45, 6093-6102.	1.9	38
11	NMR analysis of succinoglycans from different microbial sources: partial assignment of their 1H and 13C NMR spectra and location of the succinate and the acetate groups. Carbohydrate Research, 1994, 265, 167-179.	1.1	36
12	Isolation and characterization of an extracellular glucan produced by Leuconostoc garlicum PR. Carbohydrate Polymers, 2011, 83, 88-93.	5.1	34
13	NMR study of cellulose and wheat straw degradation by Ruminococcusâ€ƒalbus 20. FEBS Journal, 2008, 275, 3503-3511.	2.2	29
14	The extracellular proteoglycan produced by Rhodella grisea. International Journal of Biological Macromolecules, 2008, 43, 390-393.	3.6	29
15	Succinoglycan production by Agrobacterium tumefaciens. Journal of Bioscience and Bioengineering, 1998, 85, 398-403.	0.9	27
16	Coffea arabica instant coffeeâ€"Chemical view and immunomodulating properties. Carbohydrate Polymers, 2014, 103, 418-426.	5.1	27
17	Polyphenolic-polysaccharide conjugates of Sanguisorba officinalis L. with anticoagulant activity mediated mainly by heparin cofactor II. International Journal of Biological Macromolecules, 2016, 93, 1019-1029.	3.6	25
18	The polyphenolic-polysaccharide complex of Agrimonia eupatoria L. as an indirect thrombin inhibitor - isolation and chemical characterization. International Journal of Biological Macromolecules, 2019, 125, 124-132.	3.6	23

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19	Enzymic regioselective hydrolysis of peracetylated reducing disaccharides, specifically at the anomeric centre: Intermediates for the synthesis of oligosaccharides.. Tetrahedron Letters, 1993, 34, 7767-7770.	0.7	22
20	Oligosaccharide synthesis in Fibrobacterâ€ƒsuccinogenes S85 and its modulation by the substrate. FEBS Journal, 2005, 272, 2416-2427.	2.2	22
21	Biotransformation of Various Saccharides and Production of Exopolymeric Substances by Cloud-Borne Bacillus sp. 3B6. Environmental Science & Technology, 2014, 48, 14238-14247.	4.6	22
22	Echinacea complex â€“ chemical view and anti-asthmatic profile. Journal of Ethnopharmacology, 2015, 175, 163-171.	2.0	22
23	Structural characteristics and biological effects of exopolysaccharide produced by cyanobacterium Nostoc sp. International Journal of Biological Macromolecules, 2020, 160, 364-371.	3.6	22
24	Regioselective Deacetylation of Fully Acetylated Mono- and Di-Saccharides With Hydrazine Hydrate. Australian Journal of Chemistry, 1996, 49, 293.	0.5	21
25	13C and 1H NMR study of cellulose metabolism by Fibrobacter succinogenes S85. Journal of Biotechnology, 2000, 77, 37-47.	1.9	21
26	Synthesis and Reactions of New 4-Oxo-4H-benzopyran-3-carboxaldehydes Containing Hydroxy Groups or 2-Oxopyran Cycles. Molecules, 1998, 3, 149-158.	1.7	20
27	Human pathogen Candida dubliniensis: A cell wall mannan with a high content of Î²-1,2-linked mannose residues. Carbohydrate Polymers, 2007, 70, 89-100.	5.1	18
28	Study of Substituted Formylchromones. Collection of Czechoslovak Chemical Communications, 1994, 59, 1673-1681.	1.0	17
29	A nitro sugar derivative route to 2-thioepisophorose and 2-thiosophorose and their remarkable facile epimerization. Carbohydrate Research, 1996, 283, 73-80.	1.1	17
30	Production of oligosaccharides and cellobionic acid by Fibrobacter succinogenes S85 growing on sugars, cellulose and wheat straw. Applied Microbiology and Biotechnology, 2009, 83, 425-433.	1.7	17
31	An arabino(glucurono)xylan isolated from immunomodulatory active hemicellulose fraction of Salvia officinalis L.. International Journal of Biological Macromolecules, 2013, 59, 396-401.	3.6	17
32	Chemico-physical and pharmacodynamic properties of extracellular Dictyosphaerium chlorelloides biopolymer. Carbohydrate Polymers, 2018, 198, 215-224.	5.1	17
33	A 13C-n.m.r. study of the alkaline degradation products of polysaccharides. Carbohydrate Research, 1986, 152, 137-141.	1.1	16
34	Immobilisation of Î²-d-galactosidase from Escherichia coli on cellulose beads and its use for the synthesis of disaccharide derivatives. Carbohydrate Research, 1991, 209, 83-87.	1.1	16
35	Concurrent maltodextrin and cellodextrin synthesis by Fibrobacter succinogenes S85 as identified by 2D NMR spectroscopy. FEBS Journal, 2001, 268, 3907-3915.	0.2	16
36	Chlorella vulgaris Î±-L-arabino-Î±-L-rhamno-Î±,Î²-D-galactan structure and mechanisms of its anti-inflammatory and anti-remodelling effects. International Journal of Biological Macromolecules, 2020, 162, 188-198.	3.6	16

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37	Extracellular Polysaccharides of Penicillium vermiculatum. Zeitschrift Fur Naturforschung - Section C Journal of Biosciences, 2002, 57, 452-458.	0.6	15
38	NMR studies of molybdate complexes of d-allose, d-altrose, d-gulose, and d-idose. Carbohydrate Research, 1993, 250, 203-209.	1.1	13
39	NMR analysis of galactoglucan from Pseudomonas marginalis: assignment of the 1H and 13C NMR spectra and location of succinate groups. Carbohydrate Research, 1996, 283, 195-205.	1.1	12
40	Fed-batch production and simple isolation of succinoglycan from Agrobacterium tumefaciens. Biotechnology Letters, 1999, 13, 7-10.	0.5	12
41	Extension of the Nef reaction to C-glycosylnitromethanes. Carbohydrate Research, 2006, 341, 2019-2025.	1.1	12
42	Cell wall mannan of human pathogen Candida dubliniensis. Carbohydrate Polymers, 2007, 68, 191-195.	5.1	12
43	Optimizing acid hydrolysis for monosaccharide compositional analysis of Nostoc cf. linckia acidic exopolysaccharide. Carbohydrate Research, 2021, 508, 108400.	1.1	12
44	Structure of Glucomannan-Protein from the YeastCryptococcus Laurentii. Journal of Carbohydrate Chemistry, 1997, 16, 609-623.	0.4	11
45	Production and characterization of an exopolysaccharide from Rhizobium hedysari HCNT 1. Biotechnology Letters, 1997, 19, 1231-1234.	1.1	11
46	Evaluation of Effect of Microwave Irradiation on Syntheses and Reactions of Some New 3-Acyl-methylchromones. Molecules, 1998, 3, 120-131.	1.7	11
47	Production of maltodextrin 1-Phosphate byFibrobacter succinogenesS85. FEBS Letters, 2004, 576, 226-230.	1.3	11
48	Effect of the label of oligosaccharide acceptors on the kinetic parameters of nasturtium seed xyloglucan endotransglycosylase (XET). Carbohydrate Research, 2011, 346, 357-361.	1.1	11
49	Clouds: A Transient and Stressing Habitat for Microorganisms. , 2017, , 215-245.		11
50	Extracellular biopolymers produced by freshwater cyanobacteria: a screening study. Chemical Papers, 2019, 73, 771-776.	1.0	11
51	Partial hydrolysis of acyl 1,6-anhydro-Î²-D-glucopyranose. Collection of Czechoslovak Chemical Communications, 1984, 49, 1780-1787.	1.0	10
52	Conformational analysis on segments of charged polysaccharides. The case of hyaluronic acid dimer and chondrosine. Computational and Theoretical Chemistry, 1997, 395-396, 437-449.	1.5	9
53	AN EXTRACELLULAR GALACTOGLUCOXYLOMANNAN PROTEIN FROM THE YEAST Cryptococcus laurentii VAR. laurentii. Journal of Carbohydrate Chemistry, 2002, 21, 521-537.	0.4	9
54	Synthesis of L-Lyxose from L-Arabinitol via Photolysis of an Azido Derivative. Synthesis, 1991, 1991, 209-210.	1.2	8

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55	Structural features of the bioactive cyanobacterium Nostoc sp. exopolysaccharide. International Journal of Biological Macromolecules, 2020, 164, 2284-2292.	3.6	8
56	Lactylated acidic exopolysaccharide produced by the cyanobacterium Nostoc cf. linckia. Carbohydrate Polymers, 2022, 276, 118801.	5.1	8
57	Furanose vs. acyclic forms of carbohydrate ligands. A multinuclear NMR spectroscopy study of the molybdate and tungstate complexes of d-glycero-l-manno-heptose. Carbohydrate Research, 1996, 287, 37-48.	1.1	7
58	A Structural Analysis of the Angucycline-Like Antibiotic Auricin from Streptomyces lavendulae Subsp. Lavendulae CCM 3239 Revealed Its High Similarity to Griseusins. Antibiotics, 2019, 8, 102.	1.5	7
59	Antimicrobial effect of 4-Nitrophenylhydrazones, isonicotinoylhydrazones and N-4-Nitrophenylglycosylamines of D- and L-aldoses. Folia Microbiologica, 1979, 24, 273-275.	1.1	6
60	Production ofd-mannitol fromd-aldopentoses by the yeastRhodotorula minuta. Folia Microbiologica, 1989, 34, 511-514.	1.1	6
61	An Acidic Heteropolysaccharide from the Flowers of Malva Mauritiana L.. Journal of Carbohydrate Chemistry, 1997, 16, 1373-1391.	0.4	6
62	NMR studies of molybdate complexes of d-erythro-l-manno-octose and d-erythro-l-gluco-octose and their alditols. Carbohydrate Research, 2002, 337, 1745-1756.	1.1	6
63	Cloud Microorganisms, an Interesting Source of Biosurfactants. , 0, , .		6
64	A Fructofuranan from the Roots of Rudbeckia fulgida, var. sullivantii (BOYNTON et BEADLE). Collection of Czechoslovak Chemical Communications, 1997, 62, 1799-1803.	1.0	6
65	Synthesis of 2-acetyl-3-methyl-4H-1,4-benzothiazine and its derivatives. Monatshefte FÃ¼r Chemie, 1993, 124, 425-430.	0.9	5
66	Chemical regioselective hydrolysis of peracetylated reducing disaccharides, specifically at the anomeric centre: Intermediates for the synthesis of oligosaccharides. Tetrahedron Letters, 1994, 35, 4247-4250.	0.7	5
67	Analogues of antifungal tjipanazoles from rebeccamycin. Bioorganic and Medicinal Chemistry, 2004, 12, 1955-1962.	1.4	5
68	Case study: monitoring of Glc4 tetrasaccharide in the urine of Pompe patients, use of MALDI-TOF MS, and 1H NMR. Chemical Papers, 2019, 73, 701-711.	1.0	5
69	New isolation process for bioactive food fiber from wild strawberry leaf. Biochemical Engineering Journal, 2020, 161, 107639.	1.8	5
70	Comparative ESI FT-MS and MALDI-TOF structural analyses of representative human N-linked glycans. Chemical Papers, 2015, 69, .	1.0	4
71	Structural features of biologically active extracellular polysaccharide produced by green microalgae Dictyosphaerium chlorelloides. International Journal of Biological Macromolecules, 2022, 214, 152-161.	3.6	4
72	A conformational study of the Smith degradation product of the Klebsiella K40 capsular polysaccharide by 1D NOESY and molecular mechanics calculations. Carbohydrate Research, 1994, 265, 151-159.	1.1	3

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73	An extracellular galactoxylomannan of acapsular Cryptococcus laurentii mutant. International Journal of Biological Macromolecules, 2008, 43, 394-396.	3.6	3
74	Molecular heterogeneity of arabinogalactan-protein from Coffea arabica instant coffee. International Journal of Biological Macromolecules, 2013, 59, 402-407.	3.6	3
75	Molecular diagnosis of Pompe disease using MALDI TOF/TOF and 1H NMR. Chemical Papers, 2016, 70, .	1.0	3
76	An efficient system for stable markerless integration of large biosynthetic gene clusters into Streptomyces chromosomes. Applied Microbiology and Biotechnology, 2021, 105, 2123-2137.	1.7	3
77	Polysaccharides in Siraitia grosvenori flowers and herbal tea. Chemical Papers, 2021, 75, 1175-1185.	1.0	1
78	Contribution of oligosaccharide investigation for diagnostics of lysosomal storage diseases in Slovakia. Clinical Biochemistry, 2014, 47, 779.	0.8	0