

# Maria Anita Mendes

## List of Publications by Year in descending order

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82  
papers

2,238  
citations

218677

26  
h-index

243625

44  
g-index

82  
all docs

82  
docs citations

82  
times ranked

2221  
citing authors

#	ARTICLE	IF	CITATIONS
1	Jelleines: a family of antimicrobial peptides from the Royal Jelly of honeybees ( <i>Apis mellifera</i> ). <i>Peptides</i> , 2004, 25, 919-928.	2.4	253
2	Structural and functional characterization of two novel peptide toxins isolated from the venom of the social wasp <i>Polybia paulista</i> . <i>Peptides</i> , 2005, 26, 2157-2164.	2.4	136
3	Profiling the proteome complement of the secretion from hypopharyngeal gland of Africanized nurse-honeybees ( <i>L.</i> ). <i>Insect Biochemistry and Molecular Biology</i> , 2005, 35, 85-91.	2.7	115
4	Structural and biological characterization of two novel peptides from the venom of the neotropical social wasp <i>Agelaia pallipes pallipes</i> . <i>Toxicon</i> , 2004, 44, 67-74.	1.6	90
5	A Cryotrap Membrane Introduction Mass Spectrometry System for Analysis of Volatile Organic Compounds in Water at the Low Parts-per-Trillion Level. <i>Analytical Chemistry</i> , 1996, 68, 3502-3506.	6.5	78
6	Structural and biological characterization of three novel mastoparan peptides from the venom of the neotropical social wasp <i>Protopolybia exigua</i> (Saussure). <i>Toxicon</i> , 2005, 45, 101-106.	1.6	63
7	Crystal structure of human purine nucleoside phosphorylase complexed with acyclovir. <i>Biochemical and Biophysical Research Communications</i> , 2003, 308, 553-559.	2.1	58
8	Bioactivity and bioaccessibility of protein hydrolyzates from industrial byproducts of Stripped weakfish ( <i>Cynoscion guatucupa</i> ). <i>LWT - Food Science and Technology</i> , 2019, 111, 408-413.	5.2	58
9	Structures of human purine nucleoside phosphorylase complexed with inosine and ddi. <i>Biochemical and Biophysical Research Communications</i> , 2004, 313, 907-914.	2.1	55
10	Crystal structure of human purine nucleoside phosphorylase at 2.3Å... resolution. <i>Biochemical and Biophysical Research Communications</i> , 2003, 308, 545-552.	2.1	54
11	Structural basis for inhibition of human PNP by immucillin-H. <i>Biochemical and Biophysical Research Communications</i> , 2003, 309, 917-922.	2.1	47
12	Docking and small angle X-ray scattering studies of purine nucleoside phosphorylase. <i>Biochemical and Biophysical Research Communications</i> , 2003, 309, 923-928.	2.1	45
13	Bioleaching of electronic waste using bacteria isolated from the marine sponge <i>Hymeniacidon heliophila</i> (Porifera). <i>Journal of Hazardous Materials</i> , 2017, 329, 120-130.	12.4	45
14	Mass spectrometric characterization of two novel inflammatory peptides from the venom of the social wasp <i>Polybia paulista</i> . <i>Rapid Communications in Mass Spectrometry</i> , 2004, 18, 1095-1102.	1.5	43
15	Photocatalytic Degradation of Phenol and Trichloroethylene: On-Line and Real-Time Monitoring via Membrane Introduction Mass Spectrometry. <i>Industrial &amp; Engineering Chemistry Research</i> , 1999, 38, 1754-1758.	3.7	42
16	Mass spectrometry on-line monitoring and MS2 product characterization of TiO <sub>2</sub> /UV photocatalytic degradation of chlorinated volatile organic compounds. <i>Journal of the American Society for Mass Spectrometry</i> , 1998, 9, 1321-1327.	2.8	41
17	Trace level analysis of VOCs and semi-VOCs in aqueous solution using a direct insertion membrane probe and trap and release membrane introduction mass spectrometry. <i>Analyst</i> , The, 2000, 125, 21-24.	3.5	41
18	Locating the Charge Site in Heteroaromatic Cations. <i>Chemistry - A European Journal</i> , 1998, 4, 1161-1168.	3.3	39

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19	Crystal structure of human PNP complexed with guanine. <i>Biochemical and Biophysical Research Communications</i> , 2003, 312, 767-772.	2.1	39
20	Use of electrospray tandem mass spectrometry for identification of microcystins during a cyanobacterial bloom event. <i>Biochemical and Biophysical Research Communications</i> , 2006, 344, 741-746.	2.1	38
21	Headspace Membrane Introduction Mass Spectrometry for Trace Level Analysis of VOCs in Soil and Other Solid Matrixes. <i>Analytical Chemistry</i> , 2000, 72, 2166-2170.	6.5	36
22	Cloning, overexpression, and purification of functional human purine nucleoside phosphorylase. <i>Protein Expression and Purification</i> , 2003, 27, 158-164.	1.3	36
23	Amino acid quantitation in aqueous matrices via trap and release membrane introduction mass spectrometry: homocysteine in human plasma. <i>Analyst, The</i> , 2001, 126, 1212-1215.	3.5	33
24	Two new bradykinin-related peptides from the venom of the social wasp <i>Protopolybia exigua</i> (Saussure). <i>Peptides</i> , 2006, 27, 2632-2639.	2.4	31
25	Mechanistic implications of zinc(II) ions on the degradation of phenol by the fenton reaction. <i>Journal of the Brazilian Chemical Society</i> , 2012, 23, 1372-1377.	0.6	30
26	Structure Determination of a Tetrahydro- $\beta$ -carboline of Arthropod Origin: A Novel Alkaloid-Toxin Subclass from the Web of Spider <i>Nephila clavipes</i> . <i>Chemistry and Biodiversity</i> , 2005, 2, 525-534.	2.1	28
27	Protonectin (1 $\alpha$ 6): A novel chemotactic peptide from the venom of the social wasp <i>Agelais pallipes</i> . <i>Toxicon</i> , 2010, 56, 880-889.	1.6	27
28	Bioprospecting of probiotics with antimicrobial activities against <i>Salmonella Heidelberg</i> and that produce B-complex vitamins as potential supplements in poultry nutrition. <i>Scientific Reports</i> , 2020, 10, 7235.	3.3	26
29	Direct detection of large fat-soluble biomolecules in solution using membrane inlet mass spectrometry and desorption chemical ionization. <i>Analyst, The</i> , 2000, 125, 211-215.	3.5	24
30	Structural characterization of novel chemotactic and mastoparan peptides from the venom of the social wasp <i>Agelais pallipes pallipes</i> by high-performance liquid chromatography/electrospray ionization tandem mass spectrometry. <i>Rapid Communications in Mass Spectrometry</i> , 2004, 18, 636-642.	1.5	23
31	Functional shikimate dehydrogenase from <i>Mycobacterium tuberculosis</i> H37Rv: Purification and characterization. <i>Protein Expression and Purification</i> , 2006, 46, 429-437.	1.3	23
32	Formal Fusion of a Pyrrole Ring onto 2-Pyridyl and 2-Pyrimidyl Cations: One-Step Gas-Phase Synthesis of Indolizine and Its Derivatives. <i>Chemistry - A European Journal</i> , 2000, 6, 321-326.	3.3	22
33	The Venomous Secrets of the Web Droplets from the Viscid Spiral of the Orb-Weaver Spider <i>Nephila clavipes</i> (Araneae, Tetragnatidae). <i>Chemistry and Biodiversity</i> , 2006, 3, 727-741.	2.1	21
34	Mechanism of Pyrogallol Red Oxidation Induced by Free Radicals and Reactive Oxidant Species. A Kinetic and Spectroelectrochemistry Study. <i>Journal of Physical Chemistry B</i> , 2013, 117, 4870-4879.	2.6	21
35	Identification of Possible Salivary Metabolic Biomarkers and Altered Metabolic Pathways in South American Patients Diagnosed with Oral Squamous Cell Carcinoma. <i>Metabolites</i> , 2021, 11, 650.	2.9	21
36	Structural and functional characterization of N-terminally blocked peptides isolated from the venom of the social wasp <i>Polybia paulista</i> . <i>Peptides</i> , 2004, 25, 2069-2078.	2.4	20

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37	Transacetalization with gaseous carboxonium and carbosulfonium ions. <i>Journal of the American Society for Mass Spectrometry</i> , 2001, 12, 14-22.	2.8	19
38	One-step purification of 5-enolpyruvylshikimate-3-phosphate synthase enzyme from <i>Mycobacterium tuberculosis</i> . <i>Protein Expression and Purification</i> , 2003, 28, 287-292.	1.3	19
39	Structure Determination of Hydroxytryptargine: A New Tetrahydro- $\beta$ -Carboline Toxin from the Venom of the Spider <i>Parawixia bistriata</i> . <i>Helvetica Chimica Acta</i> , 2005, 88, 796-801.	1.6	19
40	DAHPSynthase from <i>Mycobacterium tuberculosis</i> H37Rv: cloning, expression, and purification of functional enzyme. <i>Protein Expression and Purification</i> , 2005, 40, 23-30.	1.3	19
41	Isolation and chemical characterization of PwTx-II: A novel alkaloid toxin from the venom of the spider <i>Parawixia bistriata</i> (Araneidae, Araneae). <i>Toxicon</i> , 2005, 46, 786-796.	1.6	18
42	Extracellular carotenoid production and fatty acids profile of <i>Parachlorella kessleri</i> under increased CO <sub>2</sub> concentrations. <i>Journal of Biotechnology</i> , 2021, 329, 151-159.	3.8	18
43	Identification of bioactive peptides released from in vitro gastrointestinal digestion of yam proteins ( <i>Dioscorea cayennensis</i> ). <i>Food Research International</i> , 2021, 143, 110286.	6.2	18
44	Oxygen Atom Transfer to Positive Ions: A Novel Reaction of Ozone in the Gas Phase. <i>Journal of the American Chemical Society</i> , 1998, 120, 7869-7874.	13.7	17
45	Double transacetalization of diacylium ions. , 2000, 35, 189-198.		17
46	Gas-Phase Chemistry of the Sulfur Hexafluoride Fragment Ions SF <sub>n</sub> <sup>+</sup> (n= 0-5) and SF <sub>n</sub> <sup>2+</sup> (n= 2, 4). Ab Initio Thermochemistry of Novel Reactions of S <sup>+</sup> and SF <sup>+</sup> . <i>Journal of Physical Chemistry A</i> , 1998, 102, 5189-5195.	2.5	16
47	Anoxic degradation of chlorpyrifos by zerovalent monometallic and bimetallic particles in solution. <i>Chemosphere</i> , 2020, 244, 125461.	8.2	16
48	Structure Determination of an Organometallic 1-(Diazenylaryl)ethanol: A Novel Toxin Subclass from the Web of the Spider <i>Nephila clavipes</i> . <i>Chemistry and Biodiversity</i> , 2004, 1, 830-838.	2.1	14
49	Contribution of mass spectrometry in assessing quality of petroleum fractions. <i>Journal of Petroleum Science and Engineering</i> , 2013, 109, 198-205.	4.2	13
50	Comparative study of different matrix/solvent systems for the analysis of crude lyophilized microalgal preparations using matrix-assisted laser desorption/ionization time-of-flight mass spectrometry. <i>Rapid Communications in Mass Spectrometry</i> , 2015, 29, 295-303.	1.5	13
51	Characterization of the phenol monooxygenase gene from <i>Chromobacterium violaceum</i> : Potential use for phenol biodegradation. <i>Biotechnology and Bioprocess Engineering</i> , 2009, 14, 694-701.	2.6	12
52	Identification of microorganisms in biofluids of individuals with periodontitis and chronic kidney disease using matrix-assisted laser desorption/ionization time-of-flight mass spectrometry. <i>Rapid Communications in Mass Spectrometry</i> , 2016, 30, 1228-1232.	1.5	12
53	Isolation of Bisphenol A-Tolerating/degrading <i>Shewanella haliotis</i> Strain MH137742 from an Estuarine Environment. <i>Applied Biochemistry and Biotechnology</i> , 2019, 189, 103-115.	2.9	12
54	<i>Chlorella vulgaris</i> phycoremediation at low Cu <sup>2+</sup> contents: Proteomic profiling of microalgal metabolism related to fatty acids and CO <sub>2</sub> fixation. <i>Chemosphere</i> , 2021, 284, 131272.	8.2	12

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55	The shielding effect of glycerol against protein ionization in electrospray mass spectrometry. <i>Rapid Communications in Mass Spectrometry</i> , 2003, 17, 672-677.	1.5	11
56	Self-assembly of supramolecular structure based on copper-lipopeptides isolated from e-waste bioleaching liquor. <i>Journal of Hazardous Materials</i> , 2019, 368, 63-71.	12.4	11
57	Chicken Combs and Wattles as Sources of Bioactive Peptides: Optimization of Hydrolysis, Identification by LC-ESI-MS2 and Bioactivity Assessment. <i>Molecules</i> , 2020, 25, 1698.	3.8	10
58	Screening of organic nitrate explosives: selective ion/molecule reactions for the diagnostic ion NO <sub>2</sub> <sup>+</sup> . <i>Journal of Mass Spectrometry</i> , 2005, 40, 1506-1508.	1.6	9
59	Multiple bradykinin-related peptides from the capture web of the spider <i>Nephila clavipes</i> (Araneae, Tj ETQq1 1 0.784314 rgBJ /Overlo	2.4	9
60	Response mechanism of mine-isolated fungus <i>Aspergillus niger</i> IOC 4687 to copper stress determined by proteomics. <i>Metallomics</i> , 2019, 11, 1558-1566.	2.4	9
61	Assessment of the microbiological quality and safety of minimally processed vegetables sold in Piracicaba, SP, Brazil. <i>Letters in Applied Microbiology</i> , 2020, 71, 187-194.	2.2	9
62	Oxidation of Sodium Dodecylbenzenesulfonate with Chrysothrix: Online Monitoring by Membrane Introduction Mass Spectrometry. <i>Journal of Surfactants and Detergents</i> , 2007, 10, 207-210.	2.1	8
63	Non-traditional atrazine degradation induced by zero-valent copper: process optimization by the Doehlert experimental design, intermediates detection and toxicity assessment. <i>Journal of Chemical Technology and Biotechnology</i> , 2019, 94, 1156-1164.	3.2	8
64	Finding the combination of multiple biomarkers to diagnose oral squamous cell carcinoma – A data mining approach. <i>Computers in Biology and Medicine</i> , 2022, 143, 105296.	7.0	8
65	Bacteriocinogenic probiotic bacteria isolated from an aquatic environment inhibit the growth of food and fish pathogens. <i>Scientific Reports</i> , 2022, 12, 5530.	3.3	8
66	Adducts and dimers of SF <sub>n</sub> <sup>+</sup> (n = 1–5) with benzene, acetonitrile, and pyridine. Gas-phase generation and ab initio structures and thermochemistry. <i>International Journal of Mass Spectrometry</i> , 1999, 182-183, 369-380.	1.5	7
67	Microbiological quality and safety of minimally processed parsley ( <i>Petroselinum crispum</i> ) sold in food markets, southeastern Brazil. <i>Journal of Applied Microbiology</i> , 2021, 131, 272-280.	3.1	7
68	Ortho Effects in the Dissociation of Ionized N-Chlorophenyl- and N-Bromophenyl-2-Aminobenzamides: Intramolecular Aromatic Substitution with Cyclization to Protonated 2-(2-Aminophenyl)-1H-Benzimidazoles. <i>European Journal of Mass Spectrometry</i> , 2002, 8, 27-33.	1.0	6
69	Mathematical Modeling of an Industrial Delayed Coking Unit. <i>Computer Aided Chemical Engineering</i> , 2015, 37, 515-520.	0.5	5
70	Label-free peptide quantification coupled with in silico mapping of proteases for identification of potential serum biomarkers in gastric adenocarcinoma patients. <i>Clinical Biochemistry</i> , 2020, 79, 61-69.	1.9	5
71	Analyzing glycerol-mediated protein oligomerization by electrospray ionization mass spectrometry. <i>Rapid Communications in Mass Spectrometry</i> , 2005, 19, 2636-2642.	1.5	4
72	Metabolomic and secretomic approach to the resistance features of the fungus <i>Aspergillus niger</i> IOC 4687 to copper stress. <i>Metallomics</i> , 2021, 13, .	2.4	4

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73	Identification of the Major Allergens of the Venom from the South American Social Wasp <i>Agelaea pallipes</i> . <i>Journal of Allergy and Clinical Immunology</i> , 2006, 117, S308.	2.9	3
74	Reduction of RBL-2H3 cells degranulation by nitroaromatic compounds from a <i>Bacillus</i> strain associated to the Amazonian sponge <i>Metania reticulata</i> . <i>Journal of the Marine Biological Association of the United Kingdom</i> , 2016, 96, 567-572.	0.8	3
75	Yam ( <i>Dioscorea cayennensis</i> ) protein concentrate: Production, characterization and in vitro evaluation of digestibility. <i>LWT - Food Science and Technology</i> , 2021, 140, 110771.	5.2	3
76	Phycoremediation of Copper by <i>Chlorella protothecoides</i> (UTEX 256): Proteomics of Protein Biosynthesis and Stress Response. <i>Biomass</i> , 2022, 2, 116-129.	2.8	3
77	Sunlight-driven environmental photodegradation of 2-chlorobiphenyl (PCB-1) in surface waters: kinetic study and mathematical simulations. <i>Environmental Science and Pollution Research</i> , 2022, 29, 42231-42241.	5.3	2
78	Agricultural practices in Brazilian organic farms and microbiological characteristics of samples collected along the production chain. <i>Journal of Applied Microbiology</i> , 2022, 132, 1185-1196.	3.1	0
79	Integrating endogenous peptides analysis and protease mapping for identification of potential serum biomarkers in gastric adenocarcinoma.. <i>Journal of Clinical Oncology</i> , 2019, 37, e15564-e15564.	1.6	0
80	Evaluation of oral changes and modification of the oral microbiome in patients admitted to the Intensive Care Unit. <i>Research, Society and Development</i> , 2022, 11, e59411326866.	0.1	0
81	Proteomic analysis of a copper mine isolated fungus <i>Rhizopus</i> microspores IOC 4686 when exposed to copper sulfate. , 0, , 001-010.		0
82	Formal Fusion of a Pyrrole Ring onto 2-Pyridyl and 2-Pyrimidyl Cations: One-Step Gas-Phase Synthesis of Indolizine and Its Derivatives. <i>Chemistry - A European Journal</i> , 2000, 6, 321-326.	3.3	0