

# Maria L Serralheiro

## List of Publications by Citations

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92  
papers

2,139  
citations

24  
h-index

44  
g-index

99  
ext. papers

2,423  
ext. citations

4  
avg, IF

4.72  
L-index

#	Paper	IF	Citations
92	The in vitro screening for acetylcholinesterase inhibition and antioxidant activity of medicinal plants from Portugal. <i>Journal of Ethnopharmacology</i> , <b>2006</b> , 108, 31-7	5	294
91	Antioxidant and antiacetylcholinesterase activities of five plants used as Portuguese food spices. <i>Food Chemistry</i> , <b>2007</b> , 103, 778-786	8.5	254
90	Preparation and physicochemical characterization of Ag nanoparticles biosynthesized by <i>Lippia citriodora</i> (Lemon Verbena). <i>Colloids and Surfaces B: Biointerfaces</i> , <b>2010</b> , 81, 67-73	6	158
89	Biological sulphate reduction and redox mediator effects on azo dye decolourisation in anaerobic/aerobic sequencing batch reactors. <i>Enzyme and Microbial Technology</i> , <b>2005</b> , 36, 790-799	3.8	75
88	Rosmarinic acid, scutellarein 4'-methyl ether 7-O-glucuronide and (16S)-coleon E are the main compounds responsible for the antiacetylcholinesterase and antioxidant activity in herbal tea of <i>Plectranthus barbatus</i> (also boldo). <i>Food Chemistry</i> , <b>2009</b> , 114, 798-805	8.5	71
87	Antioxidant and antiacetylcholinesterase activities of essential oils from <i>Cymbopogon schoenanthus</i> L. Spreng. Determination of chemical composition by GC-mass spectrometry and <sup>13</sup> C NMR. <i>Food Chemistry</i> , <b>2008</b> , 109, 630-637	8.5	61
86	Antioxidant, antiacetylcholinesterase and antimicrobial activities of <i>Cymbopogon schoenanthus</i> L. Spreng (lemon grass) from Tunisia. <i>LWT - Food Science and Technology</i> , <b>2010</b> , 43, 331-336	5.4	60
85	Application of factorial design to the study of transesterification reactions using cutinase in AOT-reversed micelles. <i>Enzyme and Microbial Technology</i> , <b>1997</b> , 21, 117-123	3.8	58
84	Polyphenols as acetylcholinesterase inhibitors: Structural specificity and impact on human disease. <i>Nutrition and Aging (Amsterdam, Netherlands)</i> , <b>2012</b> , 1, 99-111		57
83	Acetylcholinesterase inhibition and antioxidant activity of the water extracts of several <i>Hypericum</i> species. <i>Food Chemistry</i> , <b>2010</b> , 120, 1076-1082	8.5	50
82	Antioxidant capacity and phenolic contents of some Mediterranean medicinal plants and their potential role in the inhibition of cyclooxygenase-1 and acetylcholinesterase activities. <i>Industrial Crops and Products</i> , <b>2014</b> , 53, 6-15	5.9	49
81	Function of <i>Plectranthus barbatus</i> herbal tea as neuronal acetylcholinesterase inhibitor. <i>Food and Function</i> , <b>2011</b> , 2, 130-6	6.1	46
80	Bioactivity studies and chemical profile of the antidiabetic plant <i>Genista tenera</i> . <i>Journal of Ethnopharmacology</i> , <b>2009</b> , 122, 384-93	5	40
79	Optimization of medicinal plant extraction methods and their encapsulation through extrusion technology. <i>Measurement: Journal of the International Measurement Confederation</i> , <b>2014</b> , 58, 249-255	4.6	35
78	Bifunctional phenolic-choline conjugates as anti-oxidants and acetylcholinesterase inhibitors. <i>Journal of Enzyme Inhibition and Medicinal Chemistry</i> , <b>2011</b> , 26, 485-97	5.6	33
77	Antioxidant and anti-acetylcholinesterase activity of commercially available medicinal infusions after in vitro gastrointestinal digestion. <i>Journal of Medicinal Plants Research</i> , <b>2013</b> , 7, 1370-1378	0.6	32
76	Antiacetylcholinesterase and antioxidant activities of <i>Plectranthus barbatus</i> tea, after in vitro gastrointestinal metabolism. <i>Food Chemistry</i> , <b>2010</b> , 122, 179-187	8.5	32

75	Dipeptide synthesis and separation in a reversed micellar membrane reactor. <i>Enzyme and Microbial Technology</i> , <b>1994</b> , 16, 1064-73	3.8	30
74	Isorhamnetin derivatives and piscidic acid for hypercholesterolemia: cholesterol permeability, HMG-CoA reductase inhibition, and docking studies. <i>Archives of Pharmacal Research</i> , <b>2017</b> , 40, 1278-1286	6.1	29
73	Application of Fourier transform infrared spectroscopy for monitoring hydrolysis and synthesis reactions catalyzed by a recombinant amidase. <i>Analytical Biochemistry</i> , <b>2005</b> , 346, 49-58	3.1	29
72	Effect of luteolin and apigenin on rosmarinic acid bioavailability in Caco-2 cell monolayers. <i>Food and Function</i> , <b>2013</b> , 4, 426-31	6.1	28
71	Design, synthesis and bioevaluation of tacrine hybrids with cinnamate and cinnamylidene acetate derivatives as potential anti-Alzheimer drugs. <i>MedChemComm</i> , <b>2015</b> , 6, 1969-1977	5	26
70	Acetylcholinesterase inhibition, antioxidant activity and toxicity of Peumus boldus water extracts on HeLa and Caco-2 cell lines. <i>Food and Chemical Toxicology</i> , <b>2012</b> , 50, 2656-62	4.7	26
69	Broad bean ( <i>Vicia faba</i> L.) pods: a rich source of bioactive ingredients with antimicrobial, antioxidant, enzyme inhibitory, anti-diabetic and health-promoting properties. <i>Food and Function</i> , <b>2018</b> , 9, 2051-2069	6.1	25
68	Evaluation of cholesterol absorption and biosynthesis by decoctions of <i>Annona cherimola</i> leaves. <i>Journal of Ethnopharmacology</i> , <b>2013</b> , 150, 718-23	5	24
67	The inhibitory effect of <i>Plectranthus barbatus</i> and <i>Plectranthus ecklonii</i> leaves on the viability, glucosyltransferase activity and biofilm formation of <i>Streptococcus sobrinus</i> and <i>Streptococcus mutans</i> . <i>Food Chemistry</i> , <b>2010</b> , 119, 664-668	8.5	22
66	Inhibition of HMG-CoA reductase activity and cholesterol permeation through Caco-2 cells by caffeoylquinic acids from <i>Vernonia condensata</i> leaves. <i>Revista Brasileira De Farmacognosia</i> , <b>2016</b> , 26, 738-743	2	20
65	Isolation and characterization of mercury-resistant bacteria from sediments of Tagus Estuary (Portugal): implications for environmental and human health risk assessment. <i>Journal of Toxicology and Environmental Health - Part A: Current Issues</i> , <b>2014</b> , 77, 155-68	3.2	20
64	Biological properties of phenolic compound extracts in selected Algerian honeys The inhibition of acetylcholinesterase and glucosidase activities. <i>European Journal of Integrative Medicine</i> , <b>2019</b> , 25, 77-84	1.7	20
63	<i>Cynara scolymus</i> L.: A promising Mediterranean extract for topical anti-aging prevention. <i>Industrial Crops and Products</i> , <b>2017</b> , 109, 699-706	5.9	19
62	Measuring enzymatic activity of a recombinant amidase using Fourier transform infrared spectroscopy. <i>Analytical Biochemistry</i> , <b>2003</b> , 322, 208-14	3.1	19
61	Anaerobic reduction of a sulfonated azo dye, Congo Red, by sulfate-reducing bacteria. <i>Applied Biochemistry and Biotechnology</i> , <b>2002</b> , 97, 147-63	3.2	18
60	Continuous production and simultaneous precipitation of a dipeptide in a reversed micellar membrane reactor. <i>Enzyme and Microbial Technology</i> , <b>1999</b> , 24, 507-513	3.8	18
59	Interaction between <i>Plectranthus barbatus</i> herbal tea components and acetylcholinesterase: binding and activity studies. <i>Food and Function</i> , <b>2012</b> , 3, 1176-84	6.1	16
58	Herbal infusions bioelectrochemical polyphenolic index: Green tea The gallic acid interference. <i>Food Chemistry</i> , <b>2011</b> , 129, 1537-1543	8.5	16

57	Thermostability of $\beta$ -chymotrypsin encapsulated in reversed micelles. <i>Biotechnology Letters</i> , <b>1990</b> , 12, 167-172	3	16
56	Bioactivities of (Gentianaceae) Decoctions: Antioxidant Activity, Enzyme Inhibition and Docking Studies. <i>Molecules</i> , <b>2019</b> , 24,	4.8	15
55	Antiacetylcholinesterase activity and docking studies with chlorogenic acid, cynarin and arzanol from <i>Helichrysum stoechas</i> (Lamiaceae). <i>Medicinal Chemistry Research</i> , <b>2017</b> , 26, 2942-2950	2.2	14
54	In vitro digestion, antioxidant and antiacetylcholinesterase activities of two species of <i>Ruta</i> : <i>Ruta chalepensis</i> and <i>Ruta montana</i> . <i>Pharmaceutical Biology</i> , <b>2017</b> , 55, 101-107	3.8	14
53	Evidence of Mercury Methylation and Demethylation by the Estuarine Microbial Communities Obtained in Stable Hg Isotope Studies. <i>International Journal of Environmental Research and Public Health</i> , <b>2018</b> , 15,	4.6	14
52	Screening of suitable immobilized metal chelates for adsorption of monoclonal antibodies against mutant amidase from <i>Pseudomonas aeruginosa</i> . <i>Journal of Molecular Recognition</i> , <b>2006</b> , 19, 340-7	2.6	12
51	Characterization of monoclonal antibodies against altered (T103I) amidase from <i>Pseudomonas aeruginosa</i> . <i>Molecular Biotechnology</i> , <b>2005</b> , 30, 207-19	3	12
50	Valorization of kiwifruit production: leaves of the pruning branches of <i>Actinidia deliciosa</i> as a promising source of polyphenols. <i>European Food Research and Technology</i> , <b>2017</b> , 243, 1343-1353	3.4	11
49	Action of euptox A from <i>Ageratina adenophora</i> juice on human cell lines: A top-down study using FTIR spectroscopy and protein profiling. <i>Toxicology in Vitro</i> , <b>2019</b> , 57, 217-225	3.6	11
48	Irreversible thermoinactivation of $\beta$ -chymotrypsin in buffer and water miscible organic solvent. Comparison with a reverse micellar system. <i>Journal of Molecular Catalysis B: Enzymatic</i> , <b>1999</b> , 7, 191-205		11
47	Immobilized metal affinity chromatography of monoclonal immunoglobulin M against mutant amidase from <i>Pseudomonas aeruginosa</i> . <i>Molecular Biotechnology</i> , <b>2006</b> , 33, 103-14	3	10
46	Effect of Food Preparations on In Vitro Bioactivities and Chemical Components of. <i>Foods</i> , <b>2020</b> , 9,	4.9	10
45	Interaction between <i>Plectranthus barbatus</i> herbal tea components and human serum albumin and lysozyme: Binding and activity studies. <i>Spectroscopy</i> , <b>2011</b> , 26, 79-92		9
44	Development of a new amperometric biosensor based on polyphenoloxidase and polyethersulphone membrane. <i>Pure and Applied Chemistry</i> , <b>2001</b> , 73, 1993-1999	2.1	9
43	Mechanism of action and the biological activities of <i>Nigella sativa</i> oil components. <i>Food Bioscience</i> , <b>2020</b> , 38, 100783	4.9	9
42	Bioactivities of decoctions from <i>Plectranthus</i> species related to their traditional use on the treatment of digestive problems and alcohol intoxication. <i>Journal of Ethnopharmacology</i> , <b>2018</b> , 220, 147-154	5	8
41	Kinetic properties of wild-type and altered recombinant amidases by the use of ion-selective electrode assay method. <i>Analytical Biochemistry</i> , <b>2006</b> , 355, 232-9	3.1	8
40	Application of empirical design methodologies to the study of the influence of reaction conditions and N-alpha-protecting group structure on the enzymatic X-Phe-Leu-NH(2) dipeptide synthesis in buffer/dimethylformamide solvents systems. <i>Biotechnology and Bioengineering</i> , <b>1992</b> , 39, 539-49	4.9	8

39	Novel sulfenamides as promising acetylcholinesterase inhibitors. <i>Journal of Heterocyclic Chemistry</i> , <b>2011</b> , 48, 1287-1294	1.9	7
38	Synthesis of AcPheLeuNH(2) by alpha-chymotrypsin in TTAB reversed micelles: Application of response surface methodology to the optimization of the system. <i>Biotechnology and Bioengineering</i> , <b>1994</b> , 43, 1031-42	4.9	7
37	Thermostability of $\alpha$ -chymotrypsin in water/organic solvent systems. <i>Biotechnology Letters</i> , <b>1992</b> , 14, 1041-1044	3	7
36	Brown Algae Potential as a Functional Food against Hypercholesterolemia: Review. <i>Foods</i> , <b>2021</b> , 10,	4.9	7
35	Phenolic compounds from Actinidia deliciosa leaves: Caco-2 permeability, enzyme inhibitory activity and cell protein profile studies. <i>Journal of King Saud University - Science</i> , <b>2018</b> , 30, 513-518	3.6	6
34	Metabolomics for undergraduates: Identification and pathway assignment of mitochondrial metabolites. <i>Biochemistry and Molecular Biology Education</i> , <b>2016</b> , 44, 38-54	1.3	6
33	Production of hydroxamic acids by immobilized Pseudomonas aeruginosa cells: Kinetic analysis in reverse micelles. <i>Journal of Molecular Catalysis B: Enzymatic</i> , <b>2013</b> , 93, 28-33		6
32	Monoclonal antibodies recognize conformational epitopes on wild-type and recombinant mutant amidases from pseudomonas aeruginosa. <i>Molecular Biotechnology</i> , <b>2007</b> , 37, 136-45	3	6
31	Serum Albumin Modulates the Bioactivity of Rosmarinic Acid. <i>Journal of Medicinal Food</i> , <b>2018</b> , 21, 801-807	2.8	5
30	Amidase encapsulated in TTAB reversed micelles for the study of transamidation reactions. <i>Biocatalysis and Biotransformation</i> , <b>2005</b> , 23, 407-414	2.5	5
29	Study of the Stability Of Vaccinium myrtillus Peroxidase in Reverse Micellar Systems. <i>Biocatalysis and Biotransformation</i> , <b>2002</b> , 20, 129-135	2.5	5
28	Peptide synthesis by microencapsulated chymotrypsin. <i>Annals of the New York Academy of Sciences</i> , <b>1990</b> , 613, 638-42	6.5	5
27	Cholesterol transporter proteins in HepG2 cells can be modulated by phenolic compounds present in Opuntia ficus-indica aqueous solutions. <i>Journal of Functional Foods</i> , <b>2020</b> , 64, 103674	5.1	5
26	Phytochemical analysis and in vitro and in vivo evaluation of biological activities of artichoke (Cynara scolymus L.) floral stems: Towards the valorization of food by-products. <i>Food Chemistry</i> , <b>2020</b> , 333, 127506	8.5	5
25	Antimicrobial Ceramic Filters for Water Bio-Decontamination. <i>Coatings</i> , <b>2021</b> , 11, 323	2.9	5
24	Phenolic profile and biological activities of decoctions from Santolina impressa, a Portuguese endemic species. <i>Journal of Herbal Medicine</i> , <b>2020</b> , 21, 100335	2.3	4
23	Stability and enzymatic studies with omeprazole:hydroxypropyl- $\beta$ -cyclodextrin. <i>Journal of Inclusion Phenomena and Macrocyclic Chemistry</i> , <b>2011</b> , 70, 407-414		4
22	Thermal Stability of $\alpha$ -Chymotrypsin, Native and Chemically Modified, Inside Reverse Micelles During Peptide Synthesis. <i>Biocatalysis and Biotransformation</i> , <b>1999</b> , 17, 3-19	2.5	4

21	Application of Fractional Factorial Design to the Study of Enzymatic Dipeptide Synthesis in Reverse Micelles. <i>Progress in Biotechnology</i> , <b>1992</b> , 8, 725-732		4
20	Yogurt Enriched with : An Innovative Functional Food. <i>Foods</i> , <b>2021</b> , 10,	4.9	3
19	Bioactivities of iridoids and flavonoids present in decoctions from aerial parts of <i>Verbascum betonicifolium</i> . <i>European Journal of Integrative Medicine</i> , <b>2020</b> , 37, 101171	1.7	2
18	Optimization of microbial detoxification for an aquatic mercury-contaminated environment. <i>Journal of Toxicology and Environmental Health - Part A: Current Issues</i> , <b>2017</b> , 80, 788-796	3.2	2
17	Chromatographic behaviour of monoclonal antibodies against wild-type amidase from <i>Pseudomonas aeruginosa</i> on immobilized metal chelates. <i>Biomedical Chromatography</i> , <b>2011</b> , 25, 1327-37 <sup>1.7</sup>		2
16	Melanin: Production from Cheese Bacteria, Chemical Characterization, and Biological Activities. <i>International Journal of Environmental Research and Public Health</i> , <b>2021</b> , 18,	4.6	2
15	Ultrasound Assisted Extraction of Phenolic Compounds from a Jujube By-Product with Valuable Bioactivities. <i>Processes</i> , <b>2020</b> , 8, 1441	2.9	2
14	New bioactive constituents characterized by LCMS/MS in optimized microwave extract of jujube seeds ( <i>Zizyphus lotus</i> L.). <i>Journal of Food Measurement and Characterization</i> , <b>2021</b> , 15, 3216-3233	2.8	2
13	Molecular-level changes induced by hydroxycinnamic acid derivatives in HepG2 cell line: Comparison with pravastatin. <i>Life Sciences</i> , <b>2021</b> , 283, 119846	6.8	2
12	Glandular Trichomes and Biological Activities in <i>Helichrysum italicum</i> and <i>H. stoechas</i> , Two Asteraceae Species Growing Wild in Portugal. <i>Microscopy and Microanalysis</i> , <b>2015</b> , 21 Suppl 5, 91-2	0.5	1
11	Substrate interaction with recombinant amidase from <i>Pseudomonas aeruginosa</i> during biocatalysis. <i>Biocatalysis and Biotransformation</i> , <b>2009</b> , 27, 367-376	2.5	1
10	Bioactives from <i>Psidium guajava</i> leaf decoction: LC-HRMS-MS-Qtof identification, bioactivities and bioavailability evaluation <b>2022</b> , 1, 100003		1
9	Data on identification of primary and secondary metabolites in aqueous extract of. <i>Data in Brief</i> , <b>2020</b> , 32, 106146	1.2	1
8	<i>Zizyphus lotus</i> (L.) Lam. plant treatment by ultrasounds and microwaves to improve antioxidants yield and quality: An overview. <i>Najfnr</i> , <b>2021</b> , 5, 53-68	0.2	1
7	<i>Zizyphus lotus</i> (L.) Lam. plant treatment by ultrasounds and microwaves to improve antioxidants yield and quality: An overview. <i>Najfnr</i> , <b>2021</b> , 5, 53-68	0.2	1
6	<i>Undaria pinnatifida</i> (U. pinnatifida) bioactivity: Antioxidant, gastro-intestinal motility, cholesterol biosynthesis and liver cell lines proteome. <i>Journal of Functional Foods</i> , <b>2021</b> , 83, 104567	5.1	0
5	Untargeted metabolomic study of HepG2 cells under the effect of <i>Fucus vesiculosus</i> aqueous extract. <i>Rapid Communications in Mass Spectrometry</i> , <b>2021</b> , 35, e9197	2.2	0
4	Phytochemical Characterization and Biological Evaluation of the Aqueous and Supercritical Fluid Extracts from <i>Salvia sclareoides</i> Brot. <i>Open Chemistry</i> , <b>2017</b> , 15, 82-91	1.6	

- 3 Application of factorial design to the optimization of peroxidase activity in reverse micelles of bis(2-ethylhexyl)sodium sulfosuccinate/ isooctane. *Applied Biochemistry and Biotechnology*, **1999**, 82, 27-36 3.2
- 2 Influence of *Cynara cardunculus* L. Phenolic Compounds on *Pseudomonas putida* Isolated from the Dairy Industry: Growth and Melanin Bioproduction. *Applied Sciences (Switzerland)*, **2022**, 12, 3629 2.6
- 1 Hydroxycinnamic acid derivatives effect on hypercholesterolemia, comparison with ezetimibe: Permeability assays and FTIR spectroscopy on Caco-2 cell line.. *Current Research in Pharmacology and Drug Discovery*, **2022**, 3, 100105 3