

# Hugo M. Santos

## 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.

98 papers	1,650 citations	21 h-index	35 g-index
120 ext. papers	1,846 ext. citations	5 avg, IF	4.47 L-index

#	Paper	IF	Citations
98	Development of Cyanine 813@Imidazole-Based Doped Supported Devices for Divalent Metal Ions Detection. <i>Chemosensors</i> , <b>2022</b> , 10, 80	4	0
97	Absolute quantitative proteomics using the total protein approach to identify novel clinical immunohistochemical markers in renal neoplasms. <i>BMC Medicine</i> , <b>2021</b> , 19, 196	11.4	1
96	The role of methyl jasmonate in enhancing biomass yields and bioactive metabolites in <i>Stauroneis</i> sp. (Bacillariophyceae) revealed by proteome and biochemical profiling. <i>Journal of Proteomics</i> , <b>2021</b> , 249, 104381	3.9	1
95	Study and Preparation of Multifunctional Poly(L-Lysine)@Hyaluronic Acid Nanopolyplexes for the Effective Delivery of Tumor Suppressive MiR-34a into Triple-Negative Breast Cancer Cells. <i>Materials</i> , <b>2020</b> , 13,	3.5	2
94	Ultrasonic-Based Filter Aided Sample Preparation as the General Method to Sample Preparation in Proteomics. <i>Analytical Chemistry</i> , <b>2020</b> , 92, 9164-9171	7.8	7
93	Copper Complexes with 1,10-Phenanthroline Derivatives: Underlying Factors Affecting Their Cytotoxicity. <i>Inorganic Chemistry</i> , <b>2020</b> , 59, 9116-9134	5.1	23
92	Multimiomics Substrates of Resistance to Emerging Pathogens? Transcriptome and Proteome Profile of a Vancomycin-Resistant Clinical Strain. <i>OMICS A Journal of Integrative Biology</i> , <b>2020</b> , 24, 81-95	3.8	2
91	Label-free quantitative mass spectrometry from formalin-fixed paraffin-embedded samples of nasopharyngeal carcinoma: Preliminary results from a non-endemic European cohort of patients. <i>Reports of Practical Oncology and Radiotherapy</i> , <b>2020</b> , 25, 746-753	1.5	1
90	Ultrasonic-assisted extraction and digestion of proteins from solid biopsies followed by peptide sequential extraction hyphenated to MALDI-based profiling holds the promise of distinguishing renal oncocytoma from chromophobe renal cell carcinoma. <i>Talanta</i> , <b>2020</b> , 206, 120180	6.2	3
89	Identification of genomic loci associated with genotypic and phenotypic variation among <i>Pseudomonas aeruginosa</i> clinical isolates from pneumonia. <i>Microbial Pathogenesis</i> , <b>2019</b> , 136, 103702	3.8	0
88	Snap-heated freeze-free preservation and processing of the urine proteome using the combination of stabilizer-based technology and filter aided sample preparation. <i>Analytica Chimica Acta</i> , <b>2019</b> , 1076, 82-90	6.6	4
87	Development of a Robust Ultrasonic-Based Sample Treatment To Unravel the Proteome of OCT-Embedded Solid Tumor Biopsies. <i>Journal of Proteome Research</i> , <b>2019</b> , 18, 2979-2986	5.6	5
86	Multimiomics Assessment of Gene Expression in a Clinical Strain of CTX-M-15-Producing ST131. <i>Frontiers in Microbiology</i> , <b>2019</b> , 10, 831	5.7	3
85	Proteomic changes driven by urban pollution suggest particulate matter as a deregulator of energy metabolism, mitochondrial activity, and oxidative pathways in the rat brain. <i>Science of the Total Environment</i> , <b>2019</b> , 687, 839-848	10.2	13
84	Label-free protein quantification after ultrafast digestion of complex proteomes using ultrasonic energy and immobilized-trypsin magnetic nanoparticles. <i>Talanta</i> , <b>2019</b> , 196, 262-270	6.2	8
83	New dual colorimetric/fluorimetric probes for Hg <sup>2+</sup> detection & extraction based on mesoporous SBA-16 nanoparticles containing porphyrin or rhodamine chromophores. <i>Dyes and Pigments</i> , <b>2019</b> , 161, 427-437	4.6	15
82	Sustainable synthesis of luminescent CdTe quantum dots coated with modified silica mesoporous nanoparticles: Towards new protein scavengers and smart drug delivery carriers. <i>Dyes and Pigments</i> , <b>2019</b> , 161, 360-369	4.6	28

81	Modulating the protein content of complex proteomes using acetonitrile. <i>Talanta</i> , <b>2018</b> , 182, 333-339	6.2	2
80	Green and Red Fluorescent Dyes for Translational Applications in Imaging and Sensing Analytes: A Dual-Color Flag. <i>ChemistryOpen</i> , <b>2018</b> , 7, 3	2.3	7
79	Foreword ultrasonics 2016 special issue. <i>Ultrasonics</i> , <b>2018</b> , 83, 1-2	3.5	
78	Binding of vanadium to human serum transferrin - voltammetric and spectrometric studies. <i>Journal of Inorganic Biochemistry</i> , <b>2018</b> , 180, 211-221	4.2	19
77	Ultrasonic-based membrane aided sample preparation of urine proteomes. <i>Talanta</i> , <b>2018</b> , 178, 864-869	6.2	9
76	Designing Eu-Bdiketonate complexes as a support of ionic liquid crystals (ILCs) with additional luminescent properties. <i>Dyes and Pigments</i> , <b>2018</b> , 159, 395-405	4.6	12
75	Synthesis of Gold Functionalised Nanoparticles with the Eranthis hyemalis Lectin and Preliminary Toxicological Studies on Caenorhabditis elegans. <i>Materials</i> , <b>2018</b> , 11,	3.5	6
74	Dithiothreitol-based protein equalization technology to unravel biomarkers for bladder cancer. <i>Talanta</i> , <b>2018</b> , 180, 36-46	6.2	3
73	S2P: A software tool to quickly carry out reproducible biomedical research projects involving 2D-gel and MALDI-TOF MS protein data. <i>Computer Methods and Programs in Biomedicine</i> , <b>2018</b> , 155, 1-9	6.9	4
72	Green and Red Fluorescent Dyes for Translational Applications in Imaging and Sensing Analytes: A Dual-Color Flag. <i>ChemistryOpen</i> , <b>2018</b> , 7, 9-52	2.3	44
71	Unparalleled sample treatment throughput for proteomics workflows relying on ultrasonic energy. <i>Talanta</i> , <b>2018</b> , 178, 1067-1076	6.2	5
70	Unravelling the nutriproteomics of chickpea ( <i>Cicer arietinum</i> ) seeds. <i>Crop and Pasture Science</i> , <b>2017</b> , 68, 1041	2.2	5
69	Evaluation of the binding of four anti-tumor Casiopeínas to human serum albumin. <i>Journal of Inorganic Biochemistry</i> , <b>2017</b> , 175, 284-297	4.2	22
68	Interaction of [V O(acac) ] with Human Serum Transferrin and Albumin. <i>Chemistry - an Asian Journal</i> , <b>2017</b> , 12, 2062-2084	4.5	31
67	A methodological approach based on gold-nanoparticles followed by matrix assisted laser desorption ionization time of flight mass spectrometry for the analysis of urine profiling of knee osteoarthritis. <i>Talanta</i> , <b>2016</b> , 150, 638-45	6.2	8
66	An overview on sensing materials depending on the electromagnetic spectra region applied. <i>Dyes and Pigments</i> , <b>2016</b> , 135, 3-25	4.6	4
65	Proteomics for Drug Resistance on the Food Chain? Multidrug-Resistant Escherichia coli Proteomes from Slaughtered Pigs. <i>OMICS A Journal of Integrative Biology</i> , <b>2016</b> , 20, 362-74	3.8	9
64	A cost-effective method to get insight into the peritoneal dialysate effluent proteome. <i>Journal of Proteomics</i> , <b>2016</b> , 145, 207-213	3.9	14

63	The confidence of blue: A new highly selective bio-inspired coumarin emissive probe for fluoride recognition. <i>Dyes and Pigments</i> , <b>2016</b> , 135, 177-183	4.6	9
62	Testing the variability of PSA expression by different human prostate cancer cell lines by means of a new potentiometric device employing molecularly antibody assembled on graphene surface. <i>Materials Science and Engineering C</i> , <b>2016</b> , 59, 1069-1078	8.3	14
61	Unraveling the Organotellurium Chemistry Applied to the Synthesis of Gold Nanomaterials. <i>ACS Omega</i> , <b>2016</b> , 1, 1314-1325	3.9	5
60	Classifying patients in peritoneal dialysis by mass spectrometry-based profiling. <i>Talanta</i> , <b>2016</b> , 152, 364-370	7.0	11
59	Could transformation mechanisms of acetylase-harboring pMdT1 plasmid be evaluated through proteomic tools in <i>Escherichia coli</i> ?. <i>Journal of Proteomics</i> , <b>2016</b> , 145, 103-111	3.9	
58	Combined proteomic and metallomic analyses in <i>Scrobicularia plana</i> clams to assess environmental pollution of estuarine ecosystems. <i>Marine Pollution Bulletin</i> , <b>2016</b> , 113, 117-124	6.7	9
57	Study of Multiporphyrin Compounds as Colorimetric Sighting-Atop Metal Complexes: Synthesis and Photophysical Studies. <i>ChemPlusChem</i> , <b>2016</b> , 81, 143-153	2.8	7
56	Novel nanocomposites based on a strawberry-like gold-coated magnetite (Fe@Au) for protein separation in multiple myeloma serum samples. <i>Nano Research</i> , <b>2015</b> , 8, 1189-1198	10	28
55	Use of MALDI-TOF mass spectrometry fingerprinting to characterize <i>Enterococcus</i> spp. and <i>Escherichia coli</i> isolates. <i>Journal of Proteomics</i> , <b>2015</b> , 127, 321-31	3.9	26
54	Matrix-assisted laser desorption/ionization time-of-flight mass spectrometry-based profiling as a step forward in the characterization of peritoneal dialysis effluent. <i>Analytical Methods</i> , <b>2015</b> , 7, 7467-7473	3.2	10
53	Effect of vancomycin on the proteome of the multiresistant <i>Enterococcus faecium</i> SU18 strain. <i>Journal of Proteomics</i> , <b>2015</b> , 113, 378-87	3.9	20
52	Mass-Up: an all-in-one open software application for MALDI-TOF mass spectrometry knowledge discovery. <i>BMC Bioinformatics</i> , <b>2015</b> , 16, 318	3.6	68
51	Untangling interactions of a zinc(II) complex containing a coumarin-porphyrin unit with alkaloids in water solutions: a photophysical study. <i>Photochemical and Photobiological Sciences</i> , <b>2015</b> , 14, 757-64	4.2	8
50	Revisiting the use of gold and silver functionalised nanoparticles as colorimetric and fluorometric chemosensors for metal ions. <i>Sensors and Actuators B: Chemical</i> , <b>2015</b> , 212, 297-328	8.5	104
49	A journey through PROTEOSONICS. <i>Talanta</i> , <b>2014</b> , 121, 71-80	6.2	8
48	Rhodamine-Appended Bipyridine: XOR and OR Logic Operations Integrated in an Example of Controlled Metal Migration. <i>ChemistryOpen</i> , <b>2014</b> , 3, 190-8	2.3	6
47	A mesofluidic platform integrating on-chip probe ultrasonication for multiple sample pretreatment involving denaturation, reduction, and digestion in protein identification assays by mass spectrometry. <i>Analyst</i> , <b>2014</b> , 139, 992-5	5	3
46	Bioinspired Functionalized Nanoparticles as Tools for Detection, Quantification and Targeting of Biomolecules <b>2014</b> , 391-424		

45	Proteomics analysis of the peritoneal dialysate effluent reveals the presence of calcium-regulation proteins and acute inflammatory response. <i>Clinical Proteomics</i> , <b>2014</b> , 11, 17	5	21
44	A comprehensive factorial design study of variables affecting protein extraction from formalin-fixed kidney tissue samples. <i>Talanta</i> , <b>2014</b> , 119, 90-7	6.2	12
43	From visible to far-red excitable chromophores derivatives of vitamin B6. Evaluation as pH-responsive probes and solvatochromic study. <i>Dyes and Pigments</i> , <b>2014</b> , 110, 219-226	4.6	14
42	Complete proteome of a quinolone-resistant Salmonella Typhimurium phage type DT104B clinical strain. <i>International Journal of Molecular Sciences</i> , <b>2014</b> , 15, 14191-219	6.3	12
41	A Workflow for the Application of Biclustering to Mass Spectrometry Data. <i>Advances in Intelligent Systems and Computing</i> , <b>2013</b> , 145-153	0.4	2
40	An assessment of the indirect high intensity ultrasonic assisted cleavage of complex proteomes with immobilized trypsin. <i>Talanta</i> , <b>2013</b> , 106, 163-8	6.2	4
39	On-target ultrasonic digestion of proteins. <i>Proteomics</i> , <b>2013</b> , 13, 1423-7	4.8	13
38	Synthesis of functionalized fluorescent silver nanoparticles and their toxicological effect in aquatic environments (Goldfish) and HEPG2 cells. <i>Frontiers in Chemistry</i> , <b>2013</b> , 1, 29	5	12
37	Fast human serum profiling through chemical depletion coupled to gold-nanoparticle-assisted protein separation. <i>Talanta</i> , <b>2012</b> , 100, 239-45	6.2	27
36	Direct matrix assisted laser desorption ionization mass spectrometry-based analysis of wine as a powerful tool for classification purposes. <i>Talanta</i> , <b>2012</b> , 91, 72-6	6.2	19
35	Probe-based chemical modulations of tissues for IMS. <i>Journal of Proteomics</i> , <b>2012</b> , 75, 4921-4930	3.9	3
34	Isotopic labelling of peptides in tissues enhances mass spectrometric profiling. <i>Rapid Communications in Mass Spectrometry</i> , <b>2012</b> , 26, 254-62	2.2	5
33	New emissive dopamine derivatives as fluorescent chemosensors for metal ions: A CHEF effect for Al(III) interaction. <i>Inorganica Chimica Acta</i> , <b>2012</b> , 381, 203-211	2.7	32
32	From colorimetric chemosensors to metal nanoparticles using two new tyrosine Schiff-base ligands for Cu <sup>2+</sup> detection. <i>Inorganica Chimica Acta</i> , <b>2012</b> , 380, 22-30	2.7	17
31	Ultrasonic energy as a tool to overcome some drawbacks in the determination of lead in brain tissue and urine of rats. <i>Talanta</i> , <b>2011</b> , 86, 442-6	6.2	5
30	Rapid development of proteomic applications with the AIBench framework. <i>Journal of Integrative Bioinformatics</i> , <b>2011</b> , 8, 16-30	3.8	5
29	Novel versatile imine-amine chemosensor based on 6-nitro-4-oxo-4H-chromene for ion detection in solution, solid and gas-phase: synthesis, emission, computational and MALDI-TOF-MS studies. <i>Tetrahedron</i> , <b>2011</b> , 67, 326-333	2.4	12
28	An assessment of the ultrasonic probe-based enhancement of protein cleavage with immobilized trypsin. <i>Proteomics</i> , <b>2011</b> , 11, 3866-76	4.8	15

27	A comparison of depletion versus equalization for reducing high-abundance proteins in human serum. <i>Electrophoresis</i> , <b>2011</b> , 32, 2966-74	3.6	48
26	Building Proteomics Applications with the AIBench Application Framework. <i>Advances in Intelligent and Soft Computing</i> , <b>2011</b> , 99-107		2
25	Latest developments in sample treatment for <sup>18</sup> O-isotopic labeling for proteomics mass spectrometry-based approaches: a critical review. <i>Talanta</i> , <b>2010</b> , 80, 1476-86	6.2	40
24	Ultrasonic multiprobe as a new tool to overcome the bottleneck of throughput in workflows for protein identification relaying on ultrasonic energy. <i>Talanta</i> , <b>2010</b> , 81, 55-62	6.2	7
23	Development of a fast and efficient ultrasonic-based strategy for DNA fragmentation. <i>Talanta</i> , <b>2010</b> , 81, 881-6	6.2	17
22	Decision peptide-driven: a free software tool for accurate protein quantification using gel electrophoresis and matrix assisted laser desorption ionization time of flight mass spectrometry. <i>Talanta</i> , <b>2010</b> , 82, 1412-20	6.2	10
21	Light and colour as analytical detection tools: a journey into the periodic table using polyamines to bio-inspired systems as chemosensors. <i>Chemical Society Reviews</i> , <b>2010</b> , 39, 2948-76	58.5	179
20	A novel ( <sup>18</sup> O) inverse labeling-based workflow for accurate bottom-up mass spectrometry quantification of proteins separated by gel electrophoresis. <i>Electrophoresis</i> , <b>2010</b> , 31, 3407-19	3.6	9
19	Analytical proteomics: an emerging field?. <i>Journal of Proteomics</i> , <b>2010</b> , 73, 1411-4	3.9	4
18	Multi-agent System for Mass Spectrometry Analysis. <i>Advances in Intelligent and Soft Computing</i> , <b>2010</b> , 87-95		
17	Toxicokinetics of waterborne trivalent arsenic in the freshwater bivalve <i>Corbicula fluminea</i> . <i>Archives of Environmental Contamination and Toxicology</i> , <b>2009</b> , 57, 338-47	3.2	16
16	A new tripodal poly-imine indole-containing ligand: Synthesis, complexation, spectroscopic and theoretical studies. <i>Inorganica Chimica Acta</i> , <b>2009</b> , 362, 2627-2635	2.7	25
15	Exploiting anionic and cationic interactions with a new emissive imine-based Baphthol molecular probe. <i>Inorganic Chemistry Communication</i> , <b>2009</b> , 12, 905-912	3.1	15
14	New chemosensors based on thiomacrocyclic-containing coumarin-343 fluoroionophore: X-ray structures and previous results on the effect of cation binding on the photophysical properties. <i>Inorganic Chemistry Communication</i> , <b>2009</b> , 12, 1128-1134	3.1	8
13	Overview on modern approaches to speed up protein identification workflows relying on enzymatic cleavage and mass spectrometry-based techniques. <i>Analytica Chimica Acta</i> , <b>2009</b> , 650, 151-9	6.6	81
12	An improved clean sonoreactor-based method for protein identification by mass spectrometry-based techniques. <i>Talanta</i> , <b>2008</b> , 77, 870-875	6.2	20
11	Effects of exposure to arsenic in <i>Corbicula fluminea</i> : Evaluation of the histological, histochemical and biochemical responses. <i>Ciencias Marinas</i> , <b>2008</b> , 34, 307-316	1.7	4
10	Improving sample treatment for in-solution protein identification by peptide mass fingerprint using matrix-assisted laser desorption/ionization time-of-flight mass spectrometry. <i>Journal of Proteome Research</i> , <b>2007</b> , 6, 3393-9	5.6	24

9	Sensing metal ions with two new azomethineethiophene pincer ligands (NSN): Fluorescence and MALDI-TOF-MS applications. <i>Inorganic Chemistry Communication</i> , <b>2007</b> , 10, 925-929	3.1	22
8	Ultrasonic assisted protein enzymatic digestion for fast protein identification by matrix-assisted laser desorption/ionization time-of-flight mass spectrometry. Sonoreactor versus ultrasonic probe. <i>Journal of Chromatography A</i> , <b>2007</b> , 1166, 101-7	4.5	51
7	Toxicological effects and bioaccumulation in the freshwater clam ( <i>Corbicula fluminea</i> ) following exposure to trivalent arsenic. <i>Environmental Toxicology</i> , <b>2007</b> , 22, 502-9	4.2	14
6	Can sample treatments based on advanced oxidation processes assisted by high-intensity focused ultrasound be used for toxic arsenic determination in human urine by flow-injection hydride-generation atomic absorption spectrometry?. <i>Talanta</i> , <b>2007</b> , 72, 968-75	6.2	2
5	Trends in ultrasonic-based equipment for analytical sample treatment. <i>Talanta</i> , <b>2007</b> , 73, 795-802	6.2	96
4	Metallothionein responses in the Asiatic clam ( <i>Corbicula fluminea</i> ) after exposure to trivalent arsenic. <i>Biomarkers</i> , <b>2007</b> , 12, 589-98	2.6	16
3	Ultrasonic Energy as a Tool for Sample Treatment for the Analysis of Elements and Elemental Speciation17-54	1	
2	The Power of Ultrasound1-16		30
1	Power Ultrasound Meets Proteomics107-127		9