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List of Publications by Citations

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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	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> , 2010 , 39, 2948-76	58.5	179
97	Revisiting the use of gold and silver functionalised nanoparticles as colorimetric and fluorometric chemosensors for metal ions. <i>Sensors and Actuators B: Chemical</i> , 2015 , 212, 297-328	8.5	104
96	Trends in ultrasonic-based equipment for analytical sample treatment. <i>Talanta</i> , 2007 , 73, 795-802	6.2	96
95	Overview on modern approaches to speed up protein identification workflows relying on enzymatic cleavage and mass spectrometry-based techniques. <i>Analytica Chimica Acta</i> , 2009 , 650, 151-9	6.6	81
94	Mass-Up: an all-in-one open software application for MALDI-TOF mass spectrometry knowledge discovery. <i>BMC Bioinformatics</i> , 2015 , 16, 318	3.6	68
93	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> , 2007 , 1166, 101-7	4.5	51
92	A comparison of depletion versus equalization for reducing high-abundance proteins in human serum. <i>Electrophoresis</i> , 2011 , 32, 2966-74	3.6	48
91	Green and Red Fluorescent Dyes for Translational Applications in Imaging and Sensing Analytes: A Dual-Color Flag. <i>ChemistryOpen</i> , 2018 , 7, 9-52	2.3	44
90	Latest developments in sample treatment for 18O-isotopic labeling for proteomics mass spectrometry-based approaches: a critical review. <i>Talanta</i> , 2010 , 80, 1476-86	6.2	40
89	New emissive dopamine derivatives as fluorescent chemosensors for metal ions: A CHEF effect for Al(III) interaction. <i>Inorganica Chimica Acta</i> , 2012 , 381, 203-211	2.7	32
88	Interaction of [V O(acac)] with Human Serum Transferrin and Albumin. <i>Chemistry - an Asian Journal</i> , 2017 , 12, 2062-2084	4.5	31
87	The Power of Ultrasound1-16		30
86	Novel nanocomposites based on a strawberry-like gold-coated magnetite (Fe@Au) for protein separation in multiple myeloma serum samples. <i>Nano Research</i> , 2015 , 8, 1189-1198	10	28
85	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> , 2019 , 161, 360-369	4.6	28
84	Fast human serum profiling through chemical depletion coupled to gold-nanoparticle-assisted protein separation. <i>Talanta</i> , 2012 , 100, 239-45	6.2	27
83	Use of MALDI-TOF mass spectrometry fingerprinting to characterize <i>Enterococcus</i> spp. and <i>Escherichia coli</i> isolates. <i>Journal of Proteomics</i> , 2015 , 127, 321-31	3.9	26
82	A new tripodal poly-imine indole-containing ligand: Synthesis, complexation, spectroscopic and theoretical studies. <i>Inorganica Chimica Acta</i> , 2009 , 362, 2627-2635	2.7	25

81	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> , 2007 , 6, 3393-9	5.6	24
80	Copper Complexes with 1,10-Phenanthroline Derivatives: Underlying Factors Affecting Their Cytotoxicity. <i>Inorganic Chemistry</i> , 2020 , 59, 9116-9134	5.1	23
79	Evaluation of the binding of four anti-tumor Casiopeínas to human serum albumin. <i>Journal of Inorganic Biochemistry</i> , 2017 , 175, 284-297	4.2	22
78	Sensing metal ions with two new azomethine-thiophene pincer ligands (NSN): Fluorescence and MALDI-TOF-MS applications. <i>Inorganic Chemistry Communication</i> , 2007 , 10, 925-929	3.1	22
77	Proteomics analysis of the peritoneal dialysate effluent reveals the presence of calcium-regulation proteins and acute inflammatory response. <i>Clinical Proteomics</i> , 2014 , 11, 17	5	21
76	Effect of vancomycin on the proteome of the multiresistant <i>Enterococcus faecium</i> SU18 strain. <i>Journal of Proteomics</i> , 2015 , 113, 378-87	3.9	20
75	An improved clean sonoreactor-based method for protein identification by mass spectrometry-based techniques. <i>Talanta</i> , 2008 , 77, 870-875	6.2	20
74	Binding of vanadium to human serum transferrin - voltammetric and spectrometric studies. <i>Journal of Inorganic Biochemistry</i> , 2018 , 180, 211-221	4.2	19
73	Direct matrix assisted laser desorption ionization mass spectrometry-based analysis of wine as a powerful tool for classification purposes. <i>Talanta</i> , 2012 , 91, 72-6	6.2	19
72	From colorimetric chemosensors to metal nanoparticles using two new tyrosine Schiff-base ligands for Cu ²⁺ detection. <i>Inorganica Chimica Acta</i> , 2012 , 380, 22-30	2.7	17
71	Development of a fast and efficient ultrasonic-based strategy for DNA fragmentation. <i>Talanta</i> , 2010 , 81, 881-6	6.2	17
70	Toxicokinetics of waterborne trivalent arsenic in the freshwater bivalve <i>Corbicula fluminea</i> . <i>Archives of Environmental Contamination and Toxicology</i> , 2009 , 57, 338-47	3.2	16
69	Metallothionein responses in the Asiatic clam (<i>Corbicula fluminea</i>) after exposure to trivalent arsenic. <i>Biomarkers</i> , 2007 , 12, 589-98	2.6	16
68	An assessment of the ultrasonic probe-based enhancement of protein cleavage with immobilized trypsin. <i>Proteomics</i> , 2011 , 11, 3866-76	4.8	15
67	Exploiting anionic and cationic interactions with a new emissive imine-based thapthol molecular probe. <i>Inorganic Chemistry Communication</i> , 2009 , 12, 905-912	3.1	15
66	New dual colorimetric/fluorimetric probes for Hg ²⁺ detection & extraction based on mesoporous SBA-16 nanoparticles containing porphyrin or rhodamine chromophores. <i>Dyes and Pigments</i> , 2019 , 161, 427-437	4.6	15
65	A cost-effective method to get insight into the peritoneal dialysate effluent proteome. <i>Journal of Proteomics</i> , 2016 , 145, 207-213	3.9	14
64	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> , 2016 , 59, 1069-1078	8.3	14

63	From visible to far-red excitable chromophores derivatives of vitamin B6. Evaluation as pH-responsive probes and solvatochromic study. <i>Dyes and Pigments</i> , 2014 , 110, 219-226	4.6	14
62	Toxicological effects and bioaccumulation in the freshwater clam (<i>Corbicula fluminea</i>) following exposure to trivalent arsenic. <i>Environmental Toxicology</i> , 2007 , 22, 502-9	4.2	14
61	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> , 2019 , 687, 839-848	10.2	13
60	On-target ultrasonic digestion of proteins. <i>Proteomics</i> , 2013 , 13, 1423-7	4.8	13
59	Designing Eu-Bdiketonate complexes as a support of ionic liquid crystals (ILCs) with additional luminescent properties. <i>Dyes and Pigments</i> , 2018 , 159, 395-405	4.6	12
58	A comprehensive factorial design study of variables affecting protein extraction from formalin-fixed kidney tissue samples. <i>Talanta</i> , 2014 , 119, 90-7	6.2	12
57	Complete proteome of a quinolone-resistant <i>Salmonella</i> Typhimurium phage type DT104B clinical strain. <i>International Journal of Molecular Sciences</i> , 2014 , 15, 14191-219	6.3	12
56	Synthesis of functionalized fluorescent silver nanoparticles and their toxicological effect in aquatic environments (Goldfish) and HEPG2 cells. <i>Frontiers in Chemistry</i> , 2013 , 1, 29	5	12
55	Novel versatile imine-Bnamine 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> , 2011 , 67, 326-333	2.4	12
54	Classifying patients in peritoneal dialysis by mass spectrometry-based profiling. <i>Talanta</i> , 2016 , 152, 364-70	7.0	11
53	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> , 2015 , 7, 7467-7473	7.2	10
52	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> , 2010 , 82, 1412-20	6.2	10
51	Ultrasonic-based membrane aided sample preparation of urine proteomes. <i>Talanta</i> , 2018 , 178, 864-869	6.2	9
50	Proteomics for Drug Resistance on the Food Chain? Multidrug-Resistant <i>Escherichia coli</i> Proteomes from Slaughtered Pigs. <i>OMICS A Journal of Integrative Biology</i> , 2016 , 20, 362-74	3.8	9
49	The confidence of blue: A new highly selective bio-inspired coumarin emissive probe for fluoride recognition. <i>Dyes and Pigments</i> , 2016 , 135, 177-183	4.6	9
48	A novel (18)O inverse labeling-based workflow for accurate bottom-up mass spectrometry quantification of proteins separated by gel electrophoresis. <i>Electrophoresis</i> , 2010 , 31, 3407-19	3.6	9
47	Combined proteomic and metallomic analyses in <i>Scrobicularia plana</i> clams to assess environmental pollution of estuarine ecosystems. <i>Marine Pollution Bulletin</i> , 2016 , 113, 117-124	6.7	9
46	Power Ultrasound Meets Proteomics		9

45	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> , 2016 , 150, 638-45	6.2	8
44	A journey through PROTEOSONICS. <i>Talanta</i> , 2014 , 121, 71-80	6.2	8
43	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> , 2015 , 14, 757-64	4.2	8
42	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> , 2009 , 12, 1128-1134	3.1	8
41	Label-free protein quantification after ultrafast digestion of complex proteomes using ultrasonic energy and immobilized-trypsin magnetic nanoparticles. <i>Talanta</i> , 2019 , 196, 262-270	6.2	8
40	Ultrasonic-Based Filter Aided Sample Preparation as the General Method to Sample Preparation in Proteomics. <i>Analytical Chemistry</i> , 2020 , 92, 9164-9171	7.8	7
39	Green and Red Fluorescent Dyes for Translational Applications in Imaging and Sensing Analytes: A Dual-Color Flag. <i>ChemistryOpen</i> , 2018 , 7, 3	2.3	7
38	Ultrasonic multiprobe as a new tool to overcome the bottleneck of throughput in workflows for protein identification relying on ultrasonic energy. <i>Talanta</i> , 2010 , 81, 55-62	6.2	7
37	Study of Multiporphyrin Compounds as Colorimetric Sensitive Metal Complexes: Synthesis and Photophysical Studies. <i>ChemPlusChem</i> , 2016 , 81, 143-153	2.8	7
36	Synthesis of Gold Functionalised Nanoparticles with the Eranthis hyemalis Lectin and Preliminary Toxicological Studies on Caenorhabditis elegans. <i>Materials</i> , 2018 , 11,	3.5	6
35	Rhodamine-Appended Bipyridine: XOR and OR Logic Operations Integrated in an Example of Controlled Metal Migration. <i>ChemistryOpen</i> , 2014 , 3, 190-8	2.3	6
34	Development of a Robust Ultrasonic-Based Sample Treatment To Unravel the Proteome of OCT-Embedded Solid Tumor Biopsies. <i>Journal of Proteome Research</i> , 2019 , 18, 2979-2986	5.6	5
33	Unravelling the nutriproteomics of chickpea (Cicer arietinum) seeds. <i>Crop and Pasture Science</i> , 2017 , 68, 1041	2.2	5
32	Isotopic labelling of peptides in tissues enhances mass spectrometric profiling. <i>Rapid Communications in Mass Spectrometry</i> , 2012 , 26, 254-62	2.2	5
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> , 2011 , 86, 442-6	6.2	5
30	Rapid development of proteomic applications with the AIBench framework. <i>Journal of Integrative Bioinformatics</i> , 2011 , 8, 16-30	3.8	5
29	Unraveling the Organotellurium Chemistry Applied to the Synthesis of Gold Nanomaterials. <i>ACS Omega</i> , 2016 , 1, 1314-1325	3.9	5
28	Unparalleled sample treatment throughput for proteomics workflows relying on ultrasonic energy. <i>Talanta</i> , 2018 , 178, 1067-1076	6.2	5

27	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> , 2019 , 1076, 82-90	6.6	4
26	An overview on sensing materials depending on the electromagnetic spectra region applied. <i>Dyes and Pigments</i> , 2016 , 135, 3-25	4.6	4
25	An assessment of the indirect high intensity ultrasonic assisted cleavage of complex proteomes with immobilized trypsin. <i>Talanta</i> , 2013 , 106, 163-8	6.2	4
24	Analytical proteomics: an emerging field?. <i>Journal of Proteomics</i> , 2010 , 73, 1411-4	3.9	4
23	Effects of exposure to arsenic in Corbicula fluminea: Evaluation of the histological, histochemical and biochemical responses. <i>Ciencias Marinas</i> , 2008 , 34, 307-316	1.7	4
22	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> , 2018 , 155, 1-9	6.9	4
21	Multomics Assessment of Gene Expression in a Clinical Strain of CTX-M-15-Producing ST131. <i>Frontiers in Microbiology</i> , 2019 , 10, 831	5.7	3
20	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, The</i> , 2014 , 139, 992-5	5	3
19	Probe-based chemical modulations of tissues for IMS. <i>Journal of Proteomics</i> , 2012 , 75, 4921-4930	3.9	3
18	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> , 2020 , 206, 120180	6.2	3
17	Dithiothreitol-based protein equalization technology to unravel biomarkers for bladder cancer. <i>Talanta</i> , 2018 , 180, 36-46	6.2	3
16	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> , 2020 , 13,	3.5	2
15	Multomics Substrates of Resistance to Emerging Pathogens? Transcriptome and Proteome Profile of a Vancomycin-Resistant Clinical Strain. <i>OMICS A Journal of Integrative Biology</i> , 2020 , 24, 81-95	3.8	2
14	Modulating the protein content of complex proteomes using acetonitrile. <i>Talanta</i> , 2018 , 182, 333-339	6.2	2
13	A Workflow for the Application of Biclustering to Mass Spectrometry Data. <i>Advances in Intelligent Systems and Computing</i> , 2013 , 145-153	0.4	2
12	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> , 2007 , 72, 968-75	6.2	2
11	Building Proteomics Applications with the AIBench Application Framework. <i>Advances in Intelligent and Soft Computing</i> , 2011 , 99-107		2
10	Ultrasonic Energy as a Tool for Sample Treatment for the Analysis of Elements and Elemental Speciation	17-54	1

9	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> , 2020 , 25, 746-753	1.5	1
8	Absolute quantitative proteomics using the total protein approach to identify novel clinical immunohistochemical markers in renal neoplasms. <i>BMC Medicine</i> , 2021 , 19, 196	11.4	1
7	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> , 2021 , 249, 104381	3.9	1
6	Identification of genomic loci associated with genotypic and phenotypic variation among <i>Pseudomonas aeruginosa</i> clinical isolates from pneumonia. <i>Microbial Pathogenesis</i> , 2019 , 136, 103702	3.8	0
5	Development of Cyanine 813@Imidazole-Based Doped Supported Devices for Divalent Metal Ions Detection. <i>Chemosensors</i> , 2022 , 10, 80	4	0
4	Foreword ultrasonics 2016 special issue. <i>Ultrasonics</i> , 2018 , 83, 1-2	3.5	
3	Bioinspired Functionalized Nanoparticles as Tools for Detection, Quantification and Targeting of Biomolecules 2014 , 391-424		
2	Multi-agent System for Mass Spectrometry Analysis. <i>Advances in Intelligent and Soft Computing</i> , 2010 , 87-95		
1	Could transformation mechanisms of acetylase-harboring pMdT1 plasmid be evaluated through proteomic tools in <i>Escherichia coli</i> ?. <i>Journal of Proteomics</i> , 2016 , 145, 103-111	3.9	