

Montserrat Carrascal

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.

83

papers

2,312

citations

30

h-index

45

g-index

85

ext. papers

2,609

ext. citations

5

avg, IF

4.37

L-index

#	Paper	IF	Citations
83	The defense response of germinating maize embryos against fungal infection: a proteomics approach. <i>Proteomics</i> , 2004 , 4, 383-96	4.8	137
82	Proteomics-based identification of novel <i>Candida albicans</i> antigens for diagnosis of systemic candidiasis in patients with underlying hematological malignancies. <i>Proteomics</i> , 2004 , 4, 3084-106	4.8	131
81	The biliverdin chromophore binds covalently to a conserved cysteine residue in the N-terminus of <i>Agrobacterium</i> phytochrome Agp1. <i>Biochemistry</i> , 2004 , 43, 3659-69	3.2	108
80	General statistical framework for quantitative proteomics by stable isotope labeling. <i>Journal of Proteome Research</i> , 2014 , 13, 1234-47	5.6	100
79	Roles of hnRNP A1, SR proteins, and p68 helicase in c-H-ras alternative splicing regulation. <i>Molecular and Cellular Biology</i> , 2003 , 23, 2927-41	4.8	100
78	rBAT-b(0,+)-AT heterodimer is the main apical reabsorption system for cystine in the kidney. <i>American Journal of Physiology - Renal Physiology</i> , 2002 , 283, F540-8	4.3	79
77	Diethylmaleate activates the transcription factor Pap1 by covalent modification of critical cysteine residues. <i>Molecular Microbiology</i> , 2002 , 45, 243-54	4.1	76
76	Phosphorylation analysis of primary human T lymphocytes using sequential IMAC and titanium oxide enrichment. <i>Journal of Proteome Research</i> , 2008 , 7, 5167-76	5.6	66
75	Isotope dilution mass spectrometry for absolute quantification in proteomics: concepts and strategies. <i>Journal of Proteomics</i> , 2014 , 96, 184-99	3.9	63
74	Electrospray ionization mass spectrometry of oligosaccharides derived from fucoidan of <i>Ascophyllum nodosum</i> . <i>Carbohydrate Research</i> , 2007 , 342, 826-34	2.9	58
73	Absolute and site-specific quantification of protein phosphorylation using integrated elemental and molecular mass spectrometry: its potential to assess phosphopeptide enrichment procedures. <i>Analytical Chemistry</i> , 2008 , 80, 1777-87	7.8	51
72	Proteomics in free-living <i>Mus spretus</i> to monitor terrestrial ecosystems. <i>Proteomics</i> , 2007 , 7, 4376-87	4.8	49
71	Characterization of the human plasma phosphoproteome using linear ion trap mass spectrometry and multiple search engines. <i>Journal of Proteome Research</i> , 2010 , 9, 876-84	5.6	48
70	Utility of proteomics to assess pollutant response of clams from the Doña bank of Guadalquivir Estuary (SW Spain). <i>Proteomics</i> , 2006 , 6 Suppl 1, S245-55	4.8	48
69	Light-induced conformational changes of cyanobacterial phytochrome Cph1 probed by limited proteolysis and autophosphorylation. <i>Biochemistry</i> , 2005 , 44, 450-61	3.2	45
68	Proteomic analysis of plasma from patients with systemic lupus erythematosus: increased presence of haptoglobin alpha2 polypeptide chains over the alpha1 isoforms. <i>Proteomics</i> , 2006 , 6 Suppl 1, S282-92	4.8	45
67	Cell viability and proteomic analysis in cultured neurons exposed to methylmercury. <i>Human and Experimental Toxicology</i> , 2007 , 26, 263-72	3.4	44

66	Thyroglobulin peptides associate in vivo to HLA-DR in autoimmune thyroid glands. <i>Journal of Immunology</i> , 2008 , 181, 795-807	5.3	43
65	Determination of protein markers in human serum: Analysis of protein expression in toxic oil syndrome studies. <i>Proteomics</i> , 2004 , 4, 303-15	4.8	41
64	Involvement of exosomes in lung inflammation associated with experimental acute pancreatitis. <i>Journal of Pathology</i> , 2016 , 240, 235-45	9.4	37
63	Guidelines for reporting quantitative mass spectrometry based experiments in proteomics. <i>Journal of Proteomics</i> , 2013 , 95, 84-8	3.9	37
62	Dissection of the HLA-DR4 peptide repertoire in endocrine epithelial cells: strong influence of invariant chain and HLA-DM expression on the nature of ligands. <i>Journal of Immunology</i> , 2004 , 173, 1085-93	5.3	37
61	Differential redox proteomics allows identification of proteins reversibly oxidized at cysteine residues in endothelial cells in response to acute hypoxia. <i>Journal of Proteomics</i> , 2012 , 75, 5449-62	3.9	35
60	Two-dimensional difference gel electrophoresis urinary proteomic profile in the search of nonimmune chronic allograft dysfunction biomarkers. <i>Transplantation</i> , 2010 , 89, 548-58	1.8	35
59	Methylmercury disrupts the balance between phosphorylated and non-phosphorylated cofilin in primary cultures of mice cerebellar granule cells. A proteomic study. <i>Toxicology and Applied Pharmacology</i> , 2010 , 242, 109-18	4.6	33
58	Secretome analysis of human mesenchymal stem cells undergoing chondrogenic differentiation. <i>Journal of Proteome Research</i> , 2014 , 13, 1045-54	5.6	32
57	Drosophila MTN: a metazoan copper-thionein related to fungal forms. <i>FEBS Letters</i> , 2000 , 467, 189-94	3.8	32
56	Composition of the HLA-DR-associated human thymus peptidome. <i>European Journal of Immunology</i> , 2013 , 43, 2273-82	6.1	31
55	Biochemical characterization of recombinant and circulating human Spalpha. <i>Tissue Antigens</i> , 2004 , 63, 335-44		31
54	The 2-oxoglutarate carrier promotes liver cancer by sustaining mitochondrial GSH despite cholesterol loading. <i>Redox Biology</i> , 2018 , 14, 164-177	11.3	30
53	Quantitative electrospray LC-MS and LC-MS/MS in biomedicine. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 1998 , 17, 1129-38	3.5	29
52	HLA-DR4 molecules in neuroendocrine epithelial cells associate to a heterogeneous repertoire of cytoplasmic and surface self peptides. <i>Journal of Immunology</i> , 2002 , 169, 5052-60	5.3	28
51	Differential expression of proteins from cultured endothelial cells exposed to uremic versus normal serum. <i>American Journal of Kidney Diseases</i> , 2008 , 51, 603-12	7.4	26
50	Determination of D-fagomine in buckwheat and mulberry by cation exchange HPLC/ESI-Q-MS. <i>Analytical and Bioanalytical Chemistry</i> , 2012 , 402, 1953-60	4.4	25
49	Increased CD38 expression in T cells and circulating anti-CD38 IgG autoantibodies differentially correlate with distinct cytokine profiles and disease activity in systemic lupus erythematosus patients. <i>Cytokine</i> , 2013 , 62, 232-43	4	25

48	Surfing transcriptomic landscapes. A step beyond the annotation of chromosome 16 proteome. <i>Journal of Proteome Research</i> , 2014 , 13, 158-72	5.6	24
47	Proteomic study of neuron and astrocyte cultures from senescence-accelerated mouse SAMP8 reveals degenerative changes. <i>Journal of Neurochemistry</i> , 2009 , 111, 945-55	6	23
46	Lipoprotein lipase is nitrated in vivo after lipopolysaccharide challenge. <i>Free Radical Biology and Medicine</i> , 2009 , 47, 1553-60	7.8	22
45	Characterization of peptides and proteins in commercial HSA solutions. <i>Proteomics</i> , 2010 , 10, 172-81	4.8	22
44	Central T cell tolerance: Identification of tissue-restricted autoantigens in the thymus HLA-DR peptidome. <i>Journal of Autoimmunity</i> , 2015 , 60, 12-9	15.5	19
43	A <i>Candida albicans</i> PeptideAtlas. <i>Journal of Proteomics</i> , 2014 , 97, 62-8	3.9	19
42	The presence of D-fagomine in the human diet from buckwheat-based foodstuffs. <i>Food Chemistry</i> , 2013 , 136, 1316-21	8.5	19
41	Increased expression and phosphorylation of the two S100A9 isoforms in mononuclear cells from patients with systemic lupus erythematosus: a proteomic signature for circulating low-density granulocytes. <i>Journal of Proteomics</i> , 2012 , 75, 1778-91	3.9	18
40	Non-aqueous capillary electrophoresis of the positional isomers of a sulfated monosaccharide. <i>Journal of Chromatography A</i> , 2003 , 987, 467-76	4.5	18
39	The phosphoproteome of human Jurkat T cell clones upon costimulation with anti-CD3/anti-CD28 antibodies. <i>Journal of Proteomics</i> , 2016 , 131, 190-198	3.9	16
38	Identification of p21Cip1 binding proteins by gel electrophoresis and capillary liquid chromatography microelectrospray tandem mass spectrometry. <i>Proteomics</i> , 2002 , 2, 455-68	4.8	16
37	Transcriptomic and proteomic analysis of liver and muscle alterations caused by surgical stress in rats. <i>Clinical Science</i> , 2005 , 108, 167-78	6.5	15
36	The effect of simvastatin on the proteome of detergent-resistant membrane domains: decreases of specific proteins previously related to cytoskeleton regulation, calcium homeostasis and cell fate. <i>Proteomics</i> , 2010 , 10, 1954-65	4.8	14
35	Urinary Proteome Analysis Identified Neprilysin and VCAM as Proteins Involved in Diabetic Nephropathy. <i>Journal of Diabetes Research</i> , 2018 , 2018, 6165303	3.9	14
34	Identification of the autoantigen HB as the barrier-to-autointegration factor. <i>Journal of Biological Chemistry</i> , 2003 , 278, 50641-4	5.4	13
33	LymPHOS: design of a phosphosite database of primary human T cells. <i>Proteomics</i> , 2009 , 9, 3741-51	4.8	12
32	Expression of differential antennal proteins in males and females of an important crop pest, <i>Sesamia nonagrioides</i> . <i>Insect Biochemistry and Molecular Biology</i> , 2009 , 39, 11-9	4.5	12
31	Peptides presented by HLA class I molecules in the human thymus. <i>Journal of Proteomics</i> , 2013 , 94, 23-36.9	36.9	11

30	A collection of open source applications for mass spectrometry data mining. <i>Proteomics</i> , 2014 , 14, 2275-28	11
29	UTP affects the Schwannoma cell line proteome through P2Y receptors leading to cytoskeletal reorganisation. <i>Proteomics</i> , 2012 , 12, 145-56	4.8 11
28	Large-Scale Filter-Aided Sample Preparation Method for the Analysis of the Ubiquitinome. <i>Analytical Chemistry</i> , 2017 , 89, 3840-3846	7.8 10
27	A Comparative Analysis of the Peptide Repertoires of HLA-DR Molecules Differentially Associated With Rheumatoid Arthritis. <i>Arthritis and Rheumatology</i> , 2016 , 68, 2412-21	9.5 10
26	Discovery of lipoprotein lipase pl isoforms and contributions to their characterization. <i>Journal of Proteomics</i> , 2009 , 72, 1031-9	3.9 10
25	A Comprehensive Tyrosine Phosphoproteomic Analysis Reveals Novel Components of the Platelet CLEC-2 Signaling Cascade. <i>Thrombosis and Haemostasis</i> , 2020 , 120, 262-276	7 10
24	LymphOS 2.0: an update of a phosphosite database of primary human T cells. <i>Database: the Journal of Biological Databases and Curation</i> , 2015 , 2015,	5 9
23	The Exposed Proteomes of <i>Brachyspira hyodysenteriae</i> and <i>B. pilosicoli</i> . <i>Frontiers in Microbiology</i> , 2016 , 7, 1103	5.7 9
22	A Combination of Proteomic Approaches Identifies A Panel of Circulating Extracellular Vesicle Proteins Related to the Risk of Suffering Cardiovascular Disease in Obese Patients. <i>Proteomics</i> , 2019 , 19, e1800248	4.8 9
21	Proteomic analysis of polypeptides captured from blood during extracorporeal albumin dialysis in patients with cholestasis and resistant pruritus. <i>PLoS ONE</i> , 2011 , 6, e21850	3.7 8
20	Mass spectrometric determination of the cleavage sites in <i>Escherichia coli</i> dihydroorotase induced by a cysteine-specific reagent. <i>Journal of Biological Chemistry</i> , 1997 , 272, 26934-9	5.4 8
19	A comprehensive <i>Candida albicans</i> PeptideAtlas build enables deep proteome coverage. <i>Journal of Proteomics</i> , 2016 , 131, 122-130	3.9 7
18	Analysis of the HLA class I associated peptide repertoire in a hepatocellular carcinoma cell line reveals tumor-specific peptides as putative targets for immunotherapy. <i>Proteomics - Clinical Applications</i> , 2007 , 1, 286-98	3.1 7
17	Identification of Promiscuous African Swine Fever Virus T-Cell Determinants Using a Multiple Technical Approach. <i>Vaccines</i> , 2021 , 9,	5.3 7
16	Application of proteomic tools to detect the nonspecificity of a polyclonal antibody against lipoprotein lipase. <i>Journal of Proteome Research</i> , 2008 , 7, 4173-7	5.6 6
15	Automated strong cation exchange extraction of fatty acid esters of 3-(N-phenylamino)-1,2-propanediol from oil samples for routine quantification by HPLC-APCI/MS/MS. <i>Journal of Agricultural and Food Chemistry</i> , 2001 , 49, 5085-91	5.7 6
14	Mitochondrial Proteome of Affected Glutamatergic Neurons in a Mouse Model of Leigh Syndrome. <i>Frontiers in Cell and Developmental Biology</i> , 2020 , 8, 660	5.7 6
13	and Proteins Recognized by Sera of Challenged Pigs. <i>Frontiers in Microbiology</i> , 2017 , 8, 723	5.7 4

12	Platelet membrane lipid rafts protein composition varies following GPVI and CLEC-2 receptors activation. <i>Journal of Proteomics</i> , 2019 , 195, 88-97	3.9	3
11	Manganese-induced neurotoxicity in cerebellar granule neurons due to perturbation of cell network pathways with potential implications for neurodegenerative disorders. <i>Metallomics</i> , 2020 , 12, 1656-1678	4.5	3
10	A multiplier peroxiporin signal transduction pathway powers piscine spermatozoa. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021 , 118,	11.5	3
9	Phosphoproteomic Analysis of Platelets in Severe Obesity Uncovers Platelet Reactivity and Signaling Pathways Alterations. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2021 , 41, 478-490	9.4	2
8	Lipoprotein lipase isoelectric point isoforms in humans. <i>Biochemical and Biophysical Research Communications</i> , 2014 , 445, 480-5	3.4	2
7	Capillary separations. <i>Methods in Molecular Biology</i> , 2004 , 251, 143-64	1.4	2
6	Inflammatory capacity of exosomes released in the early stages of acute pancreatitis predicts the severity of the disease. <i>Journal of Pathology</i> , 2021 ,	9.4	2
5	Quantitative Peptide Determination Using Column-Switching Capillary Chromatography Interfaced with Mass Spectrometry. <i>Journal of Chromatography Library</i> , 2003 , 68, 39-73		1
4	Isoform-specific quantification of endothelins in HUVEC culture supernatants by on-line high-performance liquid chromatography/electrospray mass spectrometry. <i>Biomedical Chromatography</i> , 2004 , 18, 388-95	1.7	1
3	TCellXTalk facilitates the detection of co-modified peptides for the study of protein post-translational modification cross-talk in T cells. <i>Bioinformatics</i> , 2019 , 35, 1404-1413	7.2	1
2	Spontaneous changes in brain striatal dopamine synthesis and storage dynamics ex vivo reveal end-product feedback-inhibition of tyrosine hydroxylase.. <i>Neuropharmacology</i> , 2022 , 109058	5.5	0
1	Proteomics-based identification of novel <i>Candida albicans</i> antigens for diagnosis of systemic candidiasis in patients with underlying hematological malignancies289-324		