

Marta Vilaseca

List of Publications by Year in descending order

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57
papers

1,743
citations

304743

22
h-index

302126

39
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64
all docs

64
docs citations

64
times ranked

3421
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 1 | Prodigiosin from the supernatant of <i>Serratia marcescens</i> induces apoptosis in haematopoietic cancer cell lines. <i>British Journal of Pharmacology</i> , 2000, 131, 585-593. | 5.4 | 163 |
| 2 | Structure of the homodimeric androgen receptor ligand-binding domain. <i>Nature Communications</i> , 2017, 8, 14388. | 12.8 | 131 |
| 3 | First Community-Wide, Comparative Cross-Linking Mass Spectrometry Study. <i>Analytical Chemistry</i> , 2019, 91, 6953-6961. | 6.5 | 100 |
| 4 | A β ²⁴⁰ and A β ²⁴² Amyloid Fibrils Exhibit Distinct Molecular Recycling Properties. <i>Journal of the American Chemical Society</i> , 2011, 133, 6505-6508. | 13.7 | 93 |
| 5 | SDS-PAGE analysis of A β ² oligomers is disserving research into Alzheimer's disease: appealing for ESI-IM-MS. <i>Scientific Reports</i> , 2015, 5, 14809. | 3.3 | 88 |
| 6 | An oxygen-sensitive toxin-antitoxin system. <i>Nature Communications</i> , 2016, 7, 13634. | 12.8 | 63 |
| 7 | Lack of Glycogenin Causes Glycogen Accumulation and Muscle Function Impairment. <i>Cell Metabolism</i> , 2017, 26, 256-266.e4. | 16.2 | 59 |
| 8 | Structure of Triplex DNA in the Gas Phase. <i>Journal of the American Chemical Society</i> , 2012, 134, 6596-6606. | 13.7 | 56 |
| 9 | Multi-phosphorylation of the Intrinsically Disordered Unique Domain of c-Src Studied by In-Cell and Real-time NMR Spectroscopy. <i>ChemBioChem</i> , 2013, 14, 1820-1827. | 2.6 | 56 |
| 10 | A five-level classification system for proteoform identifications. <i>Nature Methods</i> , 2019, 16, 939-940. | 19.0 | 55 |
| 11 | A study of the use of NH ₄ I for the reduction of methionine sulfoxide in peptides containing cysteine and cystine. <i>Tetrahedron</i> , 1995, 51, 5701-5710. | 1.9 | 51 |
| 12 | Influence of PPh ₃ moiety in the anticancer activity of new organometallic ruthenium complexes. <i>Journal of Inorganic Biochemistry</i> , 2014, 136, 1-12. | 3.5 | 51 |
| 13 | New Insights into the Factors That Govern the Square/Triangle Equilibria of Pd(II) and Pt(II) Supramolecules. Unexpected Participation of a Mononuclear Species in the Equilibrium. <i>Inorganic Chemistry</i> , 2010, 49, 9438-9449. | 4.0 | 50 |
| 14 | Induced Self-Assembly of a Tetrathiafulvalene-Based Open-Shell Dyad through Intramolecular Electron Transfer. <i>Angewandte Chemie - International Edition</i> , 2012, 51, 11024-11028. | 13.8 | 43 |
| 15 | The human mitochondrial transcription factor A is a versatile G-quadruplex binding protein. <i>Scientific Reports</i> , 2017, 7, 43992. | 3.3 | 40 |
| 16 | An HPLC-ESMS study on the solid-phase assembly of C-terminal proline peptides. , 1999, 5, 131-140. | | 39 |
| 17 | Combined bottom-up and top-down mass spectrometry analyses of the pattern of post-translational modifications of <i>Drosophila melanogaster</i> linker histone H1. <i>Journal of Proteomics</i> , 2012, 75, 4124-4138. | 2.4 | 38 |
| 18 | Direct Evidence of the Presence of Cross-Linked A β ² Dimers in the Brains of Alzheimer's Disease Patients. <i>Analytical Chemistry</i> , 2018, 90, 4552-4560. | 6.5 | 37 |

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|----|--|-----|-----------|
| 19 | Imidazolium-Based Dicationic Cyclophanes. Solid-State Aggregates with Unconventional (C-H)⋯Cl Hydrogen Bonding Revealed by X-ray Diffraction. <i>Supramolecular Chemistry</i> , 2007, 19, 501-509. | 1.2 | 34 |
| 20 | Supramolecular Adducts of Cucurbit[7]uril and Amino Acids in the Gas Phase. <i>Journal of the American Society for Mass Spectrometry</i> , 2016, 27, 265-276. | 2.8 | 34 |
| 21 | Reduction of methionine sulfoxide with : Compatibility with peptides containing cysteine and aromatic amino acids. <i>Tetrahedron</i> , 1998, 54, 15273-15286. | 1.9 | 33 |
| 22 | A Straightforward Synthesis of 5'-Peptide Oligonucleotide Conjugates Using N ^ε -Fmoc-Protected Amino Acids. <i>Organic Letters</i> , 2005, 7, 4349-4352. | 4.6 | 26 |
| 23 | Cell cycle arrest and proapoptotic effects of the anticancer cyclodepsipeptide serratomolide (AT514) are independent of p53 status in breast cancer cells. <i>Biochemical Pharmacology</i> , 2005, 71, 32-41. | 4.4 | 23 |
| 24 | Antitumor and antiparasitic activity of novel ruthenium compounds with polycyclic aromatic ligands. <i>Journal of Inorganic Biochemistry</i> , 2015, 150, 38-47. | 3.5 | 22 |
| 25 | Quantitative analysis of post-translational modifications in human serum transthyretin associated with familial amyloidotic polyneuropathy by targeted LC-MS and intact protein MS. <i>Journal of Proteomics</i> , 2015, 127, 234-246. | 2.4 | 21 |
| 26 | Paramagnetic spherical nanoparticles by the self-assembly of persistent trityl radicals. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 3151-3158. | 2.8 | 21 |
| 27 | Spectral counting assessment of protein dynamic range in cerebrospinal fluid following depletion with plasma-designed immunoaffinity columns. <i>Clinical Proteomics</i> , 2011, 8, 6. | 2.1 | 20 |
| 28 | Self-assembled trityl radical capsules – implications for dynamic nuclear polarization. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 5785-5794. | 2.8 | 20 |
| 29 | Lights and shadows of proteomic technologies for the study of protein species including isoforms, splicing variants and protein post-translational modifications. <i>Proteomics</i> , 2011, 11, 590-603. | 2.2 | 19 |
| 30 | The Tumor Suppressor ING5 Is a Dimeric, Bivalent Recognition Molecule of the Histone H3K4me3 Mark. <i>Journal of Molecular Biology</i> , 2019, 431, 2298-2319. | 4.2 | 18 |
| 31 | Imidazolium molecular motifs located on dicationic frameworks. Electrospray mass spectrometric observation of carbenes: imidazolylidenes. <i>Rapid Communications in Mass Spectrometry</i> , 2000, 14, 1443-1447. | 1.5 | 17 |
| 32 | On the Role of Flexibility in Protein-Ligand Interactions: the Example of p53 Tetramerization Domain. <i>Chemistry - an Asian Journal</i> , 2011, 6, 1463-1469. | 3.3 | 17 |
| 33 | Applications and future of ion mobility mass spectrometry in structural biology. <i>New Journal of Chemistry</i> , 2013, 37, 1283. | 2.8 | 16 |
| 34 | Characterization of Human Sperm Protamine Proteoforms through a Combination of Top-Down and Bottom-Up Mass Spectrometry Approaches. <i>Journal of Proteome Research</i> , 2020, 19, 221-237. | 3.7 | 16 |
| 35 | The <i>Pseudomonas aeruginosa</i> substrate-binding protein Ttg2D functions as a general glycerophospholipid transporter across the periplasm. <i>Communications Biology</i> , 2021, 4, 448. | 4.4 | 15 |
| 36 | Proteomic analysis of prodigiosin-induced apoptosis in a breast cancer mitoxantrone-resistant (MCF-7) Tj ETQq0 0 0 rgBT /Overlock 10 T | 2.6 | 14 |

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|----|---|------|-----------|
| 37 | Identification and Affinity-Quantification of A β -Amyloid and I β -Synuclein Polypeptides Using On-Line SAW-Biosensor-Mass Spectrometry. <i>Journal of the American Society for Mass Spectrometry</i> , 2014, 25, 1472-1481. | 2.8 | 14 |
| 38 | Nature-inspired dimerization as a strategy to modulate neuropeptide pharmacology exemplified with vasopressin and oxytocin. <i>Chemical Science</i> , 2021, 12, 4057-4062. | 7.4 | 12 |
| 39 | Biomarker candidates for progression and clinical management of COVID-19 associated pneumonia at time of admission. <i>Scientific Reports</i> , 2022, 12, 640. | 3.3 | 11 |
| 40 | A multicentric study to evaluate the use of relative retention times in targeted proteomics. <i>Journal of Proteomics</i> , 2017, 152, 138-149. | 2.4 | 9 |
| 41 | Functional analysis of <i>TLK2</i> variants and their proximal interactomes implicates impaired kinase activity and chromatin maintenance defects in their pathogenesis. <i>Journal of Medical Genetics</i> , 2022, 59, 170-179. | 3.2 | 9 |
| 42 | Location of Disulfide bonds in mature I β -L-fucosidase from pea. <i>Journal of Peptide Science</i> , 2001, 7, 305-315. | 1.4 | 7 |
| 43 | Molecular recognition at protein surface in solution and gas phase: Five VEGF peptidic ligands show inverse affinity when studied by NMR and CID-MS. <i>Biopolymers</i> , 2010, 94, 689-700. | 2.4 | 7 |
| 44 | The histone code reader PHD finger protein 7 controls sex-linked disparities in gene expression and malignancy in <i>Drosophila</i> . <i>Science Advances</i> , 2019, 5, eaaw7965. | 10.3 | 7 |
| 45 | Protamine Characterization by Top-Down Proteomics: Boosting Proteoform Identification with DBSCAN. <i>Proteomes</i> , 2021, 9, 21. | 3.5 | 7 |
| 46 | Enhanced reactivity of Lys182 explains the limited efficacy of biogenic amines in preventing the inactivation of glucose-6-phosphate dehydrogenase by methylglyoxal. <i>Bioorganic and Medicinal Chemistry</i> , 2011, 19, 1613-1622. | 3.0 | 6 |
| 47 | Characterization of superoxide dismutase 1 (SOD β) by electrospray ionization-ion mobility mass spectrometry. <i>Journal of Mass Spectrometry</i> , 2013, 48, 60-67. | 1.6 | 6 |
| 48 | Ion mobility and Top-down MS complementary approaches for the structural analysis of protein models bound to anticancer metallodrugs. <i>Inorganica Chimica Acta</i> , 2014, 423, 60-69. | 2.4 | 6 |
| 49 | Characterisation of serum transthyretin by electrospray ionisation-ion mobility mass spectrometry: Application to familial amyloidotic polyneuropathy type I (FAP-I). <i>Talanta</i> , 2015, 144, 1216-1224. | 5.5 | 6 |
| 50 | Analyzing slowly exchanging protein conformations by ion mobility mass spectrometry: study of the dynamic equilibrium of prolyl oligopeptidase. <i>Journal of Mass Spectrometry</i> , 2016, 51, 504-511. | 1.6 | 6 |
| 51 | Automatic and rapid identification of glycopeptides by nano-UPLC-LTQ-FT-MS and proteomic search engine. <i>Journal of Proteomics</i> , 2017, 152, 236-242. | 2.4 | 6 |
| 52 | A chemometric approach for characterization of serum transthyretin in familial amyloidotic polyneuropathy type I (FAP-I) by electrospray ionization-ion mobility mass spectrometry. <i>Talanta</i> , 2018, 181, 87-94. | 5.5 | 5 |
| 53 | Furan warheads for covalent trapping of weak protein-protein interactions: cross-linking of thymosin β 4 to actin. <i>Chemical Communications</i> , 2021, 57, 6054-6057. | 4.1 | 5 |
| 54 | Selection of Betaine Building Blocks for the Construction of Quadrupolar Heterophane Frameworks. <i>European Journal of Organic Chemistry</i> , 2002, 2002, 2691. | 2.4 | 4 |

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|----|---|-----|-----------|
| 55 | Does the Solid-Phase Synthesis of a Tetrapeptide Represent a Challenge at the Onset of the XXI Century? The Case of Cyclo [(3R)-3-hydroxydecanoyl-L-seryl-(3R)-3-hydroxydecanoyl-L-seryl]. International Journal of Peptide Research and Therapeutics, 2007, 13, 313-327. | 1.9 | 2 |
| 56 | Multi-laboratory experiment PME11 for the standardization of phosphoproteome analysis. Journal of Proteomics, 2022, 251, 104409. | 2.4 | 1 |
| 57 | Top-Down Proteomics Applied to Human Cerebrospinal Fluid. Methods in Molecular Biology, 2019, 2044, 193-219. | 0.9 | 0 |