

Francisco Fernandez-Lima

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/3009657/publications.pdf>

Version: 2024-02-01

55
papers

950
citations

471509

17
h-index

526287

27
g-index

56
all docs

56
docs citations

56
times ranked

988
citing authors

#	ARTICLE	IF	CITATIONS
1	Unsupervised Structural Classification of Dissolved Organic Matter Based on Fragmentation Pathways. <i>Environmental Science & Technology</i> , 2022, 56, 1458-1468.	10.0	12
2	AT-hook peptides bind the major and minor groove of AT-rich DNA duplexes. <i>Nucleic Acids Research</i> , 2022, 50, 2431-2439.	14.5	6
3	Spatially Resolved Neuropeptide Characterization from Neuropathological Formalin-Fixed, Paraffin-Embedded Tissue Sections by a Combination of Imaging MALDI FT-ICR Mass Spectrometry Histochemistry and Liquid Extraction Surface Analysis-Trapped Ion Mobility Spectrometry-Tandem Mass Spectrometry. <i>Journal of the American Society for Mass Spectrometry</i> , 2022, 33, 681-687.	2.8	6
4	Coupling Stable Isotope Labeling and Liquid Chromatography-Trapped Ion Mobility Spectrometry-Time-of-Flight-Tandem Mass Spectrometry for <i>De Novo</i> Mosquito Ovarian Lipid Studies. <i>Analytical Chemistry</i> , 2022, 94, 6139-6145.	6.5	2
5	Nanomolar affinity of EF-hands in neuronal calcium sensor 1 for bivalent cations Pb ²⁺ , Mn ²⁺ , and Hg ²⁺ . <i>Metallomics</i> , 2022, 14, .	2.4	6
6	Trapped Ion Mobility Spectrometry, Ultraviolet Photodissociation, and Time-of-Flight Mass Spectrometry for Gas-Phase Peptide Isobars/Isomers/Conformers Discrimination. <i>Journal of the American Society for Mass Spectrometry</i> , 2022, 33, 1267-1275.	2.8	12
7	Exploring the Conformations and Binding Location of HMGA2-DNA Complexes Using Ion Mobility Spectrometry and 193 nm Ultraviolet Photodissociation Mass Spectrometry. <i>Journal of the American Society for Mass Spectrometry</i> , 2022, 33, 1092-1102.	2.8	2
8	Exploring the Conformational and Binding Dynamics of HMGA2-DNA Complexes Using Trapped Ion Mobility Spectrometry-Mass Spectrometry. <i>Journal of the American Society for Mass Spectrometry</i> , 2022, 33, 1103-1112.	2.8	4
9	Structural Insights from Tandem Mass Spectrometry, Ion Mobility-Mass Spectrometry, and Infrared/Ultraviolet Spectroscopy on Sphingonodin I: Lasso vs Branched-Cyclic Topoisomers. <i>Journal of the American Society for Mass Spectrometry</i> , 2021, 32, 1096-1104.	2.8	4
10	Comprehensive Screening of Polycyclic Aromatic Hydrocarbons and Similar Compounds Using GC-APLI-TIMS-TOFMS/GC-EI-MS. <i>Analytical Chemistry</i> , 2021, 93, 6080-6087.	6.5	19
11	Structural Heterogeneity of Human Histone H2A.1. <i>Journal of Physical Chemistry B</i> , 2021, 125, 4977-4986.	2.6	5
12	Exploring structural signatures of the lanthipeptide prochlorosin 2.8 using tandem mass spectrometry and trapped ion mobility-mass spectrometry. <i>Analytical and Bioanalytical Chemistry</i> , 2021, 413, 4815-4824.	3.7	9
13	Proteoform Differentiation using Tandem Trapped Ion Mobility, Electron Capture Dissociation, and ToF Mass Spectrometry. <i>Analytical Chemistry</i> , 2021, 93, 9575-9582.	6.5	18
14	Characterization of Deasphalted Crude Oils Using Gas Chromatography-Atmospheric Pressure Laser Ionization-Trapped Ion Mobility Spectrometry-Time-of-Flight Mass Spectrometry. <i>Energy & Fuels</i> , 2021, 35, 13722-13730.	5.1	9
15	A Bifunctional Leader Peptidase/ABC Transporter Protein Is Involved in the Maturation of the Lasso Peptide Cochonodin I from <i>Streptococcus suis</i> . <i>Journal of Natural Products</i> , 2021, 84, 2683-2691.	3.0	11
16	Trapped Ion Mobility Spectrometry of Native Macromolecular Assemblies. <i>Analytical Chemistry</i> , 2021, 93, 2933-2941.	6.5	32
17	Epoxidation of juvenile hormone was a key innovation improving insect reproductive fitness. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	7.1	19
18	Structural Characterization of Human Histone H4.1 by Tandem Nonlinear and Linear Ion Mobility Spectrometry Complemented with Molecular Dynamics Simulations. <i>ACS Omega</i> , 2021, 6, 29567-29576.	3.5	2

#	ARTICLE	IF	CITATIONS
19	Substrate Sequence Controls Regioselectivity of Lanthionine Formation by ProcM. Journal of the American Chemical Society, 2021, 143, 18733-18743.	13.7	19
20	Multimodal, in Situ Imaging of Ex Vivo Human Skin Reveals Decrease of Cholesterol Sulfate in the Neoeplithelium during Acute Wound Healing. Analytical Chemistry, 2020, 92, 1386-1394.	6.5	12
21	Following Structural Changes by Thermal Denaturation Using Trapped Ion Mobility Spectrometryâ€“Mass Spectrometry. Journal of Physical Chemistry B, 2020, 124, 6257-6265.	2.6	11
22	Structural Characterization of Dissolved Organic Matter at the Chemical Formula Level Using TIMS-FT-ICR MS/MS. Analytical Chemistry, 2020, 92, 11960-11966.	6.5	25
23	Salt bridges govern the structural heterogeneity of heme protein interactions and porphyrin networks: microperoxidase-11. RSC Advances, 2020, 10, 33861-33867.	3.6	0
24	Mapping chemotherapeutic drug distribution in cancer cell spheroids using 2D-TOF-SIMS and LESA-TIMS-MS. Analyst, The, 2020, 145, 7056-7062.	3.5	2
25	LESA Cyclic Ion Mobility Mass Spectrometry of Intact Proteins from Thin Tissue Sections. Analytical Chemistry, 2020, 92, 6321-6326.	6.5	23
26	Exploring the Conformational Space of Growth-Hormone-Releasing Hormone Analogues Using Dopant Assisted Trapped Ion Mobility Spectrometryâ€“Mass Spectrometry. Journal of Physical Chemistry B, 2019, 123, 6169-6177.	2.6	8
27	Influence of gas modifiers on the TIMS analysis of familiar explosives. International Journal for Ion Mobility Spectrometry, 2019, 22, 71-76.	1.4	1
28	Recent advances in biological separations using trapped ion mobility spectrometry â€“ mass spectrometry. TrAC - Trends in Analytical Chemistry, 2019, 116, 308-315.	11.4	52
29	Effective Liquid Chromatographyâ€“Trapped Ion Mobility Spectrometryâ€“Mass Spectrometry Separation of Isomeric Lipid Species. Analytical Chemistry, 2019, 91, 5021-5027.	6.5	64
30	Evidence of <i>Cis</i> / <i>Trans</i> -Isomerization at Pro7/Pro16 in the Lasso Peptide Microcin J25. Journal of the American Society for Mass Spectrometry, 2019, 30, 1038-1045.	2.8	12
31	Three dimensional secondary ion mass spectrometry imaging (3D-SIMS) of <i>Aedes aegypti</i> ovarian follicles. Journal of Analytical Atomic Spectrometry, 2019, 34, 874-883.	3.0	22
32	Workflow for fast lipid tissue screening using LESA-FT-ICR-MS. Analytical Methods, 2019, 11, 2385-2395.	2.7	7
33	Juvenile hormone controls ovarian development in female Anopheles albimanus mosquitoes. Scientific Reports, 2019, 9, 2127.	3.3	20
34	Understanding the structural complexity of dissolved organic matter: isomeric diversity. Faraday Discussions, 2019, 218, 431-440.	3.2	30
35	Measuring the Integrity of Gas-Phase Conformers of Sodiated 25-Hydroxyvitamin D3 by Drift Tube, Traveling Wave, Trapped, and High-Field Asymmetric Ion Mobility. Analytical Chemistry, 2019, 91, 4092-4099.	6.5	13
36	Microheterogeneity of Topoisomerase IA/IB and Their DNA-Bound States. ACS Omega, 2019, 4, 3619-3626.	3.5	9

#	ARTICLE	IF	CITATIONS
37	The effects of solution additives and gas-phase modifiers on the molecular environment and conformational space of common heme proteins. <i>Rapid Communications in Mass Spectrometry</i> , 2019, 33, 399-404.	1.5	10
38	Single-stranded DNA structural diversity: TAGGGT from monomers to dimers to tetramer formation. <i>Rapid Communications in Mass Spectrometry</i> , 2019, 33, 60-65.	1.5	3
39	Increasing Analytical Separation and Duty Cycle with Nonlinear Analytical Mobility Scan Functions in TIMS-FT-ICR MS. <i>Analytical Chemistry</i> , 2018, 90, 2446-2450.	6.5	33
40	Insights from ion mobility-mass spectrometry, infrared spectroscopy, and molecular dynamics simulations on nicotinamide adenine dinucleotide structural dynamics: NAD ⁺ vs. NADH. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 7043-7052.	2.8	14
41	Linear and Differential Ion Mobility Separations of Middle-Down Proteoforms. <i>Analytical Chemistry</i> , 2018, 90, 2918-2925.	6.5	43
42	Metal ions induced secondary structure rearrangements: mechanically interlocked lasso vs. unthreaded branched-cyclic topoisomers. <i>Analyst</i> , 2018, 143, 2323-2333.	3.5	12
43	Tailoring peptide conformational space with organic gas modifiers in TIMS-MS. <i>International Journal for Ion Mobility Spectrometry</i> , 2018, 21, 43-48.	1.4	8
44	Identification of Lasso Peptide Topologies Using Native Nano-electrospray Ionization-Trapped Ion Mobility Spectrometry-Mass Spectrometry. <i>Analytical Chemistry</i> , 2018, 90, 5139-5146.	6.5	34
45	JH biosynthesis and hemolymph titers in adult male <i>Aedes aegypti</i> mosquitoes. <i>Insect Biochemistry and Molecular Biology</i> , 2018, 95, 10-16.	2.7	11
46	Towards Discovery and Targeted Peptide Biomarker Detection Using nanoESI-TIMS-TOF MS. <i>Journal of the American Society for Mass Spectrometry</i> , 2018, 29, 817-826.	2.8	31
47	Non-symbiotic hemoglobin conformational space dependence on the heme coordination using nESI-TIMS-TOF MS. <i>International Journal of Mass Spectrometry</i> , 2018, 430, 37-43.	1.5	7
48	Coupling trapped ion mobility spectrometry to mass spectrometry: trapped ion mobility spectrometry-time-of-flight mass spectrometry versus trapped ion mobility spectrometry-Fourier transform ion cyclotron resonance mass spectrometry. <i>Rapid Communications in Mass Spectrometry</i> , 2018, 32, 1287-1295.	1.5	33
49	Peptide Sequence Influence on the Conformational Dynamics and DNA binding of the Intrinsically Disordered AT-Hook 3 Peptide. <i>Scientific Reports</i> , 2018, 8, 10783.	3.3	15
50	Structural Motif Descriptors as a Way To Elucidate the Agonistic or Antagonistic Activity of Growth Hormone-Releasing Hormone Peptide Analogues. <i>ACS Omega</i> , 2018, 3, 7432-7440.	3.5	8
51	Detection of firearm discharge residue from skin swabs using trapped ion mobility spectrometry coupled to mass spectrometry. <i>Analytical Methods</i> , 2018, 10, 4219-4224.	2.7	8
52	Differentiating Parallel and Antiparallel DNA Duplexes in the Gas Phase Using Trapped Ion Mobility Spectrometry. <i>Journal of Physical Chemistry B</i> , 2018, 122, 6855-6861.	2.6	11
53	Analysis of Photoirradiated Water Accommodated Fractions of Crude Oils Using Tandem TIMS and FT-ICR MS. <i>Environmental Science & Technology</i> , 2017, 51, 5978-5988.	10.0	50
54	Fast and Effective Ion Mobility-Mass Spectrometry Separation of α -Amino-Acid-Containing Peptides. <i>Analytical Chemistry</i> , 2017, 89, 11787-11794.	6.5	76

#	ARTICLE	IF	CITATIONS
55	Characterization of Intramolecular Interactions of Cytochrome <i>c</i> Using Hydrogen-Deuterium Exchange-Trapped Ion Mobility Spectrometry-Mass Spectrometry and Molecular Dynamics. Analytical Chemistry, 2017, 89, 8757-8765.	6.5	35