

Tarick J El-Baba

List of Publications by Year in descending order

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35
papers

716
citations

516710

16
h-index

552781

26
g-index

38
all docs

38
docs citations

38
times ranked

832
citing authors

#	ARTICLE	IF	CITATIONS
1	Comparison of gaseous ubiquitin ion structures obtained from a solid and solution matrix using ion mobility spectrometry/mass spectrometry. <i>Rapid Communications in Mass Spectrometry</i> , 2021, 35, e8793.	1.5	3
2	An overview of biological applications and fundamentals of new <i>inlet</i> and <i>vacuum</i> ionization technologies. <i>Rapid Communications in Mass Spectrometry</i> , 2021, 35, e8829.	1.5	9
3	Heterogeneity of Glycan Processing on Trimeric SARS-CoV-2 Spike Protein Revealed by Charge Detection Mass Spectrometry. <i>Journal of the American Chemical Society</i> , 2021, 143, 3959-3966.	13.7	45
4	Thermal Analysis of a Mixture of Ribosomal Proteins by vT-ESI-MS: Toward a Parallel Approach for Characterizing the Stabilitome. <i>Analytical Chemistry</i> , 2021, 93, 8484-8492.	6.5	8
5	Multiple Roles of SARS-CoV-2 N Protein Facilitated by Proteoform-Specific Interactions with RNA, Host Proteins, and Convalescent Antibodies. <i>Jacs Au</i> , 2021, 1, 1147-1157.	7.9	28
6	Protons Are Fast and Smart; Proteins Are Slow and Dumb: On the Relationship of Electrospray Ionization Charge States and Conformations. <i>Journal of the American Society for Mass Spectrometry</i> , 2021, 32, 1553-1561.	2.8	17
7	Toxin import through the antibiotic efflux channel TolC. <i>Nature Communications</i> , 2021, 12, 4625.	12.8	11
8	Diketopiperazine Formation from FPGnK (n = 1-9) Peptides: Rates of Structural Rearrangements and Mechanisms. <i>Journal of Physical Chemistry B</i> , 2021, 125, 8107-8116.	2.6	2
9	Evidence for Many Unique Solution Structures for Chymotrypsin Inhibitor 2: A Thermodynamic Perspective Derived from vT-ESI-IMS-MS Measurements. <i>Journal of the American Chemical Society</i> , 2020, 142, 17372-17383.	13.7	26
10	Allosteric Inhibition of the SARS-CoV-2 Main Protease: Insights from Mass Spectrometry Based Assays**. <i>Angewandte Chemie</i> , 2020, 132, 23750-23754.	2.0	10
11	Allosteric Inhibition of the SARS-CoV-2 Main Protease: Insights from Mass Spectrometry Based Assays**. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 23544-23548.	13.8	92
12	New mass spectrometry concepts for characterization of synthetic polymers and additives. <i>Rapid Communications in Mass Spectrometry</i> , 2020, 34, e8768.	1.5	1
13	Melting of Hemoglobin in Native Solutions as measured by IMS-MS. <i>Analytical Chemistry</i> , 2020, 92, 3440-3446.	6.5	20
14	Solvent Mediation of Peptide Conformations: Polyproline Structures in Water, Methanol, Ethanol, and 1-Propanol as Determined by Ion Mobility Spectrometry-Mass Spectrometry. <i>Journal of the American Society for Mass Spectrometry</i> , 2019, 30, 77-84.	2.8	19
15	Characterizing Thermal Transitions of IgG with Mass Spectrometry. <i>Journal of the American Society for Mass Spectrometry</i> , 2019, 30, 2438-2445.	2.8	18
16	Untangling Hydrogen Bond Networks with Ion Mobility Spectrometry and Quantum Chemical Calculations: A Case Study on H ⁺ XPGG. <i>Journal of Physical Chemistry B</i> , 2019, 123, 5730-5741.	2.6	2
17	Solution thermochemistry of concanavalin A tetramer conformers measured by variable-temperature ESI-IMS-MS. <i>International Journal of Mass Spectrometry</i> , 2019, 443, 93-100.	1.5	24
18	Substance P in Solution: Trans-to-Cis Configurational Changes of Penultimate Prolines Initiate Non-enzymatic Peptide Bond Cleavages. <i>Journal of the American Society for Mass Spectrometry</i> , 2019, 30, 919-931.	2.8	13

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19	Variable-Temperature ESI-IMS-MS Analysis of Myohemerythrin Reveals Ligand Losses, Unfolding, and a Non-Native Disulfide Bond. <i>Analytical Chemistry</i> , 2019, 91, 6808-6814.	6.5	23
20	A microdroplet-accelerated Biginelli reaction: mechanisms and separation of isomers using IMS-MS. <i>Chemical Science</i> , 2019, 10, 4822-4827.	7.4	58
21	Monitoring the stabilities of a mixture of peptides by mass-spectrometry-based techniques. <i>European Journal of Mass Spectrometry</i> , 2019, 25, 73-81.	1.0	3
22	Unprecedented Ionization Processes in Mass Spectrometry Provide Missing Link between ESI and MALDI. <i>ChemPhysChem</i> , 2018, 19, 550-550.	2.1	0
23	Melting proteins confined in nanodroplets with 10.6 μm light provides clues about early steps of denaturation. <i>Chemical Communications</i> , 2018, 54, 3270-3273.	4.1	18
24	Unprecedented Ionization Processes in Mass Spectrometry Provide Missing Link between ESI and MALDI. <i>ChemPhysChem</i> , 2018, 19, 581-589.	2.1	16
25	Electronic Energies Are Not Enough: An Ion Mobility-Aided, Quantum Chemical Benchmark Analysis of H ⁺ GPGG Conformers. <i>Journal of Chemical Theory and Computation</i> , 2018, 14, 5406-5418.	5.3	7
26	Action and Ion Mobility Spectroscopy of a Shortened Retinal Derivative. <i>Journal of the American Society for Mass Spectrometry</i> , 2018, 29, 2152-2159.	2.8	5
27	Conformationally Regulated Peptide Bond Cleavage in Bradykinin. <i>Journal of the American Chemical Society</i> , 2018, 140, 9357-9360.	13.7	25
28	Melting Proteins: Evidence for Multiple Stable Structures upon Thermal Denaturation of Native Ubiquitin from Ion Mobility Spectrometry-Mass Spectrometry Measurements. <i>Journal of the American Chemical Society</i> , 2017, 139, 6306-6309.	13.7	86
29	Long-Lived Intermediates in a Cooperative Two-State Folding Transition. <i>Journal of Physical Chemistry B</i> , 2016, 120, 12040-12046.	2.6	19
30	Matrix-Assisted Ionization-Ion Mobility Spectrometry-Mass Spectrometry: Selective Analysis of a Europium ³⁺ PEG Complex in a Crude Mixture. <i>Journal of the American Society for Mass Spectrometry</i> , 2015, 26, 2086-2095.	2.8	14
31	Magic matrices for ionization in mass spectrometry. <i>International Journal of Mass Spectrometry</i> , 2015, 377, 532-545.	1.5	43
32	Characterizing synthetic polymers and additives using new ionization methods for mass spectrometry. <i>Rapid Communications in Mass Spectrometry</i> , 2014, 28, 1175-1184.	1.5	17
33	Transmission Geometry Laserspray Ionization <i>Vacuum</i> Using an Atmospheric Pressure Inlet. <i>Analytical Chemistry</i> , 2014, 86, 6208-6213.	6.5	16
34	Toward high spatial resolution sampling and characterization of biological tissue surfaces using mass spectrometry. <i>Analytical and Bioanalytical Chemistry</i> , 2014, 406, 4053-4061.	3.7	12
35	Kinetic Products Under Thermal Conditions: Rapid Entry into α -D-Galactofuranosides Using Microwave Irradiation and Selective Lewis Acids. <i>Journal of Carbohydrate Chemistry</i> , 2011, 30, 27-40.	1.1	5