

# Touradj Solouki

## List of Publications by Year in descending order

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57  
papers

1,226  
citations

394421

19  
h-index

377865

34  
g-index

58  
all docs

58  
docs citations

58  
times ranked

1117  
citing authors

#	ARTICLE	IF	CITATIONS
1	Isotopic labeling investigation of the oxygenation of nickel-bound thiolates by molecular oxygen. <i>Journal of the American Chemical Society</i> , 1992, 114, 4601-4605.	13.7	128
2	High-Resolution Fourier Transform Ion Cyclotron Resonance Mass Spectrometry of Humic and Fulvic Acids by Laser Desorption/Ionization and Electrospray Ionization. <i>Energy &amp; Fuels</i> , 1997, 11, 554-560.	5.1	126
3	Attomole Biomolecule Mass Analysis by Matrix-Assisted Laser Desorption/Ionization Fourier Transform Ion Cyclotron Resonance. <i>Analytical Chemistry</i> , 1995, 67, 4139-4144.	6.5	84
4	Electrospray Ionization and Matrix-Assisted Laser Desorption/Ionization Fourier Transform Ion Cyclotron Resonance Mass Spectrometry of Permethylated Oligosaccharides. <i>Analytical Chemistry</i> , 1998, 70, 857-864.	6.5	61
5	High-Resolution Multistage MS, MS2, and MS3 Matrix-Assisted Laser Desorption/Ionization FT-ICR Mass Spectra of Peptides from a Single Laser Shot. <i>Analytical Chemistry</i> , 1996, 68, 3718-3725.	6.5	50
6	Detection of High-Mass Biomolecules in Fourier Transform Ion Cyclotron Resonance Mass Spectrometry: Theoretical and Experimental Investigations. <i>Analytical Chemistry</i> , 1994, 66, 1583-1587.	6.5	46
7	Identification of a panel of genes as a prognostic biomarker for glioblastoma. <i>EBioMedicine</i> , 2018, 37, 68-77.	6.1	46
8	Detection, Number, and Sequence Location of Sulfur-Containing Amino Acids and Disulfide Bridges in Peptides by Ultrahigh-Resolution MALDI FTICR Mass Spectrometry. <i>Analytical Chemistry</i> , 1997, 69, 1163-1168.	6.5	45
9	Divergent pathways for the addition of dioxygen to sulfur in nickel cis-dithiolates: an isotopomeric analysis. <i>Inorganic Chemistry</i> , 1993, 32, 4171-4172.	4.0	42
10	Vacuum Ultraviolet Spectroscopy and Mass Spectrometry: A Tandem Detection Approach for Improved Identification of Gas Chromatography-Eluting Compounds. <i>Analytical Chemistry</i> , 2018, 90, 4878-4885.	6.5	40
11	H/D exchange kinetics: Experimental evidence for formation of different b fragment ion conformers/isomers during the gas-phase peptide sequencing. <i>Journal of the American Society for Mass Spectrometry</i> , 2010, 21, 358-369.	2.8	38
12	Bimolecular and unimolecular contributions to the disparate self-chemical ionizations of $\alpha$ -Pinene and camphene isomers. <i>Journal of the American Society for Mass Spectrometry</i> , 2007, 18, 2026-2039.	2.8	30
13	Chemometric Data Analysis for Deconvolution of Overlapped Ion Mobility Profiles. <i>Journal of the American Society for Mass Spectrometry</i> , 2012, 23, 1873-1884.	2.8	27
14	Structural Mass Spectrometry of Matrix-Assisted Laser-Desorbed Biomolecules by Fourier Transform Ion Cyclotron Resonance Mass Spectrometry: Photoionization and Photofragmentation. <i>Applied Spectroscopy</i> , 1993, 47, 211-217.	2.2	26
15	Mass measurement accuracy of matrix-assisted laser desorbed biomolecules: A Fourier-transform ion cyclotron resonance mass spectrometry study. <i>Rapid Communications in Mass Spectrometry</i> , 1994, 8, 26-31.	1.5	26
16	Transformation of polysulfidic sulfur to elemental sulfur in a chelated iron, hydrogen sulfide oxidation process. <i>Analytica Chimica Acta</i> , 1994, 299, 97-111.	5.4	22
17	Characterization of Electrospray Ionization (ESI) Parameters on In-ESI Hydrogen/Deuterium Exchange of Carbohydrate-Metal Ion Adducts. <i>Journal of the American Society for Mass Spectrometry</i> , 2019, 30, 235-247.	2.8	22
18	Emerging Technologies for Identification of Disinfection Byproducts: GC/FT-ICR MS Characterization of Solvent Artifacts. <i>Environmental Science &amp; Technology</i> , 2007, 41, 5419-5425.	10.0	21

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19	Multidimensional GC-Fourier Transform Ion Cyclotron Resonance MS Analyses: Utilizing Gas-Phase Basicities to Characterize Multicomponent Gasoline Samples. <i>Journal of Chromatographic Science</i> , 2009, 47, 75-82.	1.4	21
20	Characterization of Slow-Pyrolysis Bio-Oils by High-Resolution Mass Spectrometry and Ion Mobility Spectrometry. <i>Energy &amp; Fuels</i> , 2015, 29, 744-753.	5.1	21
21	A preconcentrator coupled to a GC/FTMS: Advantages of self-chemical ionization, mass measurement accuracy, and high mass resolving power for GC applications. <i>Journal of the American Society for Mass Spectrometry</i> , 2004, 15, 1191-1200.	2.8	20
22	Determination of ion mobility collision cross sections for unresolved isomeric mixtures using tandem mass spectrometry and chemometric deconvolution. <i>Analytica Chimica Acta</i> , 2016, 939, 64-72.	5.4	19
23	Improving Accuracy and Confidence of Chemical Identification by Gas Chromatography/Vacuum Ultraviolet Spectroscopy-Mass Spectrometry: Parallel Gas Chromatography, Vacuum Ultraviolet, and Mass Spectrometry Library Searches. <i>Analytical Chemistry</i> , 2018, 90, 12307-12313.	6.5	18
24	Simultaneous determination of analyte concentrations, gas-phase basicities, and proton transfer kinetics using gas chromatography/Fourier transform ion cyclotron resonance mass spectrometry (GC/FT-ICR MS). <i>International Journal of Mass Spectrometry</i> , 2006, 257, 16-26.	1.5	16
25	Collision-energy resolved ion mobility characterization of isomeric mixtures. <i>Analyst</i> , 2015, 140, 6886-6896.	3.5	16
26	Automated Deconvolution of Overlapped Ion Mobility Profiles. <i>Journal of the American Society for Mass Spectrometry</i> , 2014, 25, 1810-1819.	2.8	15
27	Combined Use of Post-Ion Mobility/Collision-Induced Dissociation and Chemometrics for b Fragment Ion Analysis. <i>Journal of the American Society for Mass Spectrometry</i> , 2013, 24, 1355-1365.	2.8	14
28	Infrared laser ablation sampling coupled with data independent high resolution UPLC-IM-MS/MS for tissue analysis. <i>Analytica Chimica Acta</i> , 2018, 1034, 102-109.	5.4	14
29	Using solution equilibria to determine average molecular weight of the Suwannee River fulvic acids. <i>Analytica Chimica Acta</i> , 2003, 496, 325-337.	5.4	13
30	A systematic study on the effect of histidine position and fragment ion size on the formation of bn ions. <i>International Journal of Mass Spectrometry</i> , 2012, 316-318, 164-173.	1.5	13
31	Evidence for Sequence Scrambling and Divergent H/D Exchange Reactions of Doubly-Charged Isobaric b-Type Fragment Ions. <i>Journal of the American Society for Mass Spectrometry</i> , 2014, 25, 226-236.	2.8	12
32	A versatile bio-inspired material platform for catalytic applications: micron-sized "buckyball-shaped" TiO <sub>2</sub> structures. <i>RSC Advances</i> , 2015, 5, 47174-47182.	3.6	12
33	Photocatalytic Conversion of Nitric Oxide on Titanium Dioxide: Cryotrapping of Reaction Products for Online Monitoring by Mass Spectrometry. <i>Journal of Physical Chemistry C</i> , 2016, 120, 8056-8067.	3.1	12
34	Honey Bee Proteome Responses to Plant and Cyanobacteria (blue-green algae) Diets. <i>ACS Food Science &amp; Technology</i> , 2021, 1, 17-26.	2.7	9
35	Evidence for Sequence Scrambling in Collision-Induced Dissociation of y-Type Fragment Ions. <i>Journal of the American Society for Mass Spectrometry</i> , 2013, 24, 1755-1766.	2.8	8
36	Proton transfer reactions of halogenated compounds: Using gas chromatography/Fourier transform ion cyclotron resonance mass spectrometry (GC/FT-ICR MS) and ab initio calculations. <i>International Journal of Mass Spectrometry</i> , 2010, 293, 1-11.	1.5	7

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37	Automated peak width measurements for targeted analysis of ion mobility unresolved species. <i>Analytica Chimica Acta</i> , 2016, 941, 49-60.	5.4	7
38	Broadband ion mobility deconvolution for rapid analysis of complex mixtures. <i>Analyst, The</i> , 2018, 143, 2574-2586.	3.5	7
39	The reaction between GSNO and H <sub>2</sub> S: On the generation of NO, HNO and N <sub>2</sub> O. <i>Nitric Oxide - Biology and Chemistry</i> , 2018, 77, 96-105.	2.7	7
40	From Aluminum Foil to Two-Dimensional Nanocrystals Using Ultrasonic Exfoliation. <i>Journal of Physical Chemistry C</i> , 2021, 125, 7746-7755.	3.1	7
41	Infrared Laser Ablation Microsampling with a Reflective Objective. <i>Journal of the American Society for Mass Spectrometry</i> , 2022, 33, 463-470.	2.8	7
42	Radio-Frequency Ionization of Organic Compounds for Mass Spectrometry Analysis. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 2426-2429.	13.8	6
43	Loss of Internal Backbone Carbonyls: Additional Evidence for Sequence-Scrambling in Collision-Induced Dissociation of $\gamma$ -Type Ions. <i>Journal of the American Society for Mass Spectrometry</i> , 2014, 25, 1716-1729.	2.8	6
44	Efficient injection of low-mass ions into high magnetic field Fourier transform ion cyclotron resonance mass spectrometers. <i>Rapid Communications in Mass Spectrometry</i> , 2014, 28, 230-238.	1.5	6
45	Deep-ultraviolet laser ablation sampling for proteomic analysis of tissue. <i>Analytica Chimica Acta</i> , 2021, 1184, 339021.	5.4	6
46	MALDI imaging directed laser ablation tissue microsampling for data independent acquisition proteomics. <i>Journal of Mass Spectrometry</i> , 2020, 55, e4475.	1.6	5
47	Analysis of volatile organic compound mixtures using radio-frequency ionization/mass spectrometry. <i>Analytical Methods</i> , 2014, 6, 4982.	2.7	4
48	Referenced Kendrick Mass Defect Annotation and Class-Based Filtering of Imaging MS Lipidomics Experiments. <i>Analytical Chemistry</i> , 2022, 94, 5504-5513.	6.5	4
49	Competing Noncovalent Host-guest Interactions and H/D Exchange: Reactions of Benzyloxycarbonyl-Proline Glycine Dipeptide Variants with ND <sub>3</sub> . <i>Journal of the American Society for Mass Spectrometry</i> , 2015, 26, 1938-1949.	2.8	3
50	DNA Oligonucleotide Fragment Ion Rearrangements Upon Collision-Induced Dissociation. <i>Journal of the American Society for Mass Spectrometry</i> , 2015, 26, 1404-1413.	2.8	3
51	Trihydroxocholanoyl-taurine in brains of rodents with hepatic encephalopathy. <i>Journal of Mass Spectrometry</i> , 2021, 56, e4729.	1.6	2
52	Supercharging Prions via Amyloid- $\beta$ -Selective Lysine Acetylation. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 15069-15079.	13.8	2
53	Reactivities of Aromatic Protons in Crude Oil Fractions toward Br <sub>2</sub> Tagging for Structural Characterization by Nuclear Magnetic Resonance and Electron Paramagnetic Resonance Spectroscopy and Mass Spectrometry. <i>Energy &amp; Fuels</i> , 2018, 32, 10549-10555.	5.1	1
54	Using isotopic envelopes and neural decision tree-based in silico fractionation for biomolecule classification. <i>Analytica Chimica Acta</i> , 2020, 1112, 34-45.	5.4	1

#	ARTICLE	IF	CITATIONS
55	Decontamination of metals from firefighter turnout gear. Journal of Occupational and Environmental Hygiene, 2022, 19, 79-86.	1.0	1
56	Evidence for electron-based ion generation in radio-frequency ionization. Journal of Mass Spectrometry, 2016, 51, 12-19.	1.6	0
57	Supercharging Prions via Amyloid-Selective Lysine Acetylation. Angewandte Chemie, 2021, 133, 15196-15206.	2.0	0