Peter T A Reilly

List of Publications by Year
in descending order

34 papers	422 citations	687363 13 h-index	839539 18 g-index
34 all docs	34 docs citations	34 times ranked	165 citing authors

#	Article	IF	Citations
1	Mapping ion stability in digitally driven ion traps and guides. International Journal of Mass Spectrometry, 2014, 364, 1-8.	1.5	37
2	Mapping the pseudopotential well for all values of the Mathieu parameter q in digital and sinusoidal ion traps. International Journal of Mass Spectrometry, 2015, 392, 86-90.	1.5	28
3	High Resolution Time-of-Flight Mass Analysis of the Entire Range of Intact Singly-Charged Proteins. Analytical Chemistry, 2011, 83, 9406-9412.	6.5	27
4	Simulation of duty cycle-based trapping and ejection of massive ions using linear digital quadrupoles: The enabling technology for high resolution time-of-flight mass spectrometry in the ultra high mass range. International Journal of Mass Spectrometry, 2011, 304, 36-40.	1.5	27
5	Computational Analysis of Quadrupole Mass Filters Employing Nontraditional Waveforms. Journal of the American Society for Mass Spectrometry, 2016, 27, 1122-1127.	2.8	24
6	Trapping of Intact, Singly-Charged, Bovine Serum Albumin Ions Injected from the Atmosphere with a 10-cm Diameter, Frequency-Adjusted Linear Quadrupole Ion Trap. Journal of the American Society for Mass Spectrometry, 2008, 19, 1942-1947.	2.8	21
7	Targeting prostate cancer cells with a multivalent PSMA inhibitor-guided streptavidin conjugate. Bioorganic and Medicinal Chemistry Letters, 2012, 22, 3931-3934.	2.2	20
8	Increasing the trapping mass range to m/z=109â€”A major step toward high resolution mass analysis of intact RNA, DNA and viruses. International Journal of Mass Spectrometry, 2012, 328-329, 28-35.	1.5	18
9	Development of MSⁿ in Digitally Operated Linear Ion Guides. Analytical Chemistry, 2014, 86, 7757-7763.	6.5	18
10	Digital Waveform Technology and the Next Generation of Mass Spectrometers. Journal of the American Society for Mass Spectrometry, 2018, 29, 331-341.	2.8	17
11	Derivation of mathematical expressions to define resonant ejection from square and sinusoidal wave ion traps. International Journal of Mass Spectrometry, 2009, 286, 64-69.	1.5	16
12	Digital mass filter analysis in stability zones A and B. Journal of Mass Spectrometry, 2018, 53, 1155-1168.	1.6	15
13	Methodology and Characterization of Isolation and Preconcentration in a Gas-Filled Digital Linear Ion Guide. Analytical Chemistry, 2017, 89, 4287-4293.	6.5	14
14	A comparison based digital waveform generator for high resolution duty cycle. Review of Scientific Instruments, 2018, 89, 084101.	1.3	14
15	Controlling the expansion into vacuumâ€”the enabling technology for trapping atmosphere-sampled particulate ions. Journal of the American Society for Mass Spectrometry, 2010, 21, 242-248.	2.8	13
16	A novel phase-coherent programmable clock for high-precision arbitrary waveform generation applied to digital ion trap mass spectrometry. International Journal of Mass Spectrometry, 2010, 292, 23-31.	1.5	10
17	Duty cycle-based isolation in linear quadrupole ion traps. International Journal of Mass Spectrometry, 2013, 343-344, 45-49.	1.5	10
18	Note: An inexpensive square waveform ion funnel driver. Review of Scientific Instruments, 2017, 88, 016104.	1.3	9

#	ARTICLE	IF	CITATIONS
19	Implementing Digital-Waveform Technology for Extended <i>m</i>/<i>z</i> Range Operation on a Native Dual-Quadrupole FT-IM-Orbitrap Mass Spectrometer. Journal of the American Society for Mass Spectrometry, 2021, 32, 2812-2820.	2.8	9
20	Highâ€resolution ultraâ€high mass spectrometry: Increasing the m/z range of protein analysis. Proteomics, 2012, 12, 3020-3029.	2.2	8
21	Limitation of Time-of-Flight Resolution in the Ultra High Mass Range. Analytical Chemistry, 2011, 83, 5831-5833.	6.5	7
22	Characterization of quadrupole mass filters operated with frequency-asymmetric and amplitude-asymmetric waveforms. International Journal of Mass Spectrometry, 2016, 404, 8-13.	1.5	7
23	Using Digital Waveforms to Mitigate Solvent Clustering During Mass Filter Analysis of Proteins. Journal of the American Society for Mass Spectrometry, 2018, 29, 2081-2085.	2.8	6
24	Tutorial and comprehensive computational study of acceptance and transmission of sinusoidal and digital ion guides. Journal of Mass Spectrometry, 2019, 54, 857-868.	1.6	6
25	New tools for theoretical comparison of rectangular and sine wave operation of ion traps, guides and mass filters. Journal of Mass Spectrometry, 2020, 55, e4661.	1.6	6
26	Impact of injection potential on measured ion response for digitally driven mass filters. International Journal of Mass Spectrometry, 2018, 434, 1-6.	1.5	5
27	Simulation of instantaneous changes in ion motion with waveform duty cycle. International Journal of Mass Spectrometry, 2019, 441, 8-13.	1.5	5
28	Computational evaluation of mass filter acceptance and transmittance influenced by developing fields: An application of the plane method to investigate prefilter efficacy for rectangular wave operated mass filters. Journal of Mass Spectrometry, 2020, 55, e4510.	1.6	4
29	Computational evaluation of a new digital tandem quadrupole mass filter. Journal of Mass Spectrometry, 2021, 56, e4699.	1.6	4
30	Will the Digital Mass Filter Be the Next High-Resolution High-Mass Analyzer?. Journal of the American Society for Mass Spectrometry, 2021, 32, 2615-2620.	2.8	4
31	Quantifying the operation of sinusoidal mass filters. Journal of Mass Spectrometry, 2021, 56, e4703.	1.6	4
32	Digital Mass Analysis in a Linear Ion Trap without Auxiliary Waveforms. Journal of the American Society for Mass Spectrometry, 2020, 31, 103-108.	2.8	3
33	Influence of the RF drive potential on the acceptance behavior of pure quadrupole mass filters operated in stability zones A and B. International Journal of Mass Spectrometry, 2020, 450, 116303.	1.5	3
34	On the relationships between resolution, dimensionless stability, pseudopotential well depth, acceptance, and transmission in mass filters. Journal of Mass Spectrometry, 2022, 57, e4825.	1.6	3