Peter T A Reilly

List of Publications by Year
in descending order

34	422	687363	839539
papers	citations	13 h-index	18 g-index

34	34	34	165
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	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
2	Computational evaluation of a new digital tandem quadrupole mass filter. Journal of Mass Spectrometry, 2021, 56, e4699.	1.6	4
3	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
4	Quantifying the operation of sinusoidal mass filters. Journal of Mass Spectrometry, 2021, 56, e4703.	1.6	4
5	Implementing Digital-Waveform Technology for Extended m/z 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
6	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
7	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
8	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
9	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
10	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
11	Simulation of instantaneous changes in ion motion with waveform duty cycle. International Journal of Mass Spectrometry, 2019, 441, 8-13.	1.5	5
12	Digital mass filter analysis in stability zones A and B. Journal of Mass Spectrometry, 2018, 53, 1155-1168.	1.6	15
13	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
14	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
15	A comparison based digital waveform generator for high resolution duty cycle. Review of Scientific Instruments, 2018, 89, 084101.	1.3	14
16	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
17	Note: An inexpensive square waveform ion funnel driver. Review of Scientific Instruments, 2017, 88, 016104.	1.3	9
18	Methodology and Characterization of Isolation and Preconcentration in a Gas-Filled Digital Linear Ion Guide. Analytical Chemistry, 2017, 89, 4287-4293.	6.5	14

#	Article	IF	Citations
19	Computational Analysis of Quadrupole Mass Filters Employing Nontraditional Waveforms. Journal of the American Society for Mass Spectrometry, 2016, 27, 1122-1127.	2.8	24
20	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
21	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
22	Development of MSⁿ in Digitally Operated Linear Ion Guides. Analytical Chemistry, 2014, 86, 7757-7763.	6.5	18
23	Mapping ion stability in digitally driven ion traps and guides. International Journal of Mass Spectrometry, 2014, 364, 1-8.	1.5	37
24	Duty cycle-based isolation in linear quadrupole ion traps. International Journal of Mass Spectrometry, 2013, 343-344, 45-49.	1.5	10
25	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
26	Highâ€resolution ultraâ€high mass spectrometry: Increasing the m/z range of protein analysis. Proteomics, 2012, 12, 3020-3029.	2.2	8
27	Targeting prostate cancer cells with a multivalent PSMA inhibitor-guided streptavidin conjugate. Bioorganic and Medicinal Chemistry Letters, 2012, 22, 3931-3934.	2.2	20
28	Limitation of Time-of-Flight Resolution in the Ultra High Mass Range. Analytical Chemistry, 2011, 83, 5831-5833.	6.5	7
29	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
30	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
31	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
32	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
33	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
34	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