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## Challenges in achieving a fundamental model for ESI

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#	Paper	IF	Citations
46	Detection of multiple protein conformational ensembles in solution via deconvolution of charge-state distributions in ESI MS. <i>Analytical Chemistry</i> , <b>2001</b> , 73, 4763-73	7.8	216
45	Coulomb fission event resolved progeny droplet production from isolated evaporating methanol droplets. <i>Analytical Chemistry</i> , <b>2001</b> , 73, 4499-507	7.8	19
44	Lebensmittelchemie 2000. <i>Nachrichten Aus Der Chemie</i> , <b>2001</b> , 49, 374-381	0.1	2
43	Methodology for the development of a drug library based upon collision-induced fragmentation for the identification of toxicologically relevant drugs in plasma samples. <i>Biomedical Applications</i> , <b>2001</b> , 759, 191-207		41
42	Factors influencing the determination of analyte ion surface partitioning coefficients in electrosprayed droplets. <i>Journal of the American Society for Mass Spectrometry</i> , <b>2001</b> , 12, 1002-1010	3.5	13
41	Practical implications of some recent studies in electrospray ionization fundamentals. <i>Mass Spectrometry Reviews</i> , <b>2001</b> , 20, 362-87	11	999
40	Liquid chromatography-mass spectrometry and liquid chromatography-tandem mass spectrometry determination of N-methylpyrrolidinone in riverine biofilms. <i>Journal of Chromatography A</i> , <b>2001</b> , 917, 159-65	4.5	3
39	Droplet Evaporation and Discharge Dynamics in Electrospray Ionization. <i>Journal of Physical Chemistry A</i> , <b>2002</b> , 106, 9957-9967	2.8	167
38	Mass spectrometric investigation of gallium and zirconium complexes with octaethylporphyrin and tetraphenylporphyrin. <i>Journal of Mass Spectrometry</i> , <b>2002</b> , 37, 1236-41	2.2	15
37	Capillary electrophoresis-mass spectrometry: 15 years of developments and applications. <i>Electrophoresis</i> , <b>2003</b> , 24, 3837-67	3.6	255
36	Influence of response factors on determining equilibrium association constants of non-covalent complexes by electrospray ionization mass spectrometry. <i>Journal of Mass Spectrometry</i> , <b>2003</b> , 38, 491-501 <sup>2</sup>		133
35	Effect of different solution flow rates on analyte ion signals in nano-ESI MS, or: when does ESI turn into nano-ESI?. <i>Journal of the American Society for Mass Spectrometry</i> , <b>2003</b> , 14, 492-500	3.5	418
34	Parallel determination of multiple protein metabolite interactions using cell extract, protein microarrays and mass spectrometric detection. <i>Rapid Communications in Mass Spectrometry</i> , <b>2003</b> , 17, 2430-8	2.2	18
33	An equilibrium partitioning model for predicting response to host-guest complexation in electrospray ionization mass spectrometry. <i>Analytical Chemistry</i> , <b>2003</b> , 75, 1828-36	7.8	44
32	IR Vaporization Mass Spectrometry of Aerosol Particles with Ionic Solutions: The Problem of Ion-Ion Recombination. <i>Journal of Physical Chemistry A</i> , <b>2003</b> , 107, 11245-11252	2.8	12
31	Content of oak moss allergens atranol and chloroatranol in perfumes and similar products. <i>Contact Dermatitis</i> , <b>2004</b> , 50, 367-70	2.7	36
30	Development of a screening technique for noncovalent complex formation between guanidinium- and phosphonate-functionalized amino acids by electrospray ionization ion trap mass spectrometry: assessing ionization and functional group interaction. <i>International Journal of Mass Spectrometry</i> , <b>2004</b> , 235, 213-222	1.9	13

29	2003 Fred Beamish Award Lecture ? Exploring the dynamics of biological systems by mass spectrometry. <i>Canadian Journal of Chemistry</i> , <b>2004</b> , 82, 1565-1580	0.9	2
28	Fundamentals and Applications of Electrospray Ionization Mass Spectrometry for Petroleum Characterization. <i>Energy &amp; Fuels</i> , <b>2004</b> , 18, 1784-1791	4.1	57
27	Mass Spectrometry-Based Approaches to Study Biomolecular Dynamics: Equilibrium Intermediates. <b>2005</b> , 183-230		
26	Partitioning model for competitive host-guest complexation in ESI-MS. <i>Analytical Chemistry</i> , <b>2005</b> , 77, 2512-23	7.8	24
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24	Investigating bidentate and tridentate carbamoylmethylphosphine oxide ligand interactions with rare-Earth elements using electrospray ionization quadrupole ion trap mass spectrometry. <i>Inorganic Chemistry</i> , <b>2005</b> , 44, 6415-24	5.1	27
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19	Electrospray characteristic curves: in pursuit of improved performance in the nanoflow regime. <i>Analytical Chemistry</i> , <b>2007</b> , 79, 8030-6	7.8	47
18	Towards the electrospray ionization mass spectrometry ionization efficiency scale of organic compounds. <i>Rapid Communications in Mass Spectrometry</i> , <b>2008</b> , 22, 379-84	2.2	63
17	A new insight into suction and dilution effects in capillary electrophoresis coupled to mass spectrometry via an electrospray ionization interface. Part I-Suction effect. <i>Electrophoresis</i> , <b>2008</b> , 29, 1957-64	3.6	52
16	Monte carlo simulation of macromolecular ionization by nanoelectrospray. <i>Journal of the American Society for Mass Spectrometry</i> , <b>2008</b> , 19, 1098-107	3.5	32
15	Measurement of total acid number (TAN) and TAN boiling point distribution in petroleum products by electrospray ionization mass spectrometry. <i>Analytical Chemistry</i> , <b>2008</b> , 80, 849-55	7.8	45
14	Improved partition equilibrium model for predicting analyte response in electrospray ionization mass spectrometry. <i>Journal of Mass Spectrometry</i> , <b>2009</b> , 44, 222-9	2.2	12
13	A simple model for the disintegration of highly charged solvent droplets during electrospray ionization. <i>Journal of the American Society for Mass Spectrometry</i> , <b>2009</b> , 20, 496-506	3.5	18
12	A simple method to determine electrospray response factors of noncovalent complexes. <i>Analytical Chemistry</i> , <b>2009</b> , 81, 6708-15	7.8	66

11	Electrospray ionization efficiency scale of organic compounds. <i>Analytical Chemistry</i> , <b>2010</b> , 82, 2865-72	7.8	194
10	Ion clustering in electrospray mass spectrometry of brine and other electrolyte solutions. <i>Physical Chemistry Chemical Physics</i> , <b>2012</b> , 14, 6382-90	3.6	31
9	Evaluation and Elimination of Matrix Effects in LC-MS Bioanalysis. <b>2013</b> , 249-258		2
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6	A collaborative work on quantitative HPLC methods for the routine determination of atranol and chloroatranol in moss extracts. <i>Flavour and Fragrance Journal</i> , <b>2019</b> , 34, 28-35	2.5	
5	Three-dimensional aspects of formulation excipients in drug discovery: a critical assessment on orphan excipients, matrix effects and drug interactions. <i>Journal of Pharmaceutical Analysis</i> , <b>2020</b> , 10, 522-531	14	10
4	Molecular Characterization of the Surface Excess Charge Layer in Droplets. <i>Journal of the American Society for Mass Spectrometry</i> , <b>2021</b> , 32, 33-45	3.5	4
3	Relation between Ejection Mechanism and Ion Abundance in the Electric Double Layer of Droplets. <i>Journal of Physical Chemistry A</i> , <b>2021</b> , 125, 2954-2966	2.8	2
2	Mass Spectrometry of Nucleic Acid Noncovalent Complexes. <i>Chemical Reviews</i> , <b>2021</b> ,	68.1	5
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