Frantisek Turecek

List of Publications by Citations

332 papers	13,549 citations	52 h-index	104 g-index
345 ext. papers	14,334 ext. citations	5.4 avg, IF	6.46 L-index

#	Paper	IF	Citations
332	Quantitative analysis of complex protein mixtures using isotope-coded affinity tags. *Nature Biotechnology*, **1999**, 17, 994-9	44.5	4239
331	Toward a general mechanism of electron capture dissociation. *Journal of the American Society for Mass Spectrometry*, **2005**, 16, 208-24	3.5	295
330	Direct multiplex assay of lysosomal enzymes in dried blood spots for newborn screening. *Clinical Chemistry*, **2004**, 50, 1785-96	5.5	277
329	N[bond]C(alpha) bond dissociation energies and kinetics in amide and peptide radicals. Is the dissociation a non-ergodic process?. *Journal of the American Chemical Society*, **2003**, 125, 5954-63	16.4	198
328	Mechanism and energetics of intramolecular hydrogen transfer in amide and peptide radicals and cation-radicals. *Journal of the American Chemical Society*, **2003**, 125, 3353-69	16.4	175
327	Peptide radicals and cation radicals in the gas phase. *Chemical Reviews*, **2013**, 113, 6691-733	68.1	172
326	Direct multiplex assay of enzymes in dried blood spots by tandem mass spectrometry for the newborn screening of lysosomal storage disorders. *Journal of Inherited Metabolic Disease*, **2006**, 29, 397-404	5.4	154
325	Improved sensitivity mass spectrometric detection of eicosanoids by charge reversal derivatization. *Analytical Chemistry*, **2010**, 82, 6790-6	7.8	130
324	Identification of infants at risk for developing Fabry, Pompe, or mucopolysaccharidosis-I from newborn blood spots by tandem mass spectrometry. *Journal of Pediatrics*, **2013**, 163, 498-503	3.6	129
323	Copper(II) amino acid complexes in the gas phase. *Journal of the American Chemical Society*, **1995**, 117, 3637-3638	16.4	127
322	Hydrocarbon oxidation by Bis-mu-oxo manganese dimers: electron transfer, hydride transfer, and hydrogen atom transfer mechanisms. *Journal of the American Chemical Society*, **2002**, 124, 10112-23	16.4	107
321	Acidity Determination in Droplets Formed by Electrospraying Methanol-Water Solutions. *Analytical Chemistry*, **1994**, 66, 712-718	7.8	101
320	Pilot study of newborn screening for six lysosomal storage diseases using Tandem Mass Spectrometry. *Molecular Genetics and Metabolism*, **2016**, 118, 304-9	3.7	98
319	Copper-biomolecule complexes in the gas phase. The ternary way. *Mass Spectrometry Reviews*, **2007** , 26, 563-82	11	94
318	Retro-Diels-Alder reaction in mass spectrometry. *Mass Spectrometry Reviews*, **1984**, 3, 85-152	11	84
317	Transient Intermediates of Chemical Reactions by Neutralization-Reionization Mass Spectrometry. *Topics in Current Chemistry*, **2003**, 77-129		82
316	Tandem mass spectrometry for the direct assay of lysosomal enzymes in dried blood spots: application to screening newborns for mucopolysaccharidosis I. *Clinical Chemistry*, **2008**, 54, 2067-70	5.5	81

315	Newborn screening for lysosomal storage diseases. *Clinical Chemistry*, **2015**, 61, 335-46	5.5	78
314	Gas-phase complexes of amino acids with Cu(II) and diimine ligands. Part I. Aliphatic and aromatic amino acids. *Journal of Mass Spectrometry*, **1995**, 30, 1605-1616	2.2	77
313	The arginine anomaly: arginine radicals are poor hydrogen atom donors in electron transfer induced dissociations. *Journal of the American Chemical Society*, **2006**, 128, 12520-30	16.4	75
312	High-throughput assay of 9 lysosomal enzymes for newborn screening. *Clinical Chemistry*, **2013**, 59, 502-11	5.5	74
311	Thermochemistry of Simple Enols and Enol Cation Radicals Revisited. A G2(MP2) ab Initio Study. *Journal of the American Chemical Society*, **1995**, 117, 12243-12253	16.4	73
310	Preparative soft and reactive landing of multiply charged protein ions on a plasma-treated metal surface. *Analytical Chemistry*, **2005**, 77, 4890-6	7.8	72
309	Absolute quantification of specific proteins in complex mixtures using visible isotope-coded affinity tags. *Analytical Chemistry*, **2004**, 76, 4104-11	7.8	72
308	Hydrogen Atom Adducts to the Amide Bond. Generation and Energetics of Amide Radicals in the Gas Phase. *Journal of Physical Chemistry A*, **2003**, 107, 115-126	2.8	72
307	Proton affinity of uracil. A computational study of protonation sites. *Journal of the American Society for Mass Spectrometry*, **2000**, 11, 1065-71	3.5	72
306	. *Journal of the American Chemical Society*, **2000**, 122, 2361-2370	16.4	72
305	The modern mass spectrometer: A chemical laboratory for unstable neutral species. *Organic Mass Spectrometry*, **1992**, 27, 1087-1097		72
304	Tandem mass spectrometry for the direct assay of enzymes in dried blood spots: application to newborn screening for Krabbe disease. *Clinical Chemistry*, **2004**, 50, 638-40	5.5	71
303	Novel tandem quadrupole-acceleration-deceleration mass spectrometer for neutralization-reionization studies. *Journal of the American Society for Mass Spectrometry*, **1992**, 3, 493-501	3.5	69
302	Mass spectrometry in coupling with affinity capture-release and isotope-coded affinity tags for quantitative protein analysis. *Journal of Mass Spectrometry*, **2002**, 37, 1-14	2.2	68
301	Carboxylate and amine terminus directed fragmentations in gaseous dipeptide complexes with copper (II) and diimine ligands formed by electrospray. *Analytical Chemistry*, **1996**, 68, 263-70	7.8	68
300	Preparative soft and reactive landing of gas-phase ions on plasma-treated metal surfaces. *Analytical Chemistry*, **2005**, 77, 4846-53	7.8	65
299	Protonated adenine: tautomers, solvated clusters, and dissociation mechanisms. *Journal of the American Society for Mass Spectrometry*, **2005**, 16, 1713-26	3.5	64
298	Hidden histidine radical rearrangements upon electron transfer to gas-phase peptide ions. Experimental evidence and theoretical analysis. *Journal of the American Chemical Society*, **2008**, 130, 14584-96	16.4	63

297	Determination of Soluble Cu(I) and Cu(II) Species in Jet Fuel by Electrospray Ionization Mass Spectrometry. *Analytical Chemistry*, **1994**, 66, 3950-3958	7.8	61
296	A tandem mass spectrometry triplex assay for the detection of Fabry, Pompe, and mucopolysaccharidosis-I (Hurler). *Clinical Chemistry*, **2010**, 56, 1854-61	5.5	59
295	Surface-enhanced Raman spectroscopy of soft-landed polyatomic ions and molecules. *Analytical Chemistry*, **2007**, 79, 4543-51	7.8	58
294	In situ enrichment of phosphopeptides on MALDI plates functionalized by reactive landing of zirconium(IV)-n-propoxide ions. *Analytical Chemistry*, **2007**, 79, 5449-56	7.8	58
293	Structure of electron-capture dissociation fragments from charge-tagged peptides probed by tunable infrared multiple photon dissociation. *Journal of the American Chemical Society*, **2008**, 130, 14916-7	16.4	57
292	Methylthiomethyl Radical. A Variable-Time Neutralization-Reionization and ab Initio Study. *The Journal of Physical Chemistry*, **1994**, 98, 4845-4853		57
291	Electron capture in charge-tagged peptides. Evidence for the role of excited electronic states. *Journal of the American Society for Mass Spectrometry*, **2007**, 18, 2146-61	3.5	56
290	The histidine effect. Electron transfer and capture cause different dissociations and rearrangements of histidine peptide cation-radicals. *Journal of the American Chemical Society*, **2010**, 132, 10728-40	16.4	55
289	Where does the electron go? Electron distribution and reactivity of peptide cation radicals formed by electron transfer in the gas phase. *Journal of the American Chemical Society*, **2008**, 130, 8818-33	16.4	55
288	Tandem mass spectrometric analysis of dried blood spots for screening of mucopolysaccharidosis I in newborns. *Clinical Chemistry*, **2005**, 51, 898-900	5.5	55
287	Protonation sites in gaseous pyrrole and imidazole: a neutralization-reionization and ab initio study. *Journal of Mass Spectrometry*, **1996**, 31, 1173-84	2.2	55
286	Advances in second-order calibration. *Journal of Chemometrics*, **1993**, 7, 117-130	1.6	55
285	Cytosine neutral molecules and cation□radicals in the gas-phase: Structures, energetics, ion chemistry, and neutralization□reionization mass spectrometry. *International Journal of Mass Spectrometry*, **2007**, 267, 30-42	1.9	54
284	Tandem mass spectrometry for the direct assay of enzymes in dried blood spots: application to newborn screening for mucopolysaccharidosis II (Hunter disease). *Clinical Chemistry*, **2007**, 53, 137-40	5.5	54
283	Isomerization barriers and stabilities of C3H6+□isomers. *Journal of the American Chemical Society*, **1983**, 105, 1-3	16.4	54
282	[6+2]Cycloadditions catalyzed by titanium complexes. *Tetrahedron*, **1984**, 40, 3295-3302	2.4	54
281	Modeling Nucleobase Radicals in the Gas Phase. Experimental and Computational Study of 2-Hydroxypyridinium and 2-(1H)Pyridone Radicals. *Journal of Physical Chemistry A*, **1999**, 103, 6268-6281	2.8	52
280	Thermochemistry of unstable enols: the O-(Cd)(H) group equivalent. *Journal of Organic Chemistry*, **1986**, 51, 4066-4067	4.2	52

279	Proposed nomenclature for peptide ion fragmentation. *International Journal of Mass Spectrometry*, **2015**, 390, 24-27	1.9	51
278	Mass spectrometric analysis of catechol-histidine adducts from insect cuticle. *Analytical Biochemistry*, **1999**, 268, 229-37	3.1	51
277	Modeling nucleobase radicals in the mass spectrometer. *Journal of Mass Spectrometry*, **1998**, 33, 779-795	2.2	50
276	Determination of pyrophosphorylated forms of lipid A in Gram-negative bacteria using a multivaried mass spectrometric approach. *Proceedings of the National Academy of Sciences of the United States of America*, **2008**, 105, 12742-7	11.5	49
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274	Hydrogentrimethylammonium: A Marginally Stable Hypervalent Radical. *Journal of the American Chemical Society*, **1994**, 116, 8647-8653	16.4	49
273	Tandem Mass Spectrometry Has a Larger Analytical Range than Fluorescence Assays of Lysosomal Enzymes: Application to Newborn Screening and Diagnosis of Mucopolysaccharidoses Types II, IVA, and VI. *Clinical Chemistry*, **2015**, 61, 1363-71	5.5	48
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269	Backbone and side-chain specific dissociations of z ions from non-tryptic peptides. *Journal of the American Society for Mass Spectrometry*, **2010**, 21, 1279-95	3.5	47
268	Metastable States of Dimethylammonium, (CH3)2NH2□*Journal of Physical Chemistry A*, **1997**, 101, 3789-3799	2.8	47
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266	Non-ergodic behavior in acetone-enol ion dissociations. *Journal of the American Chemical Society*, **1984**, 106, 2525-2528	16.4	46
265	Assigning structures to gas-phase peptide cations and cation-radicals. An infrared multiphoton dissociation, ion mobility, electron transfer, and computational study of a histidine peptide ion. *Journal of Physical Chemistry B*, **2012**, 116, 3445-56	3.4	45
264	Tandem mass spectrometry for the direct assay of lysosomal enzymes in dried blood spots: application to screening newborns for mucopolysaccharidosis VI (Maroteaux-Lamy syndrome). *Analytical Chemistry*, **2010**, 82, 9587-91	7.8	45
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262	Tandem mass spectrometry for the direct assay of lysosomal enzymes in dried blood spots: application to screening newborns for mucopolysaccharidosis II (Hunter Syndrome). *Analytical Chemistry*, **2011**, 83, 1152-6	7.8	44

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256	Design and synthesis of visible isotope-coded affinity tags for the absolute quantification of specific proteins in complex mixtures. *Bioconjugate Chemistry*, **2004**, 15, 380-8	6.3	43
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