

Stephen Naylor

List of Publications by Year in descending order

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71
papers

3,863
citations

87888

38
h-index

123424

61
g-index

75
all docs

75
docs citations

75
times ranked

2732
citing authors

#	ARTICLE	IF	CITATIONS
1	Iron-Dependent Self-Assembly of Recombinant Yeast Frataxin: Implications for Friedreich Ataxia. American Journal of Human Genetics, 2000, 67, 549-562.	6.2	248
2	An approach towards the complete FAB analysis of enzymic digests of peptides and proteins. Journal of the American Chemical Society, 1986, 108, 6359-6363.	13.7	241
3	Identification of a Naturally Occurring Ligand for Thymic Positive Selection. Immunity, 1997, 6, 389-399.	14.3	171
4	Mapping the human plasma proteome by SCX-LC-IMS-MS. Journal of the American Society for Mass Spectrometry, 2007, 18, 1249-1264.	2.8	171
5	Toward Plasma Proteome Profiling with Ion Mobility-Mass Spectrometry. Journal of Proteome Research, 2006, 5, 2977-2984.	3.7	139
6	Biomarkers: current perspectives and future prospects. Expert Review of Molecular Diagnostics, 2003, 3, 525-529.	3.1	136
7	Aspects of the production of FAB and SIMS mass spectra. Journal of the American Chemical Society, 1987, 109, 1980-1986.	13.7	114
8	Preconcentration and microreaction technology on-line with capillary electrophoresis. Journal of Chromatography A, 1996, 744, 3-15.	3.7	108
9	Integrative Biological Analysis of the APOE*3-Leiden Transgenic Mouse. OMICS A Journal of Integrative Biology, 2004, 8, 3-13.	2.0	108
10	New approaches in clinical chemistry: on-line analyte concentration and microreaction capillary electrophoresis for the determination of drugs, metabolic intermediates, and biopolymers in biological fluids. Biomedical Applications, 1997, 697, 37-66.	1.7	105
11	Neelaredoxin, an Iron-binding Protein from the Syphilis Spirochete, Treponema pallidum, Is a Superoxide Reductase. Journal of Biological Chemistry, 2000, 275, 28439-28448.	3.4	97
12	Advancing drug discovery through systems biology. Drug Discovery Today, 2003, 8, 175-183.	6.4	95
13	Rare, Structurally Homologous Self-Peptides Promote Thymocyte Positive Selection. Immunity, 2002, 17, 131-142.	14.3	90
14	Utility of membrane preconcentration-capillary electrophoresis-mass spectrometry in overcoming limited sample loading for analysis of biologically derived drug metabolites, peptides, and proteins. Journal of the American Society for Mass Spectrometry, 1997, 8, 15-24.	2.8	78
15	Primer on Medical Genomics Part XIV: Introduction to Systems Biology—A New Approach to Understanding Disease and Treatment. Mayo Clinic Proceedings, 2004, 79, 651-658.	3.0	72
16	Comparison of protein mixtures in aqueous humor by membrane preconcentration - capillary electrophoresis - mass spectrometry. Electrophoresis, 1998, 19, 2361-2370.	2.4	67
17	Preliminary investigations of preconcentration-capillary electrophoresis-mass spectrometry. Biomedical Applications, 1995, 669, 67-73.	1.7	64
18	Capillary Isoelectric Focusing of Physiologically Derived Proteins with On-Line Desalting of Isotonic Salt Concentrations. Analytical Chemistry, 1997, 69, 2786-2792.	6.5	64

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19	A Strategy for Sequencing Peptides from Dilute Mixtures at the Low Femtomole Level Using Membrane Preconcentration-Capillary Electro-Phoresis-Tandem Mass Spectrometry (MPC-CE-MS/MS). <i>Journal of Liquid Chromatography and Related Technologies</i> , 1995, 18, 3591-3615.	1.0	63
20	Peer Reviewed: Membrane Preconcentration CE. <i>Analytical Chemistry</i> , 1999, 71, 183A-189A.	6.5	63
21	Investigation of the in vitro metabolism of the H2-antagonist mifentidine by on-line capillary electrophoresis-mass spectrometry using non-aqueous separation conditions. <i>Biomedical Applications</i> , 1994, 657, 373-381.	1.7	61
22	Phenotype Characterisation Using Integrated Gene Transcript, Protein and Metabolite Profiling. <i>Applied Bioinformatics</i> , 2004, 3, 205-217.	1.6	60
23	Improved on-line membrane preconcentration-capillary electrophoresis (mPC-CE). <i>Journal of High Resolution Chromatography</i> , 1995, 18, 381-383.	1.4	57
24	Structural Characterization of Contaminants Found in Commercial Preparations of Melatonin: Similarities to Case-Related Compounds from Tryptophan Associated with Eosinophilia-Myalgia Syndrome. <i>Chemical Research in Toxicology</i> , 1998, 11, 234-240.	3.3	57
25	Rapid loading of large sample volumes, analyte cleanup, and modified moving boundary transient isotachopheresis conditions for membrane preconcentration-capillary electrophoresis in small diameter capillaries. <i>Electrophoresis</i> , 1996, 17, 1801-1807.	2.4	54
26	Analysis of lipophilic peptides and therapeutic drugs: on-line-nonaqueous capillary electrophoresis-mass spectrometry. <i>Journal of Proteomics</i> , 1999, 38, 103-121.	2.4	54
27	Metal mediated sterol receptor-DNA complex association and dissociation determined by electrospray ionization mass spectrometry. <i>Nature Biotechnology</i> , 1998, 16, 262-266.	17.5	51
28	Study of in Vivo pyrazoloacridine metabolism by capillary electrophoresis using isotachopheresis preconcentration in non-aqueous separation buffer. <i>Journal of High Resolution Chromatography</i> , 1993, 16, 324-326.	1.4	50
29	Unraveling human complexity and disease with systems biology and personalized medicine. <i>Personalized Medicine</i> , 2010, 7, 275-289.	1.5	50
30	On-line preconcentration-capillary electrophoresis-mass spectrometry (PC-CE-MS). <i>Journal of High Resolution Chromatography</i> , 1994, 17, 729-731.	1.4	49
31	Zinc-induced conformational changes in the DNA-binding domain of the vitamin D receptor determined by electrospray ionization mass spectrometry. <i>Journal of the American Society for Mass Spectrometry</i> , 1998, 9, 8-14.	2.8	48
32	Strategy for isolating and sequencing biologically derived MHC class I peptides. <i>Journal of Chromatography A</i> , 1996, 744, 273-278.	3.7	45
33	Investigation of drug metabolism using capillary electrophoresis with photodiode array detection and online mass spectrometry equipped with an array detector. <i>Electrophoresis</i> , 1994, 15, 62-71.	2.4	44
34	Protein analysis by membrane preconcentration-capillary electrophoresis: systematic evaluation of parameters affecting preconcentration and separation. <i>Biomedical Applications</i> , 1998, 713, 301-311.	1.7	44
35	Enhanced performance membrane preconcentration-capillary electrophoresis-mass spectrometry (mPC-CE-MS) in conjunction with transient isotachopheresis for analysis of peptide mixtures. <i>Journal of High Resolution Chromatography</i> , 1995, 18, 384-386.	1.4	39
36	Nonaqueous solvents in the on-line capillary electrophoresis-mass spectrometry analysis of drug metabolites. <i>Journal of High Resolution Chromatography</i> , 1994, 17, 175-177.	1.4	38

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37	Enhanced sensitivity for sequence determination of major histocompatibility complex class I peptides by membrane preconcentration - capillary electrophoresis -microspray - tandem mass spectrometry. <i>Electrophoresis</i> , 1998, 19, 2207-2212.	2.4	38
38	Methods for the Differential Integrative Omic Analysis of Plasma from a Transgenic Disease Animal Model. <i>OMICS A Journal of Integrative Biology</i> , 2004, 8, 267-288.	2.0	38
39	Towards a systems level analysis of health and nutrition. <i>Current Opinion in Biotechnology</i> , 2008, 19, 100-109.	6.6	38
40	Investigation of the metabolic fate of the neuroleptic drug haloperidol by capillary electrophoresis-electrospray ionization mass spectrometry. <i>Biomedical Applications</i> , 1993, 621, 239-248.	1.7	36
41	One step microelectroelution concentration method for efficient coupling of sodium dodecylsulfate gel electrophoresis and matrix-assisted laser desorption time-of-flight mass spectrometry for protein analysis. <i>Journal of the American Society for Mass Spectrometry</i> , 1998, 9, 88-91.	2.8	36
42	Detection and quantitation of cellularly derived amyloid β^2 peptides by immunoprecipitation-HPLC-MS. <i>FEBS Letters</i> , 1998, 430, 419-423.	2.8	36
43	On-line desalting of physiologically derived fluids in conjunction with capillary isoelectric focusing-mass spectrometry. <i>Journal of the American Society for Mass Spectrometry</i> , 1997, 8, 743-748.	2.8	33
44	The role of mass spectrometry in vaccine development. <i>Vaccine</i> , 2001, 19, 2692-2700.	3.8	32
45	Modification of electroosmotic flow in preconcentration-capillary electrophoresis (PC-CE). <i>Journal of High Resolution Chromatography</i> , 1994, 17, 669-671.	1.4	31
46	Modulation effects of zinc on the formation of vitamin D receptor and retinoid X receptor ?-DNA transcription complexes: analysis by microelectrospray mass spectrometry. <i>Rapid Communications in Mass Spectrometry</i> , 2001, 15, 1011-1016.	1.5	30
47	Investigation of the metabolism of the neuroleptic drug haloperidol by capillary electrophoresis. <i>Journal of Chromatography A</i> , 1993, 652, 417-426.	3.7	29
48	Time course analysis of a microsomal incubation of a therapeutic drug using preconcentration capillary electrophoresis (PC-CE). <i>Journal of High Resolution Chromatography</i> , 1994, 17, 671-673.	1.4	29
49	Expression of <i>Desulfovibrio gigas</i> Desulforedoxin in <i>Escherichia coli</i> . <i>Journal of Biological Chemistry</i> , 1995, 270, 20273-20277.	3.4	29
50	Membrane Preconcentration-Capillary Electrophoresis-Mass Spectrometry in the Analysis of Biologically Derived Metabolites and Biopolymers. , 1996, 10, 325-330.		29
51	Determination of non-covalent metal ion-protein interactions using a microflow electrospray ionization mass spectrometry interface. <i>Rapid Communications in Mass Spectrometry</i> , 1997, 11, 939-942.	1.5	25
52	Correlation of fluorescence and circular dichroism spectroscopy with electrospray ionization mass spectrometry in the determination of tertiary conformational changes in calcium-binding proteins. <i>Rapid Communications in Mass Spectrometry</i> , 1998, 12, 613-619.	1.5	25
53	Determination of Aspartame and Caffeine in Carbonated Beverages Utilizing Electrospray Ionization-Mass Spectrometry. <i>Journal of Chemical Education</i> , 2000, 77, 1325.	2.3	24
54	Membrane preconcentration-capillary electrophoresis-mass spectrometry (mPC-CE-MS) analysis of 3-phenylamino-1,2-propanediol (PAP) metabolites. <i>Journal of High Resolution Chromatography</i> , 1996, 19, 291-294.	1.4	20

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55	Hydrophobic effects in the fast atom bombardment mass spectra of proteins and large peptides. <i>Biological Mass Spectrometry</i> , 1988, 17, 393-397.	0.5	17
56	RNA-RNA noncovalent interactions investigated by microspray ionization mass spectrometry. <i>Rapid Communications in Mass Spectrometry</i> , 2001, 15, 1539-1547.	1.5	17
57	Identification of the protein-drug adduct formed between aldehyde dehydrogenase and S-methyl-N,N-diethylthiocarbamoyl sulfoxide by on-line proteolytic digestion high performance liquid chromatography electrospray ionization mass spectrometry. , 2000, 14, 918-923.		16
58	Factors affecting the fragmentation of peptides in fast atom bombardment mass spectrometry. <i>Biomedical & Environmental Mass Spectrometry</i> , 1989, 18, 405-412.	1.6	15
59	A fast atom bombardment mass spectrometry study of transition metal carbonyl cluster compounds. <i>Journal of Organometallic Chemistry</i> , 1990, 386, 275-286.	1.8	15
60	An evaluation of tandem mass spectrometry in drug metabolism studies. <i>Biological Mass Spectrometry</i> , 1993, 22, 388-394.	0.5	15
61	Letter to the Editor: Capillary conditioning and electrospray ionization configuration for optimal capillary electrophoresis/ mass spectrometry performance. <i>Rapid Communications in Mass Spectrometry</i> , 1996, 10, 1159-1160.	1.5	15
62	Problems with over-the-counter 5-hydroxy-L-tryptophan. <i>Nature Medicine</i> , 1998, 4, 983-983.	30.7	15
63	Efficient removal of sodium dodecyl sulfate (SDS) enhances analysis of proteins by SDS-polyacrylamide gel electrophoresis coupled with matrix-assisted laser desorption/ionization time-of-flight mass spectrometry. , 1999, 13, 464-466.		15
64	Investigation of porphyrins and metalloporphyrins by fast atom bombardment mass spectrometry. <i>Analytica Chimica Acta</i> , 1990, 241, 281-287.	5.4	12
65	Rapid HPLC screening method for contaminants found in implicated L-tryptophan associated with eosinophilia myalgia syndrome and adulterated rapeseed oil associated with toxic oil syndrome. , 1998, 12, 255-261.		10
66	On-line sample clean-up and chromatography coupled with electrospray ionization mass spectrometry to characterize the primary sequence and disulfide bond content of recombinant calcium binding proteins. , 1999, 13, 37-45.		10
67	A miniaturized membrane inlet mass spectrometry interface for analysis of nitric oxide in human plasma. , 1998, 12, 985-987.		9
68	Sample Preparation. <i>Journal of Chromatography Library</i> , 1998, 60, 95-140.	0.1	7
69	Roles of FMO and CYP450 in the Metabolism in Human Liver Microsomes of S-Methyl-N, N-Diethylthiocarbamate, a Disulfiram Metabolite. <i>Alcoholism: Clinical and Experimental Research</i> , 1999, 23, 1173-1179.	2.4	7
70	Copper-induced dealkylation studies of biologically N-alkylated porphyrins by fast atom bombardment mass spectrometry. <i>Analytica Chimica Acta</i> , 1990, 241, 233-239.	5.4	6
71	Collision-activated dissociation studies of alkylamines formed from copper-induced dealkylation of N-alkylporphyrins. <i>Rapid Communications in Mass Spectrometry</i> , 1990, 4, 406-409.	1.5	1