

Pier Giorgio Righetti

List of Publications by Year in descending order

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646
papers

27,006
citations

10388

72
h-index

15730

125
g-index

672
all docs

672
docs citations

672
times ranked

14057
citing authors

#	ARTICLE	IF	CITATIONS
1	Blue silver: A very sensitive colloidal Coomassie G-250 staining for proteome analysis. <i>Electrophoresis</i> , 2004, 25, 1327-1333.	2.4	1,686
2	Isoelectric focusing in immobilized pH gradients: Principle, methodology and some applications. <i>Journal of Proteomics</i> , 1982, 6, 317-339.	2.4	930
3	Isoelectric points and molecular weights of proteins. <i>Journal of Chromatography A</i> , 1976, 127, 1-28.	3.7	492
4	Isoelectric focusing in gels. <i>Journal of Chromatography A</i> , 1974, 98, 271-321.	3.7	387
5	Prefractionation techniques in proteome analysis: The mining tools of the third millennium. <i>Electrophoresis</i> , 2005, 26, 297-319.	2.4	275
6	The free solution mobility of DNA. <i>Biopolymers</i> , 1997, 42, 687-703.	2.4	274
7	Protein Equalizer™ Technology : The quest for a "democratic proteome". <i>Proteomics</i> , 2006, 6, 3980-3992.	2.2	235
8	The state of the art of dynamic coatings. <i>Electrophoresis</i> , 2001, 22, 603-611.	2.4	232
9	Exploring the Hidden Human Urinary Proteome via Ligand Library Beads. <i>Journal of Proteome Research</i> , 2005, 4, 1917-1930.	3.7	232
10	A turning point in proteome analysis: Sample prefractionation via multicompart ment electrolyzers with isoelectric membranes. <i>Electrophoresis</i> , 2000, 21, 3639-3648.	2.4	225
11	Reduction and alkylation of proteins in preparation of two-dimensional map analysis: Why, when, and how?. <i>Electrophoresis</i> , 2001, 22, 2046-2057.	2.4	214
12	Prefractionation techniques in proteome analysis. <i>Proteomics</i> , 2003, 3, 1397-1407.	2.2	209
13	Extensive Analysis of the Cytoplasmic Proteome of Human Erythrocytes Using the Peptide Ligand Library Technology and Advanced Mass Spectrometry. <i>Molecular and Cellular Proteomics</i> , 2008, 7, 2254-2269.	3.8	208
14	Isoelectric points and molecular weights of proteins. <i>Journal of Chromatography A</i> , 1981, 220, 115-194.	3.7	182
15	Gel gradient electrophoresis, isoelectric focusing and two-dimensional techniques in horizontal, ultrathin polyacrylamide layers. <i>Journal of Proteomics</i> , 1980, 3, 273-284.	2.4	181
16	The Red Blood Cell Proteome and Interactome: An Update. <i>Journal of Proteome Research</i> , 2010, 9, 144-163.	3.7	170
17	The ProteoMiner in the proteomic arena: A non-depleting tool for discovering low-abundance species. <i>Journal of Proteomics</i> , 2008, 71, 255-264.	2.4	166
18	Proteomic Analysis of Human Blood Serum Using Peptide Library Beads. <i>Journal of Proteome Research</i> , 2007, 6, 4055-4062.	3.7	165

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19	On the limiting pore size of hydrophilic gels for electrophoresis and isoelectric focussing. <i>Journal of Proteomics</i> , 1981, 4, 347-363.	2.4	162
20	Congenital dyserythropoietic anemia type II (CDAlI) is caused by mutations in the <i>SEC23B</i> gene. <i>Human Mutation</i> , 2009, 30, 1292-1298.	2.5	160
21	Exploring the Chicken Egg White Proteome with Combinatorial Peptide Ligand Libraries. <i>Journal of Proteome Research</i> , 2008, 7, 3461-3474.	3.7	150
22	Preparative protein purification in a multi-compartment electrolyser with immobiline membranes. <i>Journal of Chromatography A</i> , 1989, 475, 293-309.	3.7	148
23	Protein adsorption to the bare silica wall in capillary electrophoresis. <i>Journal of Chromatography A</i> , 2000, 868, 85-99.	3.7	147
24	Non-linear pH courses with immobilized pH gradients. <i>Electrophoresis</i> , 1985, 6, 53-56.	2.4	144
25	Exploring the Venom Proteome of the Western Diamondback Rattlesnake, <i>Crotalus atrox</i> , via Snake Venomics and Combinatorial Peptide Ligand Library Approaches. <i>Journal of Proteome Research</i> , 2009, 8, 3055-3067.	3.7	143
26	The art of observing rare protein species in proteomes with peptide ligand libraries. <i>Proteomics</i> , 2009, 9, 1492-1510.	2.2	141
27	Unseen Proteome: Mining Below the Tip of the Iceberg To Find Low Abundance and Membrane Proteins. <i>Journal of Proteome Research</i> , 2003, 2, 303-311.	3.7	140
28	Capillary electrophoresis and isoelectric focusing in peptide and protein analysis. <i>Proteomics</i> , 2013, 13, 325-340.	2.2	140
29	Towards new formulations for polyacrylamide matrices: N-acryloylaminoethoxyethanol, a novel monomer combining high hydrophilicity with extreme hydrolytic stability. <i>Electrophoresis</i> , 1994, 15, 177-186.	2.4	135
30	Modern strategies for protein quantification in proteome analysis: Advantages and limitations. <i>Mass Spectrometry Reviews</i> , 2002, 21, 287-302.	5.4	135
31	A proteomic approach to cisplatin resistance in the cervix squamous cell carcinoma cell line A431. <i>Proteomics</i> , 2004, 4, 3246-3267.	2.2	130
32	Spot overlapping in two-dimensional maps: A serious problem ignored for much too long. <i>Proteomics</i> , 2005, 5, 2385-2395.	2.2	130
33	Isoelectric focusing of peptides. <i>Journal of Chromatography A</i> , 1978, 157, 243-251.	3.7	126
34	Preparative purification of human monoclonal antibody isoforms in a multi-compartment electrolyser with immobiline membranes. <i>Journal of Chromatography A</i> , 1990, 500, 681-696.	3.7	125
35	The ProteoMiner and the FortyNiners: Searching for gold nuggets in the proteomic arena. <i>Mass Spectrometry Reviews</i> , 2008, 27, 596-608.	5.4	125
36	Amino acid composition of zein molecular components. <i>Phytochemistry</i> , 1977, 16, 315-317.	2.9	122

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37	Polymerization kinetics of polyacrylamide gels I. Effect of different cross-linkers. <i>Electrophoresis</i> , 1981, 2, 213-219.	2.4	122
38	Membrane protein analysis by isoelectric focusing in immobilized pH gradients. <i>Electrophoresis</i> , 1985, 6, 419-422.	2.4	122
39	Proteomics as a Complementary Tool for Identifying Unintended Side Effects Occurring in Transgenic Maize Seeds As a Result of Genetic Modifications. <i>Journal of Proteome Research</i> , 2008, 7, 1850-1861.	3.7	120
40	In-depth Exploration of Cerebrospinal Fluid by Combining Peptide Ligand Library Treatment and Label-free Protein Quantification. <i>Molecular and Cellular Proteomics</i> , 2010, 9, 1006-1021.	3.8	116
41	Determination of the isoelectric point of proteins by capillary isoelectric focusing. <i>Journal of Chromatography A</i> , 2004, 1037, 491-499.	3.7	114
42	Isoelectric focusing in immobilized pH gradients. <i>Journal of Chromatography A</i> , 1984, 300, 165-224.	3.7	113
43	Preparation of immobilized pH gradients spanning 2-6 pH units with two-chamber mixers: Evaluation of two experimental approaches. <i>Electrophoresis</i> , 1984, 5, 88-97.	2.4	113
44	In-Depth Exploration of Cow's Whey Proteome via Combinatorial Peptide Ligand Libraries. <i>Journal of Proteome Research</i> , 2009, 8, 3925-3936.	3.7	113
45	Chicken egg yolk cytoplasmic proteome, mined via combinatorial peptide ligand libraries. <i>Journal of Chromatography A</i> , 2009, 1216, 1241-1252.	3.7	107
46	Quantitative Proteomics: A Review of Different Methodologies. <i>European Journal of Mass Spectrometry</i> , 2004, 10, 335-348.	1.0	106
47	Reduction of dynamic protein concentration range of biological extracts for the discovery of low-abundance proteins by means of hexapeptide ligand library. <i>Nature Protocols</i> , 2008, 3, 883-890.	12.0	104
48	Carbamylation of Proteins in 2-D Electrophoresis Myth or Reality?. <i>Journal of Proteome Research</i> , 2003, 2, 239-242.	3.7	102
49	Titration curves of proteins by combined isoelectric focusing-electrophoresis in highly porous polyacrylamide matrices. <i>Journal of Chromatography A</i> , 1980, 189, 317-330.	3.7	101
50	Alkylation kinetics of proteins in preparation for two-dimensional maps: A matrix assisted laser desorption/ionization-mass spectrometry investigation. <i>Electrophoresis</i> , 2001, 22, 2058-2065.	2.4	100
51	Critical survey of quantitative proteomics in two-dimensional electrophoretic approaches. <i>Journal of Chromatography A</i> , 2004, 1051, 3-17.	3.7	100
52	Proteome analysis in the clinical chemistry laboratory: Myth or reality?. <i>Clinica Chimica Acta</i> , 2005, 357, 123-139.	1.1	99
53	Quantitative studies on the adsorption of proteins to the bare silica wall in capillary electrophoresis. <i>Journal of Chromatography A</i> , 2000, 874, 293-303.	3.7	98
54	Numerical approaches for quantitative analysis of two-dimensional maps: A review of commercial software and home-made systems. <i>Proteomics</i> , 2005, 5, 654-666.	2.2	98

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55	Polymerization kinetics of polyacrylamide gels II. Effect of temperature. <i>Electrophoresis</i> , 1981, 2, 220-228.	2.4	97
56	Peer Reviewed: Prefractionation Techniques in Proteome Analysis. <i>Analytical Chemistry</i> , 2001, 73, 320 A-326 A.	6.5	97
57	Combinatorial peptide ligand libraries for urine proteome analysis: Investigation of different elution systems. <i>Electrophoresis</i> , 2009, 30, 2405-2411.	2.4	95
58	Reducing protein concentration range of biological samples using solid-phase ligand libraries. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2006, 833, 33-40.	2.3	93
59	Human globin chain separation by isoelectric focusing. <i>Journal of Proteomics</i> , 1979, 1, 45-57.	2.4	91
60	Exploring the Platelet Proteome via Combinatorial, Hexapeptide Ligand Libraries. <i>Journal of Proteome Research</i> , 2007, 6, 4290-4303.	3.7	89
61	Size and charge distribution of macromolecules in living systems. <i>Journal of Chromatography A</i> , 1980, 193, 1-8.	3.7	86
62	Recent progress in DNA analysis by capillary electrophoresis. <i>Electrophoresis</i> , 2002, 23, 1361.	2.4	86
63	Electrophoresis: The march of pennies, the march of dimes. <i>Journal of Chromatography A</i> , 2005, 1079, 24-40.	3.7	86
64	Polymerization kinetics of polyacrylamide gels containing immobilized pH gradients for isoelectric focusing. <i>Journal of Chromatography A</i> , 1984, 291, 31-42.	3.7	83
65	Surface modification based on Si-O and Si-C sublayers and a series of N-substituted acrylamide top-layers for capillary electrophoresis. <i>Electrophoresis</i> , 1998, 19, 1677-1682.	2.4	81
66	pH gradient simulator for electrophoretic techniques in a windows environment. <i>Journal of Chromatography A</i> , 1993, 630, 313-327.	3.7	80
67	Isoelectric focusing in immobilized pH gradients: Generation of extended pH intervals. <i>Journal of Proteomics</i> , 1983, 7, 123-142.	2.4	78
68	Capillary zone electrophoresis of DNA fragments in a novel polymer network: Poly(N-acryloylaminoethoxyethanol). <i>Electrophoresis</i> , 1994, 15, 616-622.	2.4	77
69	Fluidified polyacrylamides as molecular sieves in capillary zone electrophoresis of DNA fragments. <i>Journal of Chromatography A</i> , 1995, 689, 97-105.	3.7	77
70	Romancing the "hidden proteome", Anno Domini two zero zero seven. <i>Journal of Chromatography A</i> , 2007, 1153, 277-290.	3.7	77
71	Identification of Distinct N-terminal Truncated Forms of Prion Protein in Different Creutzfeldt-Jakob Disease Subtypes. <i>Journal of Biological Chemistry</i> , 2004, 279, 38936-38942.	3.4	76
72	Movement of DNA fragments during capillary zone electrophoresis in liquid polyacrylamide. <i>Journal of Chromatography A</i> , 1993, 652, 31-39.	3.7	73

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73	Novel acrylamido monomers with higher hydrophilicity and improved hydrolytic stability: II. Properties of N-acryloylaminopropanol. <i>Electrophoresis</i> , 1996, 17, 732-737.	2.4	73
74	In-depth exploration of Hevea brasiliensis latex proteome and "hidden allergens" via combinatorial peptide ligand libraries. <i>Journal of Proteomics</i> , 2010, 73, 1368-1380.	2.4	73
75	Wall adsorption in capillary electrophoresis experimental study and computer simulation. <i>Journal of Chromatography A</i> , 1995, 699, 297-313.	3.7	72
76	Les Maîtres de l'Orge: The Proteome Content of Your Beer Mug. <i>Journal of Proteome Research</i> , 2010, 9, 5262-5269.	3.7	72
77	Effect of 2-mercaptoethanol on pH gradients in isoelectric focusing. <i>Journal of Proteomics</i> , 1982, 6, 219-227.	2.4	71
78	Preparative isoelectric focusing in immobilized pH gradients. I. General principles and methodology. <i>Journal of Proteomics</i> , 1983, 8, 135-155.	2.4	71
79	Isoelectric focusing of proteins and peptides in gel slabs and in capillaries. This humble review is dedicated to the memory of our Maestro, Prof. Harry Svensson-Rilbe, who died on July 10, 1997 at the age of 84 years. <i>Analytica Chimica Acta</i> , 1998, 372, 1-19.	5.4	71
80	Amidosulfobetaines, a family of detergents with improved solubilization properties: Application for isoelectric focusing under denaturing conditions. <i>Analytical Biochemistry</i> , 1990, 185, 94-102.	2.4	70
81	Capillary electrophoresis of macromolecules in "syrupy" solutions: Facts and misfacts. <i>Electrophoresis</i> , 1992, 13, 690-697.	2.4	70
82	A decade of plant proteomics and mass spectrometry: Translation of technical advancements to food security and safety issues. <i>Mass Spectrometry Reviews</i> , 2013, 32, 335-365.	5.4	70
83	Wheat cultivar discrimination by capillary electrophoresis of gliadins in isoelectric buffers. <i>Electrophoresis</i> , 1998, 19, 311-318.	2.4	69
84	Protein alkylation in the presence/absence of thiourea in proteome analysis: A matrix assisted laser desorption/ionization-time of flight-mass spectrometry investigation. <i>Electrophoresis</i> , 2001, 22, 2066-2074.	2.4	69
85	Dependence of the electroosmotic mobility on the applied electric field and its reproducibility in capillary electrophoresis. <i>Journal of Chromatography A</i> , 1994, 684, 311-322.	3.7	68
86	DNA and Buffers: Are There Any Noninteracting, Neutral pH Buffers?. <i>Analytical Biochemistry</i> , 2000, 287, 167-175.	2.4	68
87	Preferential counterion binding to A-tract DNA oligomers. <i>Journal of Molecular Biology</i> , 2001, 305, 1025-1033.	4.2	68
88	Assessment of the floral origin of honey via proteomic tools. <i>Journal of Proteomics</i> , 2012, 75, 3688-3693.	2.4	68
89	Immobilized pH gradients for isoelectric focusing. III. Preparative separations in highly diluted gels. <i>Journal of Proteomics</i> , 1984, 9, 103-119.	2.4	67
90	Some more formulations for immobilized pH gradients. <i>Electrophoresis</i> , 1985, 6, 113-117.	2.4	67

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91	Proteomics of wine additives: Mining for the invisible via combinatorial peptide ligand libraries. <i>Journal of Proteomics</i> , 2010, 73, 1732-1739.	2.4	67
92	Isoelectric focusing in immobilized pH gradients: Generation and optimization of wide pH intervals with two-chamber mixers. <i>Journal of Proteomics</i> , 1983, 8, 109-133.	2.4	66
93	An improved protocol for two-dimensional maps of serum proteins with immobilized pH gradients in the first dimension. <i>Electrophoresis</i> , 1985, 6, 332-339.	2.4	65
94	Laterally aggregated™ polyacrylamide gels for electrophoresis. <i>Electrophoresis</i> , 1992, 13, 587-595.	2.4	65
95	Differential accumulation of Lhcb gene products in thylakoid membranes of Zea mays plants grown under contrasting light and temperature conditions. <i>Proteomics</i> , 2005, 5, 758-768.	2.2	65
96	Isoelectric focusing of heparin. <i>Biochimica Et Biophysica Acta (BBA) - Protein Structure</i> , 1978, 532, 137-146.	1.7	64
97	Formulations for immobilized pH gradients including pH extremes. <i>Electrophoresis</i> , 1989, 10, 806-808.	2.4	64
98	Preincubation with cysteine prevents modification of sulfhydryl groups in proteins by unreacted acrylamide in a gel. <i>Electrophoresis</i> , 1992, 13, 882-884.	2.4	64
99	Detection of point mutations by capillary electrophoresis in liquid polymers in temporal thermal gradients. <i>Electrophoresis</i> , 1994, 15, 1506-1511.	2.4	64
100	Capillary isoelectric focusing: the problem of protein solubility. <i>Journal of Chromatography A</i> , 1997, 757, 237-245.	3.7	64
101	Searching for allergens in maize kernels via proteomic tools. <i>Journal of Proteomics</i> , 2009, 72, 501-510.	2.4	64
102	Interaction among proteins and peptide libraries in proteome analysis: pH involvement for a larger capture of species. <i>Journal of Proteomics</i> , 2010, 73, 733-742.	2.4	63
103	The proteome buccaneers: how to unearth your treasure chest via combinatorial peptide ligand libraries. <i>Expert Review of Proteomics</i> , 2010, 7, 373-385.	3.0	63
104	Isoelectric focusing in immobilized pH gradients in presence of urea and neutral detergents. <i>Electrophoresis</i> , 1983, 4, 321-326.	2.4	62
105	Generation of peptide maps by capillary zone electrophoresis in isoelectric iminodiacetic acid. <i>Electrophoresis</i> , 1997, 18, 2012-2018.	2.4	62
106	Characterization of synthetic carrier ampholytes for isoelectric focusing. <i>Journal of Chromatography A</i> , 1975, 109, 341-356.	3.7	61
107	Of matrices and men. <i>Journal of Proteomics</i> , 1989, 19, 1-20.	2.4	61
108	Isoelectric Focusing in Immobilized pH Gradients: Recent Analytical and Preparative Developments. <i>Analytical Biochemistry</i> , 1997, 247, 1-10.	2.4	61

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109	Measuring the translational diffusion coefficients of small DNA molecules by capillary electrophoresis. <i>Biopolymers</i> , 2001, 58, 390-397.	2.4	61
110	Noah's nectar: The proteome content of a glass of red wine. <i>Journal of Proteomics</i> , 2010, 73, 2370-2377.	2.4	61
111	Preparative isoelectric focusing in immobilized pH gradients. II. A case report. <i>Journal of Proteomics</i> , 1983, 8, 157-172.	2.4	60
112	Capillary electrophoresis of oligonucleotides in sieving liquid polymers in isoelectric buffers. <i>Electrophoresis</i> , 1996, 17, 1470-1475.	2.4	60
113	Immobilized pH gradients: Effect of salts, added carrier ampholytes and voltage gradients on protein patterns. <i>Electrophoresis</i> , 1988, 9, 65-73.	2.4	59
114	Novel acrylamido monomers with higher hydrophilicity and improved hydrolytic stability: I. Synthetic route and product characterization. <i>Electrophoresis</i> , 1996, 17, 723-731.	2.4	59
115	A New Approach for the Detection and Identification of Protein Impurities Using Combinatorial Solid Phase Ligand Libraries. <i>Journal of Proteome Research</i> , 2006, 5, 2577-2585.	3.7	59
116	Sherlock Holmes and the proteome—a detective story. <i>FEBS Journal</i> , 2007, 274, 897-905.	4.7	59
117	Combinatorial peptide ligand libraries and plant proteomics: A winning strategy at a price. <i>Journal of Chromatography A</i> , 2009, 1216, 1215-1222.	3.7	59
118	Computer simulation of immobilized pH gradients at acidic and alkaline extremes: A quest for extended pH intervals. <i>Electrophoresis</i> , 1986, 7, 59-66.	2.4	58
119	Capillary electrophoresis of peptides in isoelectric buffers. <i>Journal of Chromatography A</i> , 1997, 772, 203-211.	3.7	58
120	Capillary electrophoresis of peptides and proteins in isoelectric buffers: An update. <i>Electrophoresis</i> , 2000, 21, 4046-4053.	2.4	58
121	Polymerization kinetics of polyacrylamide gels. III. Effect of catalysts. <i>Electrophoresis</i> , 1981, 2, 291-295.	2.4	57
122	Photopolymerization of polyacrylamide gels with methylene blue. <i>Electrophoresis</i> , 1993, 14, 40-50.	2.4	57
123	Capillary electrophoretic analysis of proteins and peptides of biomedical and pharmacological interest. <i>Biopharmaceutics and Drug Disposition</i> , 2001, 22, 337-351.	1.9	57
124	The effect of protease inhibitors on the two-dimensional electrophoresis pattern of red blood cell membranes. <i>Electrophoresis</i> , 2001, 22, 560-565.	2.4	57
125	Crystal Structure of Chicken Liver Basic Fatty Acid-Binding Protein Complexed with Cholic Acid. <i>Biochemistry</i> , 2004, 43, 14072-14079.	2.5	57
126	How to Bring the "Unseen" Proteome to the Limelight via Electrophoretic Pre-Fractionation Techniques. <i>Bioscience Reports</i> , 2005, 25, 3-17.	2.4	57

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127	Swelling kinetics of immobilized gels for isoelectric focusing. <i>Electrophoresis</i> , 1984, 5, 257-262.	2.4	56
128	Isoelectric protein purification by orthogonally coupled hydraulic and electric transports in a segmented immobilized pH gradient. <i>Journal of Proteomics</i> , 1987, 15, 147-161.	2.4	56
129	Isoelectric focusing and non-isoelectric precipitation of ferritin in immobilized pH gradients: An improved protocol overcoming protein-matrix interactions. <i>Electrophoresis</i> , 1987, 8, 62-70.	2.4	56
130	Current trends in capillary isoelectric focusing of proteins. <i>Biomedical Applications</i> , 1997, 699, 91-104.	1.7	56
131	Folding/unfolding/refolding of proteins: Present methodologies in comparison with capillary zone electrophoresis. <i>Electrophoresis</i> , 2001, 22, 2359-2374.	2.4	56
132	$\hat{\text{I}}^2$ -elimination: An unexpected artefact in proteome analysis. <i>Proteomics</i> , 2003, 3, 826-831.	2.2	55
133	Urinary Prostatin. <i>Hypertension</i> , 2005, 46, 683-688.	2.7	55
134	Hexapeptide combinatorial ligand libraries: the march for the detection of the low-abundance proteome continues. <i>BioTechniques</i> , 2008, 44, 663-665.	1.8	55
135	Screening of umbilical cord blood hemoglobins by isoelectric focusing in capillaries. <i>Electrophoresis</i> , 1995, 16, 1485-1491.	2.4	53
136	Capillary zone electrophoresis of oligonucleotides and peptides in isoelectric buffers: Theory and methodology. <i>Electrophoresis</i> , 1997, 18, 2145-2153.	2.4	53
137	Quantitative studies on the adsorption of proteins to the bare silica wall in capillary electrophoresis. <i>Journal of Chromatography A</i> , 2000, 894, 281-289.	3.7	53
138	Soft immobilized pH gradient gels in proteome analysis: A follow-up. <i>Proteomics</i> , 2003, 3, 821-825.	2.2	53
139	New developments in isoelectric focusing. <i>Journal of Chromatography A</i> , 1980, 184, 415-456.	3.7	52
140	Neonatal screening of $\hat{\text{I}}^2$ -thalassemias by thin layer isoelectric focusing. <i>American Journal of Hematology</i> , 1982, 13, 149-157.	4.1	52
141	Novel, trifunctional diamine for silica coating in capillary zone electrophoresis. <i>Journal of Chromatography A</i> , 2000, 894, 53-61.	3.7	52
142	Two-dimensional maps in soft immobilized pH gradient gels: A new approach to the proteome of the Third Millennium. <i>Electrophoresis</i> , 2002, 23, 292-297.	2.4	52
143	A new deuterated alkylating agent for quantitative proteomics. <i>Rapid Communications in Mass Spectrometry</i> , 2003, 17, 2380-2386.	1.5	52
144	Performance of Combinatorial Peptide Libraries in Capturing the Low-Abundance Proteome of Red Blood Cells. 1. Behavior of Mono- to Hexapeptides. <i>Analytical Chemistry</i> , 2008, 80, 3547-3556.	6.5	52

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145	Titration curves of interacting cytochrome b5 and hemoglobin by isoelectric focusing-electrophoresis. <i>Biochemical and Biophysical Research Communications</i> , 1978, 85, 1575-1581.	2.1	51
146	Quantitative analysis of two-dimensional gel-separated proteins using isotopically marked alkylating agents and matrix-assisted laser desorption/ionization mass spectrometry. <i>Rapid Communications in Mass Spectrometry</i> , 2002, 16, 1692-1698.	1.5	51
147	Isoelectric focusing in immobilized pH gradients in the pH 10–11 range. <i>Journal of Proteomics</i> , 1987, 15, 41-48.	2.4	50
148	Proteomic analysis of pancreatic ductal carcinoma cells treated with 5-aza-2'-deoxycytidine. <i>Electrophoresis</i> , 2003, 24, 4291-4303.	2.4	50
149	Carrier ampholytes for IEF, on their fortieth anniversary (1967–2007), brought to trial in court: The verdict. <i>Electrophoresis</i> , 2007, 28, 3799-3810.	2.4	50
150	Method for Noninvasive Analysis of Proteins and Small Molecules from Ancient Objects. <i>Analytical Chemistry</i> , 2017, 89, 3310-3317.	6.5	50
151	Isoelectric focusing as a puzzle. <i>Journal of Chromatography A</i> , 1977, 137, 171-181.	3.7	49
152	New polyacrylamide matrices for drift-free isoelectric focusing. <i>Journal of Proteomics</i> , 1982, 6, 1-15.	2.4	49
153	Electroosmosis of polymer solutions in fused silica capillaries. <i>Electrophoresis</i> , 1994, 15, 623-626.	2.4	49
154	Capillary electrophoresis of DNA for molecular diagnostics. <i>Electrophoresis</i> , 1997, 18, 1709-1714.	2.4	49
155	Modified silver staining for immobilized pH gradients. <i>Electrophoresis</i> , 1992, 13, 264-266.	2.4	48
156	Quantitation of glycosylated hemoglobins in human adult blood by capillary isoelectric focusing. <i>Electrophoresis</i> , 1996, 17, 1590-1596.	2.4	48
157	Recent Advances in Capillary Electrophoresis of DNA Fragments and PCR Products in Poly(N-substituted Acrylamides). <i>Analytical Biochemistry</i> , 1997, 244, 195-207.	2.4	48
158	DNA and buffers: The hidden danger of complex formation. <i>Biopolymers</i> , 2000, 54, 137-142.	2.4	48
159	Monitoring 2-D gel-induced modifications of proteins by MALDI-TOF mass spectrometry. <i>Mass Spectrometry Reviews</i> , 2001, 20, 121-141.	5.4	48
160	Application of partial least squares discriminant analysis and variable selection procedures: a 2D-PAGE proteomic study. <i>Analytical and Bioanalytical Chemistry</i> , 2008, 390, 1327-1342.	3.7	48
161	Unsteady heat transfer in capillary zone electrophoresis. <i>Journal of Chromatography A</i> , 1992, 606, 95-102.	3.7	47
162	Proteomic Analysis of Erythrocyte Membranes by Soft Immobilized Gels Combined with Differential Protein Extraction. <i>Journal of Proteome Research</i> , 2005, 4, 1304-1309.	3.7	47

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