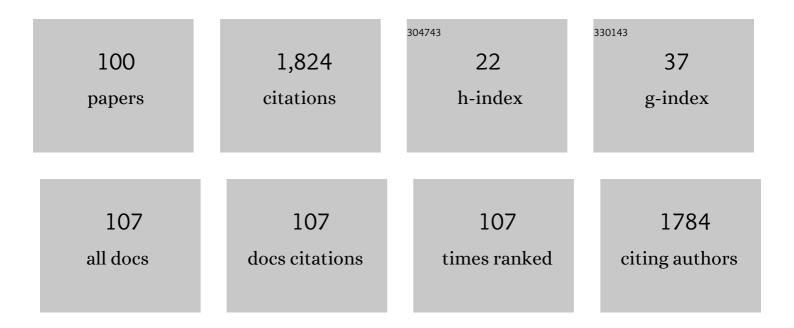
List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	A facile online multi-gear capacitively coupled contactless conductivity detector for an automatic and wide range monitoring of high salt in HPLC. Analyst, The, 2022, 147, 496-504.	3.5	3
2	Reciprocating free-flow isoelectric focusing with online array ultraviolet detector for process monitoring of protein separation. Journal of Chromatography A, 2022, 1663, 462747.	3.7	0
3	Gel Electrophoresis Chip Using Joule Heat Self-Dissipation, Short Run Time, and Online Dynamic Imaging. Analytical Chemistry, 2022, 94, 2007-2015.	6.5	5
4	Recent advances in microfluidic-based electroporation techniques for cell membranes. Lab on A Chip, 2022, 22, 2624-2646.	6.0	9
5	A facile thermometer-like electrophoresis titration biosensor for alternative miRNA assay via moving reaction boundary chip. Biosensors and Bioelectronics, 2021, 171, 112676.	10.1	9
6	Model, Simulation, and Experiments on Moving Exchange Boundary via Ligand and Quantum Dots in Chip Electrophoresis. Analytical Chemistry, 2021, 93, 5360-5364.	6.5	4
7	ExoSD chips for high-purity immunomagnetic separation and high-sensitivity detection of gastric cancer cell-derived exosomes. Biosensors and Bioelectronics, 2021, 194, 113594.	10.1	39
8	Metal Organic Framework Nanomaterial-Based Extraction and Proteome Analysis of Membrane and Membrane-Associated Proteins. Analytical Chemistry, 2021, 93, 15922-15930.	6.5	1
9	Immobilized Titanium (IV) Ion Affinity Chromatography Contributes to Efficient Proteomics Analysis of Cellular Nucleic Acid-Binding Proteins. Journal of Proteome Research, 2021, , .	3.7	3
10	Free-Flow Isoelectric Focusing for Comprehensive Separation and Analysis of Human Salivary Microbiome for Lung Cancer. Analytical Chemistry, 2020, 92, 12017-12025.	6.5	14
11	Discovery of small extracellular vesicle proteins from human serum for liver cirrhosis and liver cancer. Biochimie, 2020, 177, 132-141.	2.6	18
12	Purification of lowâ€ <b>e</b> bundance lysozyme in egg white via freeâ€flow electrophoresis with gelâ€filtration chromatography. Electrophoresis, 2020, 41, 1529-1538.	2.4	9
13	Glycoprotein fluorescent speed sensing by newly-synthesized boronic complex probe and chip supramolecular electrophoresis. Sensors and Actuators B: Chemical, 2020, 309, 127773.	7.8	6
14	Facile, Rapid, and Low-Cost Electrophoresis Titration of Thrombin by Aptamer-Linked Magnetic Nanoparticles and a Redox Boundary Chip. ACS Applied Materials & Interfaces, 2019, 11, 29549-29556.	8.0	12
15	ldentification of chicken meat quality via rapid array isoelectric focusing with extraction of hemoglobin and myoglobin in meat sample. Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences, 2019, 1128, 121790.	2.3	7
16	Double inner standard plot model of an electrophoresis titration chip for a portable and green assay of protein content in milk. Lab on A Chip, 2019, 19, 484-492.	6.0	17
17	Portable electrophoresis titration chip model for sensing of uric acid in urine and blood by moving reaction boundary. Sensors and Actuators B: Chemical, 2019, 286, 9-15.	7.8	30
18	A facile isoelectric focusing of myoglobin and hemoglobin used as markers for screening of chicken meat quality in China. Electrophoresis, 2019, 40, 2767-2774.	2.4	6

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19	Facile Counting of Ligands Capped on Nanoparticles via a Titration Chip of Moving Reaction Boundary Electrophoresis. Analytical Chemistry, 2019, 91, 7500-7504.	6.5	3
20	Cancer Cell Derived Small Extracellular Vesicles Contribute to Recipient Cell Metastasis Through Promoting HGF/c-Met Pathway*. Molecular and Cellular Proteomics, 2019, 18, 1619-1629.	3.8	44
21	Comparative proteomics analysis of microvesicles in human serum for the evaluation of osteoporosis. Electrophoresis, 2019, 40, 1839-1847.	2.4	13
22	Isoelectric focusing array with immobilized pH gradient and dynamic scanning imaging for diabetes diagnosis. Analytica Chimica Acta, 2019, 1063, 178-186.	5.4	11
23	FGA isoform as an indicator of targeted therapy for EGFR mutated lung adenocarcinoma. Journal of Molecular Medicine, 2019, 97, 1657-1668.	3.9	7
24	Electrophoresis Titration Model of a Moving Redox Boundary Chip for a Point-of-Care Test of an Enzyme-Linked Immunosorbent Assay. ACS Sensors, 2019, 4, 126-133.	7.8	15
25	Comparative Proteomic Analysis of Exosomes and Microvesicles in Human Saliva for Lung Cancer. Journal of Proteome Research, 2018, 17, 1101-1107.	3.7	122
26	Graphene and graphene oxide as aÂsolid matrix for extraction of membrane and membrane-associated proteins. Mikrochimica Acta, 2018, 185, 123.	5.0	11
27	Simple Chip Electrophoresis Titration of Neutralization Boundary with EDTA Photocatalysis for Distance-Based Sensing of Melamine in Dairy Products. Analytical Chemistry, 2018, 90, 6710-6717.	6.5	23
28	Two-dimensional chromatographic analysis using three second-dimension columns for continuous comprehensive analysis of intact proteins. Talanta, 2018, 179, 588-593.	5.5	13
29	Narrow, Open, Tubular Column for Ultrahigh-Efficiency Liquid-Chromatographic Separation under Elution Pressure of Less than 50 bar. Analytical Chemistry, 2018, 90, 10676-10680.	6.5	28
30	iPhone-imaged and cell-powered electrophoresis titration chip for the alkaline phosphatase assay in serum by the moving reaction boundary. Lab on A Chip, 2018, 18, 1758-1766.	6.0	21
31	An innovative ring-shaped electroeluter for high concentration preparative isolation of protein from polyacrylamide gel. Analytical Biochemistry, 2017, 523, 39-43.	2.4	4
32	Synthesis of a Cationic Supramolecular Block Copolymer with Covalent and Noncovalent Polymer Blocks for Gene Delivery. ACS Applied Materials & Interfaces, 2017, 9, 9006-9014.	8.0	37
33	An ionic coordination hybrid hydrogel for bioseparation. Chemical Communications, 2017, 53, 5842-5845.	4.1	5
34	Systematic comparison of exosomal proteomes from human saliva and serum for the detection of lung cancer. Analytica Chimica Acta, 2017, 982, 84-95.	5.4	107
35	Continuous protein concentration via free-flow moving reaction boundary electrophoresis. Journal of Chromatography A, 2017, 1508, 169-175.	3.7	7
36	A stable and convenient protein electrophoresis titration device with bubble removing system. Electrophoresis, 2017, 38, 1706-1712.	2.4	3

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37	Comparison of antimicrobial peptide purification via freeâ€flow electrophoresis and gel filtration chromatography. Electrophoresis, 2017, 38, 3147-3154.	2.4	10
38	Preparation of intact mitochondria using free-flow isoelectric focusing with post-pH gradient sample injection for morphological, functional and proteomics studies. Analytica Chimica Acta, 2017, 982, 200-208.	5.4	15
39	Monitoring gradient profile on-line in micro- and nano-high performance liquid chromatography using conductivity detection. Journal of Chromatography A, 2016, 1460, 68-73.	3.7	8
40	In-Vial Temperature Gradient Headspace Single Drop Microextraction Designed by Multiphysics Simulation. Analytical Chemistry, 2016, 88, 10490-10498.	6.5	19
41	Design of suitable carrier buffer for freeâ€flow zone electrophoresis by chargeâ€toâ€mass ratio and band broadening analysis. Electrophoresis, 2016, 37, 2393-2400.	2.4	4
42	Enzyme catalysis–electrophoresis titration for multiplex enzymatic assay via moving reaction boundary chip. Lab on A Chip, 2016, 16, 3538-3547.	6.0	10
43	Differential Proteomic Analysis of Human Saliva using Tandem Mass Tags Quantification for Gastric Cancer Detection. Scientific Reports, 2016, 6, 22165.	3.3	96
44	Facile preparation of salivary extracellular vesicles for cancer proteomics. Scientific Reports, 2016, 6, 24669.	3.3	52
45	Enhancing resolution of freeâ€flow zone electrophoresis via a simple sheathâ€flow sample injection. Electrophoresis, 2016, 37, 1992-1997.	2.4	7
46	A multiple covalent crosslinked soft hydrogel for bioseparation. Chemical Communications, 2016, 52, 3247-3250.	4.1	11
47	Leverage principle of retardation signal in titration of double protein via chip moving reaction boundary electrophoresis. Biosensors and Bioelectronics, 2016, 77, 284-291.	10.1	23
48	A highly efficient three-phase single drop microextraction technique for sample preconcentration. Analyst, The, 2015, 140, 3193-3200.	3.5	18
49	Reciprocating free-flow isoelectric focusing device for preparative separation of proteins. Journal of Chromatography A, 2015, 1422, 318-324.	3.7	12
50	Synthesis and Characterization of Artificial Antigens for Copper and Application for Development of an Indirect Competitive Enzyme-Linked Immunosorbent Assay. Analytical Letters, 2015, 48, 1411-1425.	1.8	3
51	A tunable isoelectric focusing via moving reaction boundary for two-dimensional gel electrophoresis and proteomics. Talanta, 2015, 137, 197-203.	5.5	13
52	Target protein separation and preparation by free-flow electrophoresis coupled with charge-to-mass ratio analysis. Journal of Chromatography A, 2015, 1397, 73-80.	3.7	19
53	Quantitative proteomic analysis of microdissected oral epithelium for cancer biomarker discovery. Oral Oncology, 2015, 51, 1011-1019.	1.5	31
54	Negativeâ€pressureâ€induced collector for a selfâ€balance freeâ€flow electrophoresis device. Journal of Separation Science, 2014, 37, 1359-1363.	2.5	5

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55	Experimental study on the optimization of general conditions for a freeâ€flow electrophoresis device with a thermoelectric coolerâ€. Journal of Separation Science, 2014, 37, 3555-3563.	2.5	9
56	Retardation Signal for Fluorescent Determination of Total Protein Content via Rapid and Sensitive Chip Moving Reaction Boundary Electrophoretic Titration. Analytical Chemistry, 2014, 86, 2888-2894.	6.5	19
57	Moving interaction boundary electrophoresis and its selective focusing of target guest molecule norfloxacin in urine by a cyclodextrin host. Analytical Methods, 2014, 6, 4360.	2.7	0
58	Mathematical model and dynamic computer simulation on free flow zone electrophoresis. Analyst, The, 2013, 138, 5734.	3.5	7
59	Study on stability mechanism of immobilized pH gradient in isoelectric focusing via the Svensson–Tiselius differential equation and moving reaction boundary. Talanta, 2013, 111, 20-27.	5.5	10
60	Theoretical and experimental studies on isotachophoresis in multi-moving chelation boundary system formed with metal ions and EDTA. Analyst, The, 2013, 138, 5039.	3.5	2
61	Quantitative investigation on the stacking of metal ions induced by another metal ion based on moving substitution boundary electrophoresis. Analytical Methods, 2013, 5, 6345.	2.7	0
62	Determination of free acidic and alkaline residues of protein via moving reaction boundary titration in microdevice electrophoresis. Analyst, The, 2013, 138, 3544.	3.5	5
63	A simple and highly stable free-flow electrophoresis device with thermoelectric cooling system. Journal of Chromatography A, 2013, 1321, 119-126.	3.7	16
64	A visual detection of protein content based on titration of moving reaction boundary electrophoresis. Analytica Chimica Acta, 2013, 774, 92-99.	5.4	19
65	Impact of glutathione-HbA1c on HbA1c measurement in diabetes diagnosis via array isoelectric focusing, liquid chromatography, mass spectrometry and ELISA. Talanta, 2013, 115, 323-328.	5.5	7
66	Stump-like mathematical model and computer simulation on dynamic separation of capillary zone electrophoresis with different sample injections. Talanta, 2013, 105, 278-286.	5.5	5
67	Simple Boric Acid-Based Fluorescent Focusing for Sensing of Glucose and Glycoprotein via Multipath Moving Supramolecular Boundary Electrophoresis Chip. Analytical Chemistry, 2013, 85, 5884-5891.	6.5	26
68	Sensitive determination of illegal drugs of clenbuterol and salbutamol in swine urine by capillary electrophoresis with on-line stacking based on the moving reaction boundary. Analytical Methods, 2013, 5, 2848.	2.7	12
69	Mathematical model and computer simulation on moving precipitate boundary electrophoresis for offline sample pre- concentration of heavy metal ion. Talanta, 2013, 103, 314-321.	5.5	3
70	Fast and selective determination of total protein in milk powder via titration of moving reaction boundary electrophoresis. Electrophoresis, 2013, 34, 1343-1351.	2.4	20
71	A simple chip freeâ€flow electrophoresis for monosaccharide sensing via supermolecule interaction of boronic acid functionalized quencher and fluorescent dye. Electrophoresis, 2013, 34, 2185-2192.	2.4	9
72	Visual offline sample stacking via moving neutralization boundary electrophoresis for analysis of heavy metal ion. Talanta, 2012, 95, 42-49.	5.5	7

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73	A simple monolithic column electroelution for protein recovery from gel electrophoresis. Analytical Biochemistry, 2012, 430, 24-31.	2.4	8
74	Simply enhancing throughput of freeâ€flow electrophoresis via organicâ€aqueous environment for purification of weak polarity solute of phenazineâ€1â€carboxylic acid in fermentation of <i><scp>P</scp>seudomonas</i> sp. <scp>M</scp> 18. Electrophoresis, 2012, 33, 2925-2930.	2.4	3
75	Enhancing separation of histidine from amino acids via freeâ€flow affinity electrophoresis with gravityâ€induced uniform hydrodynamic flow. Electrophoresis, 2012, 33, 856-865.	2.4	1
76	Quantitative investigation of resolution increase of freeâ€flow electrophoresis via simple interval sample injection and separation. Electrophoresis, 2012, 33, 2065-2074.	2.4	12
77	Comparative study on sample stacking by moving reaction boundary formed with weak acid and weak or strong alkali in capillary electrophoresis. Talanta, 2011, 84, 651-658.	5.5	13
78	Comparative study on sample stacking by moving reaction boundary formed with weak acid and weak or strong base in capillary electrophoresis: II. Experiments. Talanta, 2011, 84, 547-557.	5.5	7
79	Experimental Study on the Determination and Degradation of Pyoluteorin in Soil via CE with Soxhlet's Extraction and Field-Amplified Sample Stacking. Chromatographia, 2011, 73, 609-612.	1.3	9
80	Stacking and determination of phenazine-1-carboxylic acid with low pK a in soil via moving reaction boundaryformed by alkaline and double acidic buffers in capillary electrophoresis. Analytical and Bioanalytical Chemistry, 2011, 399, 3441-3450.	3.7	7
81	Midâ€scale freeâ€flow electrophoresis with gravityâ€induced uniform flow of background buffer in chamber for the separation of cells and proteins. Journal of Separation Science, 2011, 34, 1683-1691.	2.5	16
82	Equivalenceâ€point electromigration acid–base titration via moving neutralization boundary electrophoresis. Electrophoresis, 2011, 32, 1015-1024.	2.4	14
83	Reassemblable quasiâ€chip freeâ€flow electrophoresis with simple heating dispersion for rapid micropreparation of trypsin in crude porcine pancreatin. Electrophoresis, 2011, 32, 3248-3256.	2.4	7
84	Purification of lowâ€concentration phenazineâ€1â€carboxylic acid from fermentation broth of <i>Pseudomonas</i> sp. M18 via free flow electrophoresis with gratis gravity. Electrophoresis, 2010, 31, 3499-3507.	2.4	16
85	Controlling of band width, resolution and sample loading by injection system in a simple preparative free-flow electrophoresis with gratis gravity. Journal of Chromatography A, 2010, 1217, 2182-2186.	3.7	20
86	A novel isotachophoresis of cobalt and copper complexes by metal ion substitution reaction in a continuous moving chelation boundary. Analyst, The, 2010, 135, 140-148.	3.5	17
87	Moving affinity boundary electrophoresis and its selective isolation of histidine in urine. Analyst, The, 2010, 135, 1592.	3.5	36
88	A simple preparative freeâ€flow electrophoresis joined with gratis gravity: I. Gas cushion injector and selfâ€balance collector instead of multiple channel pump. Electrophoresis, 2009, 30, 1998-2007.	2.4	27
89	Computer simulation on a continuous moving chelation boundary in ethylenediaminetetraacetic acid-based sample sweeping in capillary electrophoresis. Journal of Chromatography A, 2009, 1216, 4913-4922.	3.7	24
90	Study on mechanism of stacking of zwitterion in highly saline biologic sample by transient moving reaction boundary created by formic buffer and conjugate base in capillary electrophoresis. Talanta, 2009, 78, 1194-1200.	5.5	17

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91	Quantitative investigations on moving chelation boundary within a continuous EDTAâ€based sample sweeping system in capillary electrophoresis. Electrophoresis, 2008, 29, 3989-3998.	2.4	20
92	Review on the theory of moving reaction boundary, electromigration reaction methods and applications in isoelectric focusing and sample pre-concentration. Analyst, The, 2008, 133, 1139.	3.5	81
93	Theoretical study on colloid/or inorganic material preparation by moving reaction boundary method in gel. Colloid and Polymer Science, 2005, 283, 1131-1136.	2.1	5
94	Quantitative Predictions to Conditions of Zwitterionic Stacking by Transient Moving Chemical Reaction Boundary Created with Weak Electrolyte Buffers in Capillary Electrophoresis. Analytical Chemistry, 2005, 77, 955-963.	6.5	54
95	Quantitative studies on the preparation of colloidal particles of cobalt hydroxide by the moving chemical reaction boundary method in agarose gel. Colloid and Polymer Science, 2004, 282, 1059-1062.	2.1	3
96	Stacking Ionizable Analytes in a Sample Matrix with High Salt by a Transient Moving Chemical Reaction Boundary Method in Capillary Zone Electrophoresis. Analytical Chemistry, 2002, 74, 4167-4174.	6.5	81
97	Improving separation efficiency of capillary zone electrophoresis of tryptophan and phenylalanine with the transient moving chemical reaction boundary method. Journal of Chromatography A, 2002, 952, 39-46.	3.7	27
98	Investigations on factors that influence the moving neutralization reaction boundary method for capillary electrophoresis and isoelectric focusing. Journal of Chromatography A, 2002, 952, 29-38.	3.7	12
99	Moving chemical reaction boundary and isoelectric focusing. Journal of Chromatography A, 1998, 813, 153-171.	3.7	51
100	Comparisons of the mobilities of salt ions obtained by the moving boundary method and two empirical equations in capillary electrophoresis. Journal of Chromatography A, 1997, 771, 374-378.	3.7	29