

# Marcella Chiari

## List of Publications by Citations

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5,071  
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#	Paper	IF	Citations
199	Protein and peptide arrays: recent trends and new directions. <i>New Biotechnology</i> , <b>2006</b> , 23, 77-88		211
198	Digital Detection of Exosomes by Interferometric Imaging. <i>Scientific Reports</i> , <b>2016</b> , 6, 37246	4.9	139
197	Towards new formulations for polyacrylamide matrices: N-acryloylaminoethoxyethanol, a novel monomer combining high hydrophilicity with extreme hydrolytic stability. <i>Electrophoresis</i> , <b>1994</b> , 15, 177-86	3.6	127
196	New adsorbed coatings for capillary electrophoresis. <i>Electrophoresis</i> , <b>2000</b> , 21, 909-16	3.6	124
195	Characterization of a polymeric adsorbed coating for DNA microarray glass slides. <i>Analytical Chemistry</i> , <b>2004</b> , 76, 1352-8	7.8	117
194	A new polymeric coating for protein microarrays. <i>Analytical Biochemistry</i> , <b>2004</b> , 332, 67-74	3.1	111
193	A fast and simple label-free immunoassay based on a smartphone. <i>Biosensors and Bioelectronics</i> , <b>2014</b> , 58, 395-402	11.8	72
192	Capillary zone electrophoresis of DNA fragments in a novel polymer network: poly(N-acryloylaminoethoxyethanol). <i>Electrophoresis</i> , <b>1994</b> , 15, 616-22	3.6	71
191	Capillary zone electrophoresis in organic solvents: separation of anions in methanolic buffer solutions. <i>Journal of Chromatography A</i> , <b>1995</b> , 716, 303-309	4.5	69
190	Movement of DNA fragments during capillary zone electrophoresis in liquid polyacrylamide. <i>Journal of Chromatography A</i> , <b>1993</b> , 652, 31-39	4.5	69
189	Capillary electrophoretic separation of proteins using stable, hydrophilic poly(acryloylaminoethoxyethanol)-coated columns. <i>Journal of Chromatography A</i> , <b>1995</b> , 717, 1-13	4.5	68
188	Capillary electrophoresis of macromolecules in 'syrupy' solutions: facts and misfacts. <i>Electrophoresis</i> , <b>1992</b> , 13, 690-7	3.6	67
187	Protein microarray technology: how far off is routine diagnostics?. <i>Analyst, The</i> , <b>2014</b> , 139, 528-42	5	63
186	Preincubation with cysteine prevents modification of sulfhydryl groups in proteins by unreacted acrylamide in a gel. <i>Electrophoresis</i> , <b>1992</b> , 13, 882-4	3.6	62
185	Quantification of DNA and protein adsorption by optical phase shift. <i>Biosensors and Bioelectronics</i> , <b>2009</b> , 25, 167-72	11.8	60
184	High sensitivity protein assays on microarray silicon slides. <i>Analytical Chemistry</i> , <b>2009</b> , 81, 5197-203	7.8	60
183	Development of a high-sensitivity immunoassay for amyloid-beta 1-42 using a silicon microarray platform. <i>Biosensors and Bioelectronics</i> , <b>2013</b> , 47, 490-5	11.8	56

182	Synthesis and characterization of capillary columns coated with glycoside-bearing polymer. <i>Analytical Chemistry</i> , <b>1996</b> , 68, 2731-6	7.8	54
181	Determination of total vitamin C in fruits by capillary zone electrophoresis. <i>Journal of Chromatography A</i> , <b>1993</b> , 645, 197-200	4.5	53
180	Immobilized pH gradients: effect of salts, added carrier ampholytes and voltage gradients on protein patterns. <i>Electrophoresis</i> , <b>1988</b> , 9, 65-73	3.6	52
179	Direct observation of conformation of a polymeric coating with implications in microarray applications. <i>Analytical Chemistry</i> , <b>2009</b> , 81, 625-30	7.8	49
178	Label-free microarray imaging for direct detection of DNA hybridization and single-nucleotide mismatches. <i>Biosensors and Bioelectronics</i> , <b>2010</b> , 25, 1789-95	11.8	49
177	A new absorbed coating for DNA fragment analysis by capillary electrophoresis. <i>Electrophoresis</i> , <b>2000</b> , 21, 1521-6	3.6	49
176	Combinatorial synthesis of highly selective cyclohexapeptides for separation of amino Acid enantiomers by capillary electrophoresis. <i>Analytical Chemistry</i> , <b>1998</b> , 70, 4967-73	7.8	46
175	Coating of nitrocellulose for colorimetric DNA microarrays. <i>Analytical Biochemistry</i> , <b>2010</b> , 397, 84-8	3.1	45
174	Modulation of electroosmotic flow in capillary electrophoresis using functional polymer coatings. <i>Journal of Chromatography A</i> , <b>2012</b> , 1270, 324-9	4.5	44
173	Electroosmotic flow suppression in capillary electrophoresis: chemisorption of trimethoxy silane-modified polydimethylacrylamide. <i>Electrophoresis</i> , <b>2005</b> , 26, 1913-9	3.6	44
172	Enhancement of selectivity in capillary electrophoretic separations of metals and ligands through complex formation. <i>Journal of Chromatography A</i> , <b>1998</b> , 805, 1-15	4.5	43
171	Microarray glass slides coated with block copolymer brushes obtained by reversible addition chain-transfer polymerization. <i>Analytical Chemistry</i> , <b>2006</b> , 78, 3118-24	7.8	41
170	Loss of exosomes in progranulin-associated frontotemporal dementia. <i>Neurobiology of Aging</i> , <b>2016</b> , 40, 41-49	5.6	40
169	Universal hydrophilic coating of thermoplastic polymers currently used in microfluidics. <i>Biomedical Microdevices</i> , <b>2014</b> , 16, 107-14	3.7	40
168	Digital detection of biomarkers assisted by nanoparticles: application to diagnostics. <i>Trends in Biotechnology</i> , <b>2015</b> , 33, 343-51	15.1	36
167	Separations of DNA fragments by capillary electrophoresis in N-substituted polyacrylamides. <i>Journal of Chromatography A</i> , <b>1997</b> , 781, 347-355	4.5	36
166	A biofunctional polymeric coating for microcantilever molecular recognition. <i>Analytica Chimica Acta</i> , <b>2008</b> , 630, 161-7	6.6	36
165	Detection of allergen specific immunoglobulins by microarrays coupled to microfluidics. <i>Proteomics</i> , <b>2009</b> , 9, 2098-107	4.8	35

164	New types of separation matrices for electrophoresis. <i>Electrophoresis</i> , <b>1995</b> , 16, 1815-29	3.6	35
163	Prediction of current-voltage dependence and electrochemical calibration for capillary zone electrophoresis. <i>Journal of Chromatography A</i> , <b>1992</b> , 625, 323-330	4.5	34
162	Multimodal open-tubular capillary electrochromatographic analysis of amines and peptides. <i>Electrophoresis</i> , <b>2002</b> , 23, 2982-9	3.6	33
161	Pherogram normalization in capillary electrophoresis and micellar electrokinetic chromatography analyses in cases of sample matrix-induced migration time shifts. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , <b>2002</b> , 770, 45-51	3.2	33
160	Integrated platform for detecting pathogenic DNA via magnetic tunneling junction-based biosensors. <i>Sensors and Actuators B: Chemical</i> , <b>2017</b> , 242, 280-287	8.5	32
159	Allergen immobilisation and signal amplification by quantum dots for use in a biosensor assay of IgE in serum. <i>Biosensors and Bioelectronics</i> , <b>2014</b> , 52, 82-8	11.8	32
158	Peptide microarrays for the characterization of antigenic regions of human chromogranin A. <i>Proteomics</i> , <b>2005</b> , 5, 3600-3	4.8	32
157	Rapid capillary coating by epoxy-poly-(dimethylacrylamide): performance in capillary zone electrophoresis of protein and polystyrene carboxylate. <i>Electrophoresis</i> , <b>2001</b> , 22, 656-9	3.6	32
156	Allergen microarrays on high-sensitivity silicon slides. <i>Analytical and Bioanalytical Chemistry</i> , <b>2010</b> , 398, 1723-33	4.4	31
155	Separation of organic acids by capillary zone electrophoresis in buffers containing divalent metal cations. <i>Journal of Chromatography A</i> , <b>1996</b> , 745, 93-101	4.5	31
154	Screening Complex Biological Samples with Peptide Microarrays: The Favorable Impact of Probe Orientation via Chemoselective Immobilization Strategies on Clickable Polymeric Coatings. <i>Bioconjugate Chemistry</i> , <b>2016</b> , 27, 2669-2677	6.3	31
153	Rational epitope design for protein targeting. <i>ACS Chemical Biology</i> , <b>2013</b> , 8, 397-404	4.9	30
152	Focusing of pepsin in strongly acidic immobilized pH gradients. <i>Journal of Proteomics</i> , <b>1988</b> , 16, 185-92		29
151	Click Chemistry Immobilization of Antibodies on Polymer Coated Gold Nanoparticles. <i>Langmuir</i> , <b>2016</b> , 32, 7435-41	4	29
150	Capillary electrophoresis of polymerase chain reaction-amplified products in polymer networks: the case of Kennedy's disease. <i>Electrophoresis</i> , <b>1994</b> , 15, 644-6	3.6	28
149	The Immobiline family: from "vacuum" to "plenum" chemistry. <i>Electrophoresis</i> , <b>1992</b> , 13, 187-91	3.6	28
148	Functionalization of poly(dimethylsiloxane) by chemisorption of copolymers: DNA microarrays for pathogen detection. <i>Sensors and Actuators B: Chemical</i> , <b>2008</b> , 132, 258-264	8.5	27
147	HydroLink gel electrophoresis (HLGE). I. Matrix characterization. <i>Journal of Proteomics</i> , <b>1989</b> , 19, 37-49		27

146	Evidence that the Human Innate Immune Peptide LL-37 may be a Binding Partner of Amyloid- $\beta$ and Inhibitor of Fibril Assembly. <i>Journal of Alzheimer's Disease</i> , <b>2017</b> , 59, 1213-1226	4.3	27
145	New Clickable $\beta$ polymeric coating for glycan microarrays. <i>Sensors and Actuators B: Chemical</i> , <b>2015</b> , 215, 412-420	8.5	26
144	Multiplexed method to calibrate and quantitate fluorescence signal for allergen-specific IgE. <i>Analytical Chemistry</i> , <b>2011</b> , 83, 9485-91	7.8	26
143	Silicon biochips for dual label-free and fluorescence detection: Application to protein microarray development. <i>Biosensors and Bioelectronics</i> , <b>2011</b> , 26, 3938-43	11.8	26
142	Detection of the R553X DNA single point mutation related to cystic fibrosis by a "chiral box" D-lysine-peptide nucleic acid probe by capillary electrophoresis. <i>Electrophoresis</i> , <b>2005</b> , 26, 4310-6	3.6	26
141	Separation of charged and neutral isotopic molecules by micellar electrokinetic chromatography in coated capillaries. <i>Journal of Chromatography A</i> , <b>1994</b> , 680, 571-577	4.5	26
140	Membrane-binding peptides for extracellular vesicles on-chip analysis. <i>Journal of Extracellular Vesicles</i> , <b>2020</b> , 9, 1751428	16.4	26
139	Multispot, label-free biodetection at a phantom plastic-water interface. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2013</b> , 110, 9350-5	11.5	25
138	Breath figures-mediated microprinting allows for versatile applications in molecular biology. <i>European Polymer Journal</i> , <b>2009</b> , 45, 3027-3034	5.2	25
137	Separation of DNA fragments in hydroxylated poly(dimethylacrylamide) copolymers. <i>Electrophoresis</i> , <b>2002</b> , 23, 536-41	3.6	25
136	Synthesis of Clickable Coating Polymers by Postpolymerization Modification: Applications in Microarray Technology. <i>Langmuir</i> , <b>2016</b> , 32, 10284-10295	4	25
135	Interferometric silicon biochips for label and label-free DNA and protein microarrays. <i>Proteomics</i> , <b>2012</b> , 12, 2963-77	4.8	24
134	Separation of neutral compounds by capillary electrokinetic chromatography using polyethyleneimine as replaceable cationic pseudostationary phase. <i>Electrophoresis</i> , <b>1998</b> , 19, 2124-8	3.6	24
133	Use of peptide nucleic acid probes for detecting DNA single-base mutations by capillary electrophoresis. <i>Electrophoresis</i> , <b>2002</b> , 23, 926-9	3.6	24
132	Separation of oligonucleotides and DNA fragments by capillary electrophoresis in dynamically and permanently coated capillaries, using a copolymer of acrylamide and beta-D-glucopyranoside as a new low viscosity matrix with high sieving capacity. <i>Electrophoresis</i> , <b>1998</b> , 19, 3154-9	3.6	23
131	External electric field control of electroosmotic flow in non-coated and coated fused-silica capillaries and its application for capillary electrophoretic separations of peptides. <i>Biomedical Applications</i> , <b>2000</b> , 741, 43-54		23
130	Isoelectric focusing in immobilized pH gradients. <i>Analytical Chemistry</i> , <b>1989</b> , 61, 1602-1612	7.8	23
129	Multiple epitope presentation and surface density control enabled by chemoselective immobilization lead to enhanced performance in IgE-binding fingerprinting on peptide microarrays. <i>Analytica Chimica Acta</i> , <b>2017</b> , 983, 189-197	6.6	22

128	Computational Analysis of Dengue Virus Envelope Protein (E) Reveals an Epitope with Flavivirus Immunodiagnostic Potential in Peptide Microarrays. <i>International Journal of Molecular Sciences</i> , <b>2019</b> , 20,	6.3	21
127	COLD-PCR and microarray: two independent highly sensitive approaches allowing the identification of fetal paternally inherited mutations in maternal plasma. <i>Journal of Medical Genetics</i> , <b>2016</b> , 53, 481-7	5.8	21
126	Enhancing Antibody Serodiagnosis Using a Controlled Peptide Coimmobilization Strategy. <i>ACS Infectious Diseases</i> , <b>2018</b> , 4, 998-1006	5.5	20
125	Quantification of surface etching by common buffers and implications on the accuracy of label-free biological assays. <i>Biosensors and Bioelectronics</i> , <b>2012</b> , 36, 222-9	11.8	20
124	Optical sensing in microfluidic lab-on-a-chip by femtosecond-laser-written waveguides. <i>Analytical and Bioanalytical Chemistry</i> , <b>2009</b> , 393, 1209-16	4.4	20
123	Preparative isoelectric focusing in multicompartement electrolyzers: novel, hydrolytically stable and hydrophilic isoelectric membranes. <i>Electrophoresis</i> , <b>1994</b> , 15, 953-9	3.6	20
122	Evolving serodiagnostics by rationally designed peptide arrays: the Burkholderia paradigm in Cystic Fibrosis. <i>Scientific Reports</i> , <b>2016</b> , 6, 32873	4.9	19
121	Performances of new sugar-bearing poly(acrylamide) copolymers as DNA sieving matrices and capillary coatings for electrophoresis. <i>Electrophoresis</i> , <b>2001</b> , 22, 699-706	3.6	19
120	Evaluation of new adsorbed coatings in chiral capillary electrophoresis and the partial filling technique. <i>Electrophoresis</i> , <b>2000</b> , 21, 2343-51	3.6	19
119	Vinylpyrrolidone-beta-cyclodextrin copolymer: a novel chiral selector for capillary electrophoresis. <i>Electrophoresis</i> , <b>1999</b> , 20, 2614-8	3.6	19
118	New types of large-pore polyacrylamide-agarose mixed-bed matrices for DNA electrophoresis: pore size estimation from Ferguson plots of DNA fragments. <i>Electrophoresis</i> , <b>1995</b> , 16, 1337-44	3.6	19
117	Synthesis of thiomorpholino buffers for isoelectric focusing in immobilized pH gradients. <i>Electrophoresis</i> , <b>1990</b> , 11, 617-20	3.6	19
116	Formation of a cysteine-acrylamide adduct in isoelectric focusing gels. <i>Journal of Chromatography A</i> , <b>1990</b> , 500, 697-704	4.5	19
115	Synthesis of an hydrophilic, pK 8.05 buffer for isoelectric focusing in immobilized pH gradients. <i>Journal of Proteomics</i> , <b>1990</b> , 21, 165-72		19
114	Genotyping of single nucleotide polymorphisms by melting curve analysis using thin film semi-transparent heaters integrated in a lab-on-foil system. <i>Lab on A Chip</i> , <b>2013</b> , 13, 2075-82	7.2	18
113	Low viscosity DNA sieving matrices for capillary electrophoresis. <i>TrAC - Trends in Analytical Chemistry</i> , <b>1998</b> , 17, 623-632	14.6	18
112	Decreased protein peak asymmetry and width due to static capillary coating with hydrophilic derivatives of polydimethylacrylamide. <i>Electrophoresis</i> , <b>2002</b> , 23, 2274-8	3.6	18
111	Separation of proteins in a multicompartement electrolyzer with chambers defined by a bed of gel beads. <i>Electrophoresis</i> , <b>2003</b> , 24, 577-81	3.6	18

110	SARS-CoV-2 Epitope Mapping on Microarrays Highlights Strong Immune-Response to N Protein Region. <i>Vaccines</i> , <b>2021</b> , 9,	5.3	18
109	Microchips and single-photon avalanche diodes for DNA separation with high sensitivity. <i>Electrophoresis</i> , <b>2006</b> , 27, 3797-804	3.6	17
108	Polyacrylamide gel polymerization under non-oxidizing conditions, as monitored by capillary zone electrophoresis. <i>Journal of Chromatography A</i> , <b>1992</b> , 598, 287-297	4.5	17
107	High-resolution electrophoretic separation and integrated-waveguide excitation of fluorescent DNA molecules in a lab on a chip. <i>Electrophoresis</i> , <b>2010</b> , 31, 2584-8	3.6	16
106	Advanced polymers for molecular recognition and sensing at the interface. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , <b>2008</b> , 866, 89-103	3.2	16
105	Acrylamide-agarose copolymers: improved resolution of high molecular mass proteins in two-dimensional gel electrophoresis. <i>Proteomics</i> , <b>2005</b> , 5, 2331-9	4.8	16
104	A neutral polyacrylate copolymer coating for surface modification of thiol-ene microchannels for improved performance of protein separation by microchip electrophoresis. <i>Mikrochimica Acta</i> , <b>2016</b> , 183, 2111-2121	5.8	15
103	Overcoming mass transport limitations to achieve femtomolar detection limits on silicon protein microarrays. <i>Analytical Biochemistry</i> , <b>2011</b> , 418, 164-6	3.1	15
102	Use of cyclofructan as a potential complexing agent in capillary electrophoresis. <i>Journal of Chromatography A</i> , <b>1999</b> , 838, 111-119	4.5	15
101	Carrier ampholyte-mediated oxidation of proteins in isoelectric focusing. <i>Journal of Chromatography A</i> , <b>1989</b> , 475, 283-292	4.5	15
100	Electroosmotic flow in polymer-coated slits: a joint experimental/simulation study. <i>Microfluidics and Nanofluidics</i> , <b>2015</b> , 18, 475-482	2.8	14
99	DNA microarray-based solid-phase PCR on copoly (DMA-NAS-MAPS) silicon coated slides: An example of relevant clinical application. <i>Biosensors and Bioelectronics</i> , <b>2016</b> , 78, 367-373	11.8	14
98	Characterization of poly(dimethylacrylamide) and the combination of poly(vinyl alcohol) and cetyltrimethylammonium bromide as dynamic electroosmotic flow suppression agents in capillary electrophoresis. <i>Journal of Chromatography A</i> , <b>1998</b> , 817, 15-23	4.5	14
97	Genotyping beta-globin gene mutations on copolymer-coated glass slides with the ligation detection reaction. <i>Clinical Chemistry</i> , <b>2008</b> , 54, 1657-63	5.5	14
96	Advances in parallel screening of drug candidates. <i>Current Medicinal Chemistry</i> , <b>2008</b> , 15, 1706-19	4.3	14
95	Surface behavior and molecular recognition in DNA microarrays from N,N-dimethylacrylamide terpolymers with activated esters as linking groups. <i>Macromolecular Bioscience</i> , <b>2006</b> , 6, 719-29	5.5	14
94	Kinetics of cysteine oxidation in immobilized pH gradient gels. <i>Journal of Chromatography A</i> , <b>1990</b> , 499, 699-711	4.5	14
93	A self-assembling peptide hydrogel for ultrarapid 3D bioassays. <i>Nanoscale Advances</i> , <b>2019</b> , 1, 490-497	5.1	13

92	One-pot phase transfer and surface modification of CdSe-ZnS quantum dots using a synthetic functional copolymer. <i>Chemical Communications</i> , <b>2014</b> , 50, 240-2	5.8	13
91	Characterization of a new fluorescence-enhancing substrate for microarrays with femtomolar sensitivity. <i>Sensors and Actuators B: Chemical</i> , <b>2014</b> , 192, 15-22	8.5	13
90	Neutral polymers as coatings for high resolution electrophoretic separation of A $\beta$ peptides on glass microchips. <i>Analyst, The</i> , <b>2014</b> , 139, 6547-55	5	13
89	Synthesis and conformational characterization of functional di-block copolymer brushes for microarray technology. <i>Applied Surface Science</i> , <b>2012</b> , 258, 3750-3756	6.7	13
88	A new microarray substrate for ultra-sensitive genotyping of KRAS and BRAF gene variants in colorectal cancer. <i>PLoS ONE</i> , <b>2013</b> , 8, e59939	3.7	13
87	Synthesis of a new acrylamido buffer (acryloylhistamine) for isoelectric focusing in immobilized pH gradients and its analysis by capillary zone electrophoresis. <i>Journal of Chromatography A</i> , <b>1991</b> , 558, 285-295	4.5	13
86	Analysis of KRAS, NRAS and BRAF mutational profile by combination of in-tube hybridization and universal tag-microarray in tumor tissue and plasma of colorectal cancer patients. <i>PLoS ONE</i> , <b>2018</b> , 13, e0207876	3.7	13
85	Peptides for Infectious Diseases: From Probe Design to Diagnostic Microarrays. <i>Antibodies</i> , <b>2019</b> , 8,	7	12
84	Multi-spot, label-free immunoassay on reflectionless glass. <i>Biosensors and Bioelectronics</i> , <b>2015</b> , 74, 539-451.8	4.8	12
83	Characterization of porous alumina membranes for efficient, real-time, flow through biosensing. <i>Journal of Membrane Science</i> , <b>2015</b> , 476, 128-135	9.6	12
82	Reactive Microcontact Printing of DNA Probes on (DMA-NAS-MAPS) Copolymer-Coated Substrates for Efficient Hybridization Platforms. <i>Langmuir</i> , <b>2016</b> , 32, 3308-13	4	12
81	Chiral capillary electrophoresis and nuclear magnetic resonance investigation on the structure-enantioselectivity relationship in synthetic cyclopeptides as chiral selectors. <i>Electrophoresis</i> , <b>2001</b> , 22, 1373-84	3.6	12
80	Poly(vinylamine)-coated capillaries with reversed electroosmotic flow for the separation of organic anions. <i>Journal of Chromatography A</i> , <b>1999</b> , 836, 81-91	4.5	12
79	Enzyme reactions in a multicompartement electrolyzer with isoelectrically trapped enzymes. <i>Journal of Proteomics</i> , <b>1996</b> , 31, 93-104		12
78	Towards new formulations for polyacrylamide matrices, as investigated by capillary zone electrophoresis. <i>Journal of Chromatography A</i> , <b>1993</b> , 638, 165-178	4.5	12
77	Evaluation of three advanced methodologies, COLD-PCR, microarray and ddPCR, for identifying the mutational status by liquid biopsies in metastatic colorectal cancer patients. <i>Clinica Chimica Acta</i> , <b>2019</b> , 489, 136-143	6.2	12
76	Real time optical immunosensing with flow-through porous alumina membranes. <i>Sensors and Actuators B: Chemical</i> , <b>2014</b> , 202, 834-839	8.5	11
75	Surface chemistry and morphology in single particle optical imaging. <i>Nanophotonics</i> , <b>2017</b> , 6, 713-730	6.3	11



74	Isoelectric focusing in immobilized pH gradients. <i>Methods in Enzymology</i> , <b>1996</b> , 270, 235-55	1.7	11
73	Polymer Coatings to Minimize Protein Adsorption in Solid-State Nanopores. <i>Small Methods</i> , <b>2020</b> , 4, 2000137	1.7	11
72	Combined mass quantitation and phenotyping of intact extracellular vesicles by a microarray platform. <i>Analytica Chimica Acta</i> , <b>2016</b> , 902, 160-167	6.6	10
71	Different approaches for noninvasive prenatal diagnosis of genetic diseases based on PNA-mediated enriched PCR. <i>Annals of the New York Academy of Sciences</i> , <b>2006</b> , 1075, 137-43	6.5	10
70	Use of high-molecular-mass polyacrylamides as matrices for microchip electrophoresis of DNA fragments. <i>Electrophoresis</i> , <b>2003</b> , 24, 3793-9	3.6	10
69	Allylamine-beta-cyclodextrin copolymer. A novel chiral selector for capillary electrophoresis. <i>Journal of Chromatography A</i> , <b>2000</b> , 894, 95-103	4.5	10
68	Capillary electrophoresis of nicotinamideadenine dinucleotide and nicotinamideadenine dinucleotide phosphate derivatives in coated tubular columns. <i>Journal of Chromatography A</i> , <b>1994</b> , 670, 215-221	4.5	10
67	Structure-stability relationship of Immobiline chemicals for isoelectric focusing as monitored by capillary zone electrophoresis. <i>Journal of Chromatography A</i> , <b>1991</b> , 548, 381-392	4.5	10
66	Oxidation of cysteine to cysteic acid in proteins by peroxyacids, as monitored by immobilized pH gradients. <i>Electrophoresis</i> , <b>1991</b> , 12, 376-7	3.6	10
65	Use of quantum dots as mass and fluorescence labels in microarray biosensing. <i>Talanta</i> , <b>2016</b> , 147, 397-401	4.1	9
64	Separation of DNA in a versatile microchip. <i>Sensors and Actuators B: Chemical</i> , <b>2005</b> , 107, 975-979	8.5	9
63	Capillary electrophoresis investigation on the structure-enantioselectivity relationship in synthetic cyclopeptides as chiral selectors. <i>Electrophoresis</i> , <b>2001</b> , 22, 3257-62	3.6	9
62	Physico-chemical properties of amphoteric, isoelectric, macroreticulate buffers. <i>Journal of Proteomics</i> , <b>1991</b> , 23, 115-30		9
61	Novel polymeric coatings with tailored hydrophobicity to control spot size and morphology in DNA microarray. <i>Sensors and Actuators B: Chemical</i> , <b>2016</b> , 231, 412-422	8.5	9
60	Advantageous antibody microarray fabrication through DNA-directed immobilization: A step toward use of extracellular vesicles in diagnostics. <i>Talanta</i> , <b>2021</b> , 222, 121542	6.2	9
59	Tuning capillary surface properties by charged polymeric coatings. <i>Journal of Chromatography A</i> , <b>2015</b> , 1414, 173-81	4.5	8
58	Simultaneous evaluation of multiple microarray surface chemistries through real-time interferometric imaging. <i>Analytical and Bioanalytical Chemistry</i> , <b>2020</b> , 412, 3477-3487	4.4	8
57	Towards precision medicine: the role and potential of protein and peptide microarrays. <i>Analyst, The</i> , <b>2019</b> , 144, 5353-5367	5	8

56	Leveraging on nanomechanical sensors to single out active small ligands for $\alpha$ -microglobulin. <i>Sensors and Actuators B: Chemical</i> , <b>2013</b> , 176, 1026-1031	8.5	8
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