

Marcella Chiari

List of Publications by Year in descending order

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211
papers

5,445
citations

87886

38
h-index

133244

59
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217
all docs

217
docs citations

217
times ranked

5098
citing authors

#	ARTICLE	IF	CITATIONS
1	Protein and peptide arrays: Recent trends and new directions. <i>New Biotechnology</i> , 2006, 23, 77-88.	2.7	238
2	Digital Detection of Exosomes by Interferometric Imaging. <i>Scientific Reports</i> , 2016, 6, 37246.	3.3	200
3	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
4	Characterization of A Polymeric Adsorbed Coating for DNA Microarray Glass Slides. <i>Analytical Chemistry</i> , 2004, 76, 1352-1358.	6.5	132
5	New adsorbed coatings for capillary electrophoresis. <i>Electrophoresis</i> , 2000, 21, 909-916.	2.4	129
6	A new polymeric coating for protein microarrays. <i>Analytical Biochemistry</i> , 2004, 332, 67-74.	2.4	129
7	A fast and simple label-free immunoassay based on a smartphone. <i>Biosensors and Bioelectronics</i> , 2014, 58, 395-402.	10.1	86
8	Capillary zone electrophoresis of DNA fragments in a novel polymer network: Poly(N-acryloylaminoethoxyethanol). <i>Electrophoresis</i> , 1994, 15, 616-622.	2.4	77
9	Capillary electrophoretic separation of proteins using stable, hydrophilic poly(acryloylaminoethoxyethanol)-coated columns. <i>Journal of Chromatography A</i> , 1995, 717, 1-13.	3.7	77
10	High Sensitivity Protein Assays on Microarray Silicon Slides. <i>Analytical Chemistry</i> , 2009, 81, 5197-5203.	6.5	75
11	Protein microarray technology: how far off is routine diagnostics?. <i>Analyst, The</i> , 2014, 139, 528-542.	3.5	75
12	Movement of DNA fragments during capillary zone electrophoresis in liquid polyacrylamide. <i>Journal of Chromatography A</i> , 1993, 652, 31-39.	3.7	73
13	Capillary electrophoresis of macromolecules in "syrupy" solutions: Facts and misfacts. <i>Electrophoresis</i> , 1992, 13, 690-697.	2.4	70
14	Capillary zone electrophoresis in organic solvents: separation of anions in methanolic buffer solutions. <i>Journal of Chromatography A</i> , 1995, 716, 303-309.	3.7	70
15	Quantification of DNA and protein adsorption by optical phase shift. <i>Biosensors and Bioelectronics</i> , 2009, 25, 167-172.	10.1	69
16	Development of a high-sensitivity immunoassay for amyloid-beta 1 β 42 using a silicon microarray platform. <i>Biosensors and Bioelectronics</i> , 2013, 47, 490-495.	10.1	69
17	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
18	Determination of total vitamin C in fruits by capillary zone electrophoresis. <i>Journal of Chromatography A</i> , 1993, 645, 197-200.	3.7	63

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19	Label-free microarray imaging for direct detection of DNA hybridization and single-nucleotide mismatches. <i>Biosensors and Bioelectronics</i> , 2010, 25, 1789-1795.	10.1	60
20	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
21	Direct Observation of Conformation of a Polymeric Coating with Implications in Microarray Applications. <i>Analytical Chemistry</i> , 2009, 81, 625-630.	6.5	56
22	Digital detection of biomarkers assisted by nanoparticles: application to diagnostics. <i>Trends in Biotechnology</i> , 2015, 33, 343-351.	9.3	56
23	Synthesis and Characterization of Capillary Columns Coated with Glycoside-Bearing Polymer. <i>Analytical Chemistry</i> , 1996, 68, 2731-2736.	6.5	54
24	A new absorbed coating for DNA fragment analysis by capillary electrophoresis. <i>Electrophoresis</i> , 2000, 21, 1521-1526.	2.4	53
25	Combinatorial Synthesis of Highly Selective Cyclohexapeptides for Separation of Amino Acid Enantiomers by Capillary Electrophoresis. <i>Analytical Chemistry</i> , 1998, 70, 4967-4973.	6.5	49
26	Coating of nitrocellulose for colorimetric DNA microarrays. <i>Analytical Biochemistry</i> , 2010, 397, 84-88.	2.4	48
27	Electroosmotic flow suppression in capillary electrophoresis: Chemisorption of trimethoxy silane-modified polydimethylacrylamide. <i>Electrophoresis</i> , 2005, 26, 1913-1919.	2.4	47
28	Universal hydrophilic coating of thermoplastic polymers currently used in microfluidics. <i>Biomedical Microdevices</i> , 2014, 16, 107-114.	2.8	47
29	Loss of exosomes in progranulin-associated frontotemporal dementia. <i>Neurobiology of Aging</i> , 2016, 40, 41-49.	3.1	47
30	Membrane-binding peptides for extracellular vesicles on-chip analysis. <i>Journal of Extracellular Vesicles</i> , 2020, 9, 1751428.	12.2	47
31	Modulation of electroosmotic flow in capillary electrophoresis using functional polymer coatings. <i>Journal of Chromatography A</i> , 2012, 1270, 324-329.	3.7	46
32	Enhancement of selectivity in capillary electrophoretic separations of metals and ligands through complex formation. <i>Journal of Chromatography A</i> , 1998, 805, 1-15.	3.7	45
33	Integrated platform for detecting pathogenic DNA via magnetic tunneling junction-based biosensors. <i>Sensors and Actuators B: Chemical</i> , 2017, 242, 280-287.	7.8	45
34	Separations of DNA fragments by capillary electrophoresis in N-substituted polyacrylamides. <i>Journal of Chromatography A</i> , 1997, 781, 347-355.	3.7	44
35	Evidence that the Human Innate Immune Peptide LL-37 may be a Binding Partner of Amyloid- β^2 and Inhibitor of Fibril Assembly. <i>Journal of Alzheimer's Disease</i> , 2017, 59, 1213-1226.	2.6	44
36	Microarray Glass Slides Coated with Block Copolymer Brushes Obtained by Reversible Addition Chain-Transfer Polymerization. <i>Analytical Chemistry</i> , 2006, 78, 3118-3124.	6.5	42

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37	New types of separation matrices for electrophoresis. <i>Electrophoresis</i> , 1995, 16, 1815-1829.	2.4	40
38	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> , 2016, 27, 2669-2677.	3.6	40
39	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> , 2002, 770, 45-51.	2.3	39
40	A biofunctional polymeric coating for microcantilever molecular recognition. <i>Analytica Chimica Acta</i> , 2008, 630, 161-167.	5.4	39
41	Allergen immobilisation and signal amplification by quantum dots for use in a biosensor assay of IgE in serum. <i>Biosensors and Bioelectronics</i> , 2014, 52, 82-88.	10.1	39
42	SARS-CoV-2 Epitope Mapping on Microarrays Highlights Strong Immune-Response to N Protein Region. <i>Vaccines</i> , 2021, 9, 35.	4.4	38
43	Detection of allergen specific immunoglobulins by microarrays coupled to microfluidics. <i>Proteomics</i> , 2009, 9, 2098-2107.	2.2	37
44	Prediction of current-voltage dependence and electrochemical calibration for capillary zone electrophoresis. <i>Journal of Chromatography A</i> , 1992, 625, 323-330.	3.7	36
45	Rational Epitope Design for Protein Targeting. <i>ACS Chemical Biology</i> , 2013, 8, 397-404.	3.4	36
46	Focusing of pepsin in strongly acidic immobilized pH gradients. <i>Journal of Proteomics</i> , 1988, 16, 185-192.	2.4	35
47	Allergen microarrays on high-sensitivity silicon slides. <i>Analytical and Bioanalytical Chemistry</i> , 2010, 398, 1723-1733.	3.7	35
48	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> , 2013, 110, 9350-9355.	7.1	35
49	Click Chemistry Immobilization of Antibodies on Polymer Coated Gold Nanoparticles. <i>Langmuir</i> , 2016, 32, 7435-7441.	3.5	35
50	Synthesis of Clickable Coating Polymers by Postpolymerization Modification: Applications in Microarray Technology. <i>Langmuir</i> , 2016, 32, 10284-10295.	3.5	35
51	Multimodal open-tubular capillary electrochromatographic analysis of amines and peptides. <i>Electrophoresis</i> , 2002, 23, 2982-2989.	2.4	34
52	Rapid capillary coating by epoxy-poly-(dimethylacrylamide): Performance in capillary zone electrophoresis of protein and polystyrene carboxylate. <i>Electrophoresis</i> , 2001, 22, 656-659.	2.4	33
53	Separation of organic acids by capillary zone electrophoresis in buffers containing divalent metal cations. <i>Journal of Chromatography A</i> , 1996, 745, 93-101.	3.7	32
54	Peptide microarrays for the characterization of antigenic regions of human chromogranin A. <i>Proteomics</i> , 2005, 5, 3600-3603.	2.2	32

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55	Isoelectric focusing in immobilized pH gradients. <i>Analytical Chemistry</i> , 1989, 61, 1602-1612.	6.5	31
56	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> , 2019, 20, 1921.	4.1	31
57	Capillary electrophoresis of polymerase chain reaction-amplified products in polymer networks: The case of Kennedy's disease. <i>Electrophoresis</i> , 1994, 15, 644-646.	2.4	30
58	Separation of charged and neutral isotopic molecules by micellar electrokinetic chromatography in coated capillaries. <i>Journal of Chromatography A</i> , 1994, 680, 571-577.	3.7	30
59	Multiplexed Method to Calibrate and Quantitate Fluorescence Signal for Allergen-Specific IgE. <i>Analytical Chemistry</i> , 2011, 83, 9485-9491.	6.5	29
60	HydroLink™ gel electrophoresis (HLGE). I. Matrix characterization. <i>Journal of Proteomics</i> , 1989, 19, 37-49.	2.4	28
61	The Immobiline family: From "vacuum" to "plenum" chemistry. <i>Electrophoresis</i> , 1992, 13, 187-191.	2.4	28
62	Detection of the R553X DNA single point mutation related to cystic fibrosis by a "chiral box"-lysine-peptide nucleic acid probe by capillary electrophoresis. <i>Electrophoresis</i> , 2005, 26, 4310-4316.	2.4	28
63	Functionalization of poly(dimethylsiloxane) by chemisorption of copolymers: DNA microarrays for pathogen detection. <i>Sensors and Actuators B: Chemical</i> , 2008, 132, 258-264.	7.8	28
64	Silicon biochips for dual label-free and fluorescence detection: Application to protein microarray development. <i>Biosensors and Bioelectronics</i> , 2011, 26, 3938-3943.	10.1	28
65	New "clickable" polymeric coating for glycan microarrays. <i>Sensors and Actuators B: Chemical</i> , 2015, 215, 412-420.	7.8	28
66	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> , 2017, 983, 189-197.	5.4	27
67	Separation of oligonucleotides and DNA fragments by capillary electrophoresis in dynamically and permanently coated capillaries, using a copolymer of acrylamide and ¹² D-glucopyranoside as a new low viscosity matrix with high sieving capacity. <i>Electrophoresis</i> , 1998, 19, 3154-3159.	2.4	26
68	Separation of DNA fragments in hydroxylated poly(dimethylacrylamide) copolymers. <i>Electrophoresis</i> , 2002, 23, 536-541.	2.4	26
69	Optical sensing in microfluidic lab-on-a-chip by femtosecond-laser-written waveguides. <i>Analytical and Bioanalytical Chemistry</i> , 2009, 393, 1209-1216.	3.7	26
70	Breath figures-mediated microprinting allows for versatile applications in molecular biology. <i>European Polymer Journal</i> , 2009, 45, 3027-3034.	5.4	26
71	Interferometric silicon biochips for label and label-free DNA and protein microarrays. <i>Proteomics</i> , 2012, 12, 2963-2977.	2.2	26
72	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> , 2016, 53, 481-487.	3.2	26

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73	Separation of neutral compounds by capillary electrokinetic chromatography using polyethyleneimine as replaceable cationic pseudostationary phase. <i>Electrophoresis</i> , 1998, 19, 2124-2128.	2.4	25
74	Use of peptide nucleic acid probes for detecting DNA single-base mutations by capillary electrophoresis. <i>Electrophoresis</i> , 2002, 23, 926-929.	2.4	25
75	Enhancing Antibody Serodiagnosis Using a Controlled Peptide Coimmobilization Strategy. <i>ACS Infectious Diseases</i> , 2018, 4, 998-1006.	3.8	25
76	Polymer Coatings to Minimize Protein Adsorption in Solid-State Nanopores. <i>Small Methods</i> , 2020, 4, 2000177.	8.6	25
77	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> , 2000, 741, 43-54.	1.7	23
78	Quantification of surface etching by common buffers and implications on the accuracy of label-free biological assays. <i>Biosensors and Bioelectronics</i> , 2012, 36, 222-229.	10.1	23
79	Multi-spot, label-free immunoassay on reflectionless glass. <i>Biosensors and Bioelectronics</i> , 2015, 74, 539-545.	10.1	23
80	Preparative isoelectric focusing in multicompartement electrolyzers: Novel, hydrolytically stable and hydrophilic isoelectric membranes. <i>Electrophoresis</i> , 1994, 15, 953-959.	2.4	22
81	Vinylpyrrolidone- β -cyclodextrin copolymer: A novel chiral selector for capillary electrophoresis. <i>Electrophoresis</i> , 1999, 20, 2614-2618.	2.4	22
82	EV Separation: Release of Intact Extracellular Vesicles Immunocaptured on Magnetic Particles. <i>Analytical Chemistry</i> , 2021, 93, 5476-5483.	6.5	22
83	Synthesis of thiomorpholino buffers for isoelectric focusing in immobilized pH gradients. <i>Electrophoresis</i> , 1990, 11, 617-620.	2.4	21
84	Synthesis of an hydrophilic, pK 8.05 buffer for isoelectric focusing in immobilized pH gradients. <i>Journal of Proteomics</i> , 1990, 21, 165-172.	2.4	21
85	Low viscosity DNA sieving matrices for capillary electrophoresis. <i>TrAC - Trends in Analytical Chemistry</i> , 1998, 17, 623-632.	11.4	21
86	Performances of new sugar-bearing poly(acrylamide) copolymers as DNA sieving matrices and capillary coatings for electrophoresis. <i>Electrophoresis</i> , 2001, 22, 699-706.	2.4	21
87	Evolving serodiagnostics by rationally designed peptide arrays: the Burkholderia paradigm in Cystic Fibrosis. <i>Scientific Reports</i> , 2016, 6, 32873.	3.3	21
88	Formation of a cysteine-acrylamide adduct in isoelectric focusing gels. <i>Journal of Chromatography A</i> , 1990, 500, 697-704.	3.7	20
89	Decreased protein peak asymmetry and width due to static capillary coating with hydrophilic derivatives of polydimethylacrylamide. <i>Electrophoresis</i> , 2002, 23, 2274.	2.4	20
90	Microchips and single-photon avalanche diodes for DNA separation with high sensitivity. <i>Electrophoresis</i> , 2006, 27, 3797-3804.	2.4	20

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91	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> , 2013, 13, 2075.	6.0	20
92	Polyacrylamide gel polymerization under non-oxidizing conditions, as monitored by capillary zone electrophoresis. <i>Journal of Chromatography A</i> , 1992, 598, 287-297.	3.7	19
93	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> , 1995, 16, 1337-1344.	2.4	19
94	Evaluation of new adsorbed coatings in chiral capillary electrophoresis and the partial filling technique. <i>Electrophoresis</i> , 2000, 21, 2343-2351.	2.4	19
95	Synthesis and conformational characterization of functional di-block copolymer brushes for microarray technology. <i>Applied Surface Science</i> , 2012, 258, 3750-3756.	6.1	19
96	A self-assembling peptide hydrogel for ultrarapid 3D bioassays. <i>Nanoscale Advances</i> , 2019, 1, 490-497.	4.6	19
97	Non-Langmuir Kinetics of DNA Surface Hybridization. <i>Biophysical Journal</i> , 2020, 119, 989-1001.	0.5	19
98	Separation of proteins in a multicompartiment electrolyzer with chambers defined by a bed of gel beads. <i>Electrophoresis</i> , 2003, 24, 577-581.	2.4	18
99	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> , 2016, 183, 2111-2121.	5.0	18
100	Peptides for Infectious Diseases: From Probe Design to Diagnostic Microarrays. <i>Antibodies</i> , 2019, 8, 23.	2.5	18
101	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> , 2019, 489, 136-143.	1.1	18
102	Carrier ampholyte-mediated oxidation of proteins in isoelectric focusing. <i>Journal of Chromatography A</i> , 1989, 475, 283-292.	3.7	17
103	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> , 1998, 817, 15-23.	3.7	17
104	Advanced polymers for molecular recognition and sensing at the interface. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2008, 866, 89-103.	2.3	17
105	High-resolution electrophoretic separation and integrated waveguide excitation of fluorescent DNA molecules in a lab on a chip. <i>Electrophoresis</i> , 2010, 31, 2584-2588.	2.4	17
106	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> , 2018, 13, e0207876.	2.5	17
107	CovidArray: A Microarray-Based Assay with High Sensitivity for the Detection of Sars-Cov-2 in Nasopharyngeal Swabs. <i>Sensors</i> , 2021, 21, 2490.	3.8	17
108	Use of cyclofructan as a potential complexing agent in capillary electrophoresis. <i>Journal of Chromatography A</i> , 1999, 838, 111-119.	3.7	16

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109	Poly(vinylamine)-coated capillaries with reversed electroosmotic flow for the separation of organic anions. <i>Journal of Chromatography A</i> , 1999, 836, 81-91.	3.7	16
110	Acrylamide-agarose copolymers: Improved resolution of high molecular mass proteins in two-dimensional gel electrophoresis. <i>Proteomics</i> , 2005, 5, 2331-2339.	2.2	16
111	Surface Behavior and Molecular Recognition in DNA Microarrays from N,N-Dimethylacrylamide Terpolymers with Activated Esters as Linking Groups. <i>Macromolecular Bioscience</i> , 2006, 6, 719-729.	4.1	16
112	Overcoming mass transport limitations to achieve femtomolar detection limits on silicon protein microarrays. <i>Analytical Biochemistry</i> , 2011, 418, 164-166.	2.4	16
113	Electroosmotic flow in polymer-coated slits: a joint experimental/simulation study. <i>Microfluidics and Nanofluidics</i> , 2015, 18, 475-482.	2.2	16
114	DNA microarray-based solid-phase PCR on copoly (DMA- <i>co</i> -NAS- <i>co</i> -MAPS) silicon coated slides: An example of relevant clinical application. <i>Biosensors and Bioelectronics</i> , 2016, 78, 367-373.	10.1	16
115	Surface chemistry and morphology in single particle optical imaging. <i>Nanophotonics</i> , 2017, 6, 713-730.	6.0	16
116	Advantageous antibody microarray fabrication through DNA-directed immobilization: A step toward use of extracellular vesicles in diagnostics. <i>Talanta</i> , 2021, 222, 121542.	5.5	16
117	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> , 1991, 558, 285-295.	3.7	15
118	[10] Isoelectric focusing in immobilized pH gradients. <i>Methods in Enzymology</i> , 1996, 270, 235-255.	1.0	15
119	Advances in Parallel Screening of Drug Candidates. <i>Current Medicinal Chemistry</i> , 2008, 15, 1706-1719.	2.4	15
120	Real time optical immunosensing with flow-through porous alumina membranes. <i>Sensors and Actuators B: Chemical</i> , 2014, 202, 834-839.	7.8	15
121	Kinetics of cysteine oxidation in immobilized pH gradient gels. <i>Journal of Chromatography A</i> , 1990, 499, 699-711.	3.7	14
122	Capillary electrophoresis of nicotinamide-adenine dinucleotide and nicotinamide-adenine dinucleotide phosphate derivatives in coated tubular columns. <i>Journal of Chromatography A</i> , 1994, 670, 215-221.	3.7	14
123	Genotyping β -Globin Gene Mutations on Copolymer-Coated Glass Slides with the Ligation Detection Reaction. <i>Clinical Chemistry</i> , 2008, 54, 1657-1663.	3.2	14
124	One-pot phase transfer and surface modification of CdSe-ZnS quantum dots using a synthetic functional copolymer. <i>Chemical Communications</i> , 2014, 50, 240-242.	4.1	14
125	Characterization of a new fluorescence-enhancing substrate for microarrays with femtomolar sensitivity. <i>Sensors and Actuators B: Chemical</i> , 2014, 192, 15-22.	7.8	14
126	Towards precision medicine: the role and potential of protein and peptide microarrays. <i>Analyst</i> , The, 2019, 144, 5353-5367.	3.5	14

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127	Towards new formulations for polyacrylamide matrices, as investigated by capillary zone electrophoresis. <i>Journal of Chromatography A</i> , 1993, 638, 165-178.	3.7	13
128	Enzyme reactions in a multicompartement electrolyzer with isoelectrically trapped enzymes. <i>Journal of Proteomics</i> , 1996, 31, 93-104.	2.4	13
129	Chiral capillary electrophoresis and nuclear magnetic resonance investigation on the structure-enantioselectivity relationship in synthetic cyclopeptides as chiral selectors. <i>Electrophoresis</i> , 2001, 22, 1373-1384.	2.4	13
130	A New Microarray Substrate for Ultra-Sensitive Genotyping of KRAS and BRAF Gene Variants in Colorectal Cancer. <i>PLoS ONE</i> , 2013, 8, e59939.	2.5	13
131	Neutral polymers as coatings for high resolution electrophoretic separation of A $\hat{1}^2$ peptides on glass microchips. <i>Analyst</i> , The, 2014, 139, 6547-6555.	3.5	13
132	Characterization of porous alumina membranes for efficient, real-time, flow through biosensing. <i>Journal of Membrane Science</i> , 2015, 476, 128-135.	8.2	13
133	Reactive Microcontact Printing of DNA Probes on (DMA-NAS-MAPS) Copolymer-Coated Substrates for Efficient Hybridization Platforms. <i>Langmuir</i> , 2016, 32, 3308-3313.	3.5	13
134	Microarray Approach Combined with ddPCR: An Useful Pipeline for the Detection and Quantification of Circulating Tumour dna Mutations. <i>Cells</i> , 2019, 8, 769.	4.1	13
135	Structure-stability relationship of Immobiline chemicals for isoelectric focusing as monitored by capillary zone electrophoresis. <i>Journal of Chromatography A</i> , 1991, 548, 381-392.	3.7	12
136	Oxidation of cysteine to cysteic acid in proteins by peroxyacids, as monitored by immobilized pH gradients. <i>Electrophoresis</i> , 1991, 12, 376-377.	2.4	12
137	Capillary electrophoresis investigation on the structure-enantioselectivity relationship in synthetic cyclopeptides as chiral selectors. <i>Electrophoresis</i> , 2001, 22, 3257-3262.	2.4	12
138	Spectral Reflectance Imaging for a Multiplexed, High-Throughput, Label-Free, and Dynamic Biosensing Platform. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2010, 16, 635-646.	2.9	12
139	Novel polymeric coatings with tailored hydrophobicity to control spot size and morphology in DNA microarray. <i>Sensors and Actuators B: Chemical</i> , 2016, 231, 412-422.	7.8	12
140	Use of high-molecular-mass polyacrylamides as matrices for microchip electrophoresis of DNA fragments. <i>Electrophoresis</i> , 2003, 24, 3793-3799.	2.4	11
141	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> , 2006, 1075, 137-143.	3.8	11
142	Combined mass quantitation and phenotyping of intact extracellular vesicles by a microarray platform. <i>Analytica Chimica Acta</i> , 2016, 902, 160-167.	5.4	11
143	Use of quantum dots as mass and fluorescence labels in microarray biosensing. <i>Talanta</i> , 2016, 147, 397-401.	5.5	11
144	BPSL1626: Reverse and Structural Vaccinology Reveal a Novel Candidate for Vaccine Design Against <i>Burkholderia pseudomallei</i> . <i>Antibodies</i> , 2018, 7, 26.	2.5	11

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145	Array of multifunctional polymers for localized immobilization of biomolecules on microarray substrates. <i>Analytica Chimica Acta</i> , 2019, 1047, 188-196.	5.4	11
146	Allylamine- β -cyclodextrin copolymer. <i>Journal of Chromatography A</i> , 2000, 894, 95-103.	3.7	10
147	Separation of DNA in a versatile microchip. <i>Sensors and Actuators B: Chemical</i> , 2005, 107, 975-979.	7.8	10
148	Leveraging on nanomechanical sensors to single out active small ligands for β 2-microglobulin. <i>Sensors and Actuators B: Chemical</i> , 2013, 176, 1026-1031.	7.8	10
149	Discrimination of molecular thin films by surface-sensitive time-resolved optical spectroscopy. <i>Applied Physics Letters</i> , 2015, 107, .	3.3	10
150	Simultaneous evaluation of multiple microarray surface chemistries through real-time interferometric imaging. <i>Analytical and Bioanalytical Chemistry</i> , 2020, 412, 3477-3487.	3.7	10
151	Extracellular Vesicles Analysis in the COVID-19 Era: Insights on Serum Inactivation Protocols towards Downstream Isolation and Analysis. <i>Cells</i> , 2021, 10, 544.	4.1	10
152	Physico-chemical properties of amphoteric, isoelectric, macroreticulate buffers. <i>Journal of Proteomics</i> , 1991, 23, 115-130.	2.4	9
153	Chiral separation of muscarinic antagonists by capillary zone electrophoresis with cyclodextrin additives. <i>Journal of Chromatography A</i> , 1996, 741, 287-294.	3.7	9
154	Use of a fluorosurfactant in micellar electrokinetic capillary chromatography. <i>Journal of Chromatography A</i> , 2001, 916, 73-78.	3.7	9
155	Precisely Controlled Smart Polymer Scaffold for Nanoscale Manipulation of Biomolecules. <i>Analytical Chemistry</i> , 2012, 84, 10593-10599.	6.5	9
156	COLD-PCR and Innovative Microarray Substrates for Detecting and Genotyping MPL Exon 10 W515 Substitutions. <i>Clinical Chemistry</i> , 2012, 58, 1692-1702.	3.2	9
157	Tuning capillary surface properties by charged polymeric coatings. <i>Journal of Chromatography A</i> , 2015, 1414, 173-181.	3.7	9
158	Clickable cellulosic surfaces for peptide-based bioassays. <i>Talanta</i> , 2019, 205, 120152.	5.5	9
159	Differential Impedance Sensing platform for high selectivity antibody detection down to few counts: A case study on Dengue Virus. <i>Biosensors and Bioelectronics</i> , 2022, 202, 113996.	10.1	9
160	Macroreticulate buffers: a novel approach to pH control in living systems. <i>Journal of Biotechnology</i> , 1991, 17, 169-176.	3.8	8
161	Capillary zone electrophoresis analysis of acrylamido buffers for isoelectric focusing in immobilized pH gradients. <i>Journal of Chromatography A</i> , 1991, 559, 119-131.	3.7	8
162	Analysis of acrylamido-buffers for isoelectric focusing by capillary zone electrophoresis. <i>Electrophoresis</i> , 1991, 12, 55-58.	2.4	8

#	ARTICLE	IF	CITATIONS
163	Capillary Coatings: Choices for Capillary Electrophoresis of DNA. , 2001, 162, 125-138.		8
164	Nonconventional synthesis and characterization of ultrahigh-molar-mass polyacrylamides. Electrophoresis, 2003, 24, 2322-2327.	2.4	8
165	High-throughput mutational screening for beta-thalassemia by single-nucleotide extension. Electrophoresis, 2007, 28, 4289-4294.	2.4	8
166	Development of new substrates for high-sensitive genotyping of minority mutated alleles. Electrophoresis, 2008, 29, 4714-4722.	2.4	8
167	A 6Å–8 photon-counting array detector system for fast and sensitive analysis of protein microarrays. Sensors and Actuators B: Chemical, 2010, 149, 420-426.	7.8	8
168	Controlling electroosmotic flows by polymer coatings: A joint experimental-theoretical investigation. Journal of Chemical Physics, 2015, 143, 184907.	3.0	8
169	Multi-spot, label-free detection of viral infection in complex media by a non-reflecting surface. Sensors and Actuators B: Chemical, 2016, 223, 957-962.	7.8	8
170	Designing Probes for Immunodiagnostics: Structural Insights into an Epitope Targeting <i>Burkholderia</i> Infections. ACS Infectious Diseases, 2017, 3, 736-743.	3.8	8
171	Composite Peptide-Agarose Hydrogels for Robust and High-Sensitivity 3D Immunoassays. ACS Applied Materials & Interfaces, 2022, 14, 4811-4822.	8.0	8
172	High-sensitive microarray substrates specifically designed to improve sensitivity for the identification of fetal paternally inherited sequences in maternal plasma. Clinical Chemistry and Laboratory Medicine, 2009, 47, 818-23.	2.3	7
173	Synthesis of hydrogel via click chemistry for DNA electrophoresis. Journal of Chromatography A, 2017, 1513, 226-234.	3.7	7
174	Electrophoretic separation of biopolymers in a matrix of polyacrylamide covalently linked to agarose. Electrophoresis, 1996, 17, 473-478.	2.4	6
175	Stereoselective synthesis of (S)-(+)-Naproxen catalyzed by carboxyl esterase in a multicompartement electrolyzer. Journal of Proteomics, 2001, 48, 247-256.	2.4	6
176	Flow-through, viral co-infection assay for resource-limited settings. Talanta, 2015, 132, 315-320.	5.5	6
177	Introduction to the special issue of optical biosensors. Nanophotonics, 2017, 6, 623-625.	6.0	6
178	Epitope Mapping of Human Chromogranin A by Peptide Microarrays. Methods in Molecular Biology, 2009, 570, 221-232.	0.9	6
179	Copolymer Coatings for DNA Biosensors: Effect of Charges and Immobilization Chemistries on Yield, Strength and Kinetics of Hybridization. Polymers, 2021, 13, 3897.	4.5	6
180	Polymeric Coating of Silica Microspheres for Biological Applications: Suppression of Non-Specific Binding and Functionalization with Biomolecules. Polymers, 2022, 14, 730.	4.5	6

#	ARTICLE	IF	CITATIONS
181	Optimization of the bio-functionalized area of magnetic biosensors. <i>European Physical Journal B</i> , 2013, 86, 1.	1.5	5
182	Novel fluorescent microarray platforms: a case study in neurodegenerative disorders. <i>Expert Review of Molecular Diagnostics</i> , 2013, 13, 863-873.	3.1	5
183	Optical and mechanical properties of streptavidin-conjugated gold nanospheres through data mining techniques. <i>Scientific Reports</i> , 2020, 10, 16230.	3.3	5
184	Peptide Microarrays on Coated Silicon Slides for Highly Sensitive Antibody Detection. <i>Methods in Molecular Biology</i> , 2010, 669, 147-160.	0.9	5
185	Surface Modifications by Polymers for Biomolecule Conjugation. <i>Methods in Molecular Biology</i> , 2013, 1025, 95-107.	0.9	5
186	A bi-functional polymeric coating for the co-immobilization of proteins and peptides on microarray substrates. <i>Analytica Chimica Acta</i> , 2021, 1187, 339138.	5.4	5
187	Dual-color microchip electrophoresis with single-photon avalanche diodes: Application to mutation detection. <i>Electrophoresis</i> , 2008, 29, 4972-4975.	2.4	4
188	A Reliable, Label Free Quality Control Method for the Production of DNA Microarrays with Clinical Applications. <i>Polymers</i> , 2021, 13, 340.	4.5	4
189	Developments in Capillary Coating and DNA Separation Matrices. <i>Chromatographia CE Series</i> , 1997, , 135-173.	0.1	4
190	Surface immobilized hydrogels as versatile reagent reservoirs for microarrays. <i>Journal of Immunological Methods</i> , 2013, 391, 95-102.	1.4	3
191	Clickable Polymeric Coating for Oriented Peptide Immobilization. <i>Methods in Molecular Biology</i> , 2016, 1352, 167-182.	0.9	3
192	Fluorescence enhancement on reflecting substrates for microarray applications. , 2009, , .		2
193	Biomolecular Detection employing the Interferometric Reflectance Imaging Sensor (IRIS). <i>Journal of Visualized Experiments</i> , 2011, , .	0.3	2
194	Real-time polarimetric biosensing using macroporous alumina membranes. <i>Proceedings of SPIE</i> , 2013, , .	0.8	2
195	Precise control of DNA orientation for improved functionality in protein binding microarrays. , 2011, , .		1
196	Precise quantification and control of surface immobilized DNA orientation. , 2011, , .		1
197	Performance of a novel sieving matrix of poly(vinyl alcohol)/acrylamide copolymer in electrophoretic separations of high molecular weight proteins from red cell membrane. <i>Electrophoresis</i> , 2014, 35, 1081-1088.	2.4	1
198	Nanopore Protein Biosensor Using Diffusive Flow. <i>Japanese Journal of Applied Physics</i> , 2011, 50, 127002.	1.5	1

#	ARTICLE	IF	CITATIONS
199	Active Opto-Magnetic Biosensing with Silicon Microring Resonators. <i>Sensors</i> , 2022, 22, 3292.	3.8	1
200	Characterization of swelling of a polymeric coating for DNA microarray applications using spectral self-interference fluorescence microscopy. , 2007, , .		0
201	Spectral reflectance imaging biosensor for high-throughput and label-free detection of biomolecular interactions. , 2009, , .		0
202	Optical phase to biological mass conversion for label-free interferometric sensing methods. , 2009, , .		0
203	Measurement of potential dependent DNA orientation on Indium Tin Oxide surfaces by fluorescent-self interference microscopy. , 2010, , .		0
204	A high-throughput biosensor for detection and quantification of protein induced DNA bending. , 2011, , .		0
205	Nanopore Protein Biosensor Using Diffusive Flow. <i>Japanese Journal of Applied Physics</i> , 2011, 50, 127002.	1.5	0
206	Multiplexed, rapid, point of care device to quantify allergen-specific IgE. , 2011, , .		0
207	A nanoelectromechanical biosensor based on precise quantification and control of DNA orientation. , 2011, 2011, 4774-5.		0
208	Poly(N,N-Dimethylacrylamide)-Based Coatings to Modulate Electroosmotic Flow and Capillary Surface Properties for Protein Analysis. <i>Methods in Molecular Biology</i> , 2016, 1466, 107-119.	0.9	0
209	Clickable Polymeric Coating for Glycan Microarrays. <i>Methods in Molecular Biology</i> , 2017, 1518, 55-65.	0.9	0
210	Portable, Multispot, Label-Free Immunoassay on a Phantom Perfluorinated Plastic. <i>Lecture Notes in Electrical Engineering</i> , 2015, , 13-17.	0.4	0
211	Enhancement of integrated photonic biosensing by magnetic controlled nano-particles. , 2018, , .		0