

Duarte M F Prazeres

List of Publications by Year in descending order

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236
papers

6,308
citations

71102

41
h-index

102487

66
g-index

256
all docs

256
docs citations

256
times ranked

4876
citing authors

#	ARTICLE	IF	CITATIONS
1	Large-scale production of pharmaceutical-grade plasmid DNA for gene therapy: problems and bottlenecks. <i>Trends in Biotechnology</i> , 1999, 17, 169-174.	9.3	230
2	mRNA vaccines manufacturing: Challenges and bottlenecks. <i>Vaccine</i> , 2021, 39, 2190-2200.	3.8	214
3	Ethanol biosensors based on alcohol oxidase. <i>Biosensors and Bioelectronics</i> , 2005, 21, 235-247.	10.1	213
4	Downstream processing of plasmid DNA for gene therapy and DNA vaccine applications. <i>Trends in Biotechnology</i> , 2000, 18, 380-388.	9.3	191
5	Preparative purification of supercoiled plasmid DNA using anion-exchange chromatography. <i>Journal of Chromatography A</i> , 1998, 806, 31-45.	3.7	175
6	Chromatography of plasmid DNA. <i>Journal of Chromatography A</i> , 2005, 1069, 3-22.	3.7	165
7	Enzymatic membrane bioreactors and their applications. <i>Enzyme and Microbial Technology</i> , 1994, 16, 738-750.	3.2	149
8	Purification of plasmid DNA with aqueous two phase systems of PEG 600 and sodium citrate/ammonium sulfate. <i>Separation and Purification Technology</i> , 2009, 65, 22-30.	7.9	108
9	Affinity chromatography approaches to overcome the challenges of purifying plasmid DNA. <i>Trends in Biotechnology</i> , 2008, 26, 518-525.	9.3	105
10	Isolation of plasmid DNA from cell lysates by aqueous two-phase systems. <i>Biotechnology and Bioengineering</i> , 2002, 78, 376-384.	3.3	87
11	Assessment of purity and quantification of plasmid DNA in process solutions using high-performance hydrophobic interaction chromatography. <i>Journal of Chromatography A</i> , 2003, 998, 109-117.	3.7	87
12	Purification of plasmid DNA vectors by aqueous two-phase extraction and hydrophobic interaction chromatography. <i>Journal of Chromatography A</i> , 2005, 1082, 176-184.	3.7	83
13	Detection of DNA and proteins using amorphous silicon ion-sensitive thin-film field effect transistors. <i>Biosensors and Bioelectronics</i> , 2008, 24, 545-551.	10.1	83
14	Production, purification and analysis of an experimental DNA vaccine against rabies. <i>Journal of Gene Medicine</i> , 2001, 3, 577-584.	2.8	82
15	Trends in dengue diagnosis. <i>Reviews in Medical Virology</i> , 2005, 15, 287-302.	8.3	82
16	An on-chip thin film photodetector for the quantification of DNA probes and targets in microarrays. <i>Nucleic Acids Research</i> , 2004, 32, e70-e70.	14.5	81
17	The impact of polyadenylation signals on plasmid nuclease-resistance and transgene expression. <i>Journal of Gene Medicine</i> , 2007, 9, 392-402.	2.8	79
18	Stability of free and immobilised peroxidase in aqueous-organic solvents mixtures. <i>Journal of Molecular Catalysis B: Enzymatic</i> , 2001, 15, 147-153.	1.8	78

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19	Detection of ochratoxin A in wine and beer by chemiluminescence-based ELISA in microfluidics with integrated photodiodes. <i>Sensors and Actuators B: Chemical</i> , 2013, 176, 232-240.	7.8	74
20	Improvement of transfection efficiency by using supercoiled plasmid DNA purified with arginine affinity chromatography. <i>Journal of Gene Medicine</i> , 2009, 11, 79-88.	2.8	73
21	Zeolites as supports for enzymatic hydrolysis reactions. Comparative study of several zeolites. <i>Journal of Molecular Catalysis B: Enzymatic</i> , 1996, 1, 53-60.	1.8	71
22	Selective purification of supercoiled plasmid DNA from clarified cell lysates with a single histidine-agarose chromatography step. <i>Biotechnology and Applied Biochemistry</i> , 2006, 45, 131.	3.1	71
23	An ultrafiltration membrane bioreactor for the lipolysis of olive oil in reversed micellar media. <i>Biotechnology and Bioengineering</i> , 1993, 41, 761-770.	3.3	68
24	Development of Process Flow Sheets for the Purification of Supercoiled Plasmids for Gene Therapy Applications. <i>Biotechnology Progress</i> , 1999, 15, 725-731.	2.6	67
25	Microspot-based ELISA in microfluidics: chemiluminescence and colorimetry detection using integrated thin-film hydrogenated amorphous silicon photodiodes. <i>Lab on A Chip</i> , 2011, 11, 4063.	6.0	64
26	Zeolites as supports for an enzymatic alcoholysis reaction. <i>Journal of Molecular Catalysis B: Enzymatic</i> , 1998, 4, 303-311.	1.8	63
27	Capture and Detection of DNA Hybrids on Paper via the Anchoring of Antibodies with Fusions of Carbohydrate Binding Modules and ZZ-Domains. <i>Analytical Chemistry</i> , 2014, 86, 4340-4347.	6.5	61
28	Specific recognition of supercoiled plasmid DNA in arginine affinity chromatography. <i>Analytical Biochemistry</i> , 2008, 374, 432-434.	2.4	57
29	Design of flowsheets for the recovery and purification of plasmids for gene therapy and DNA vaccination. <i>Chemical Engineering and Processing: Process Intensification</i> , 2004, 43, 609-624.	3.6	56
30	Anion exchange purification of plasmid DNA using expanded bed adsorption. <i>Bioseparation</i> , 2000, 9, 1-6.	0.7	54
31	Continuous production of isovaleraldehyde through extractive bioconversion in a hollow-fiber membrane bioreactor. <i>Enzyme and Microbial Technology</i> , 1997, 20, 604-611.	3.2	51
32	Analysis of a Taylor-Poiseuille vortex flow reactor. <i>Chemical Engineering Science</i> , 1998, 53, 3635-3652.	3.8	51
33	Studies on the Batch Adsorption of Plasmid DNA onto Anion-Exchange Chromatographic Supports. <i>Biotechnology Progress</i> , 2000, 16, 416-424.	2.6	51
34	Separation of supercoiled and open circular plasmid DNA isoforms by chromatography with a histidine-agarose support. <i>Analytical Biochemistry</i> , 2005, 343, 183-185.	2.4	51
35	Thermal and operational stabilities of <i>Hansenula polymorpha</i> alcohol oxidase. <i>Journal of Molecular Catalysis B: Enzymatic</i> , 2004, 27, 37-45.	1.8	50
36	Biotransformations in two-liquid-phase systems. <i>Enzyme and Microbial Technology</i> , 1999, 25, 729-735.	3.2	46

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37	Studies on the retention of plasmid DNA and Escherichia coli nucleic acids by hydrophobic interaction chromatography. <i>Bioseparation</i> , 2001, 10, 211-220.	0.7	46
38	Effect of the immobilization support on the hydrolytic activity of a cutinase from <i>Fusarium solani</i> pisi. <i>Enzyme and Microbial Technology</i> , 1997, 20, 93-101.	3.2	43
39	Separation and Analysis of Plasmid Denatured Forms Using Hydrophobic Interaction Chromatography. <i>Analytical Biochemistry</i> , 1999, 275, 122-124.	2.4	43
40	Time-course determination of plasmid content in eukaryotic and prokaryotic cells using Real-Time PCR. <i>Molecular Biotechnology</i> , 2007, 37, 120-126.	2.4	42
41	Rational engineering of <i>Escherichia coli</i> strains for plasmid biopharmaceutical manufacturing. <i>Biotechnology Journal</i> , 2012, 7, 251-261.	3.5	42
42	A comparison of gel filtration chromatographic supports for plasmid purification. <i>Biotechnology Letters</i> , 1997, 11, 417-420.	0.5	41
43	Immobilization and hybridization by single sub-millisecond electric field pulses, for pixel-addressed DNA microarrays. <i>Biosensors and Bioelectronics</i> , 2004, 19, 1591-1597.	10.1	41
44	Dynamic binding capacity of plasmid DNA in histidine-agarose chromatography. <i>Biomedical Chromatography</i> , 2007, 21, 993-998.	1.7	41
45	Structural instability of plasmid biopharmaceuticals: challenges and implications. <i>Trends in Biotechnology</i> , 2009, 27, 503-511.	9.3	41
46	Biotransformation in organic media by enzymes and whole cells. <i>Journal of Biotechnology</i> , 1997, 59, 133-143.	3.8	40
47	Comparison of real-time polymerase chain reaction and hybridization assays for the detection of <i>Escherichia coli</i> genomic DNA in process samples and pharmaceutical-grade plasmid DNA products. <i>Analytical Biochemistry</i> , 2003, 322, 127-129.	2.4	38
48	Ionic Liquid-Polymer Nanoparticle Hybrid Systems as New Tools to Deliver Poorly Soluble Drugs. <i>Nanomaterials</i> , 2019, 9, 1148.	4.1	38
49	The role of polyadenylation signal secondary structures on the resistance of plasmid vectors to nucleases. <i>Journal of Gene Medicine</i> , 2004, 6, 565-573.	2.8	37
50	Electric-field assisted immobilization and hybridization of DNA oligomers on thin-film microchips. <i>Nanotechnology</i> , 2005, 16, 2061-2071.	2.6	36
51	Optimization of Isopropanol and Ammonium Sulfate Precipitation Steps in the Purification of Plasmid DNA. <i>Biotechnology Progress</i> , 2006, 22, 1179-1186.	2.6	35
52	De novo creation of MG1655-derived <i>E. coli</i> strains specifically designed for plasmid DNA production. <i>Applied Microbiology and Biotechnology</i> , 2013, 97, 611-620.	3.6	35
53	Title is missing!. <i>Biotechnology Letters</i> , 2000, 22, 1397-1400.	2.2	34
54	Preparation of plasmid DNA polyplexes from alkaline lysates by a two-step aqueous two-phase extraction process. <i>Journal of Chromatography A</i> , 2007, 1164, 105-112.	3.7	34

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55	Prediction of diffusion coefficients of plasmids. <i>Biotechnology and Bioengineering</i> , 2008, 99, 1040-1044.	3.3	34
56	Dipeptide synthesis and separation in a reversed micellar membrane reactor. <i>Enzyme and Microbial Technology</i> , 1994, 16, 1064-1073.	3.2	33
57	Enantioselective oxidation of (RS)-2-phenyl-1-propanol to (S)-2-phenylpropanoic acid with <i>Gluconobacter oxydans</i> : simplex optimization of the biotransformation. <i>Tetrahedron: Asymmetry</i> , 1999, 10, 3003-3009.	1.8	33
58	Plasmid purification by hydrophobic interaction chromatography using sodium citrate in the mobile phase. <i>Separation and Purification Technology</i> , 2009, 65, 95-104.	7.9	32
59	Plasmid Biopharmaceuticals. <i>Microbiology Spectrum</i> , 2014, 2, .	3.0	32
60	Stability and stabilisation of penicillin acylase. , 1999, 74, 1110-1116.		31
61	Analysis of a Taylorâ€œPoiseuille vortex flow reactor â€œ II: reactor modeling and performance assessment using glucose-fructose isomerization as test reaction. <i>Chemical Engineering Science</i> , 2000, 55, 3611-3626.	3.8	31
62	Detection of Chemiluminescence Using an Amorphous Silicon Photodiode. <i>IEEE Sensors Journal</i> , 2007, 7, 415-416.	4.7	31
63	Purification of plasmid DNA using tangential flow filtration and tandem anion-exchange membrane chromatography. <i>Bioprocess and Biosystems Engineering</i> , 2009, 32, 615-623.	3.4	31
64	Towards the miniaturization of GPCR-based live-cell screening assays. <i>Trends in Biotechnology</i> , 2012, 30, 566-574.	9.3	31
65	Histidine affinity chromatography of homoâ€œoligonucleotides. Role of multiple interactions on retention. <i>Biomedical Chromatography</i> , 2009, 23, 745-753.	1.7	30
66	Capture of human monoclonal antibodies from a clarified cell culture supernatant by phenyl boronate chromatography. <i>Journal of Molecular Recognition</i> , 2010, 23, 569-576.	2.1	30
67	Optimization of the primary recovery of human interferon β from <i>Escherichia coli</i> inclusion bodies. <i>Protein Expression and Purification</i> , 2006, 45, 226-234.	1.3	29
68	A Cellulose Paper-Based Fluorescent Lateral Flow Immunoassay for the Quantitative Detection of Cardiac Troponin I. <i>Biosensors</i> , 2021, 11, 49.	4.7	28
69	Circular dichroism investigation of the effect of plasmid DNA structure on retention in histidine chromatography. <i>Archives of Biochemistry and Biophysics</i> , 2007, 467, 154-162.	3.0	27
70	Characterization of the topography and wettability of English weed leaves and biomimetic replicas. <i>Journal of Bionic Engineering</i> , 2014, 11, 346-359.	5.0	26
71	Towards effective non-viral gene delivery vector. <i>Biotechnology and Genetic Engineering Reviews</i> , 2015, 31, 82-107.	6.2	26
72	High Frequency Plasmid Recombination Mediated by 28bp Direct Repeats. <i>Molecular Biotechnology</i> , 2008, 40, 252-60.	2.4	25

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73	Purification of plasmids for gene therapy and DNA vaccination. <i>Biotechnology Annual Review</i> , 2001, 7, 1-30.	2.1	24
74	Stability of a recombinant cutinase immobilized on zeolites. <i>Enzyme and Microbial Technology</i> , 2002, 31, 29-34.	3.2	24
75	Clearance of host cell impurities from plasmid-containing lysates by boronate adsorption. <i>Journal of Chromatography A</i> , 2010, 1217, 2262-2266.	3.7	24
76	DNA vaccines: a rational design against parasitic diseases. <i>Expert Review of Vaccines</i> , 2010, 9, 175-191.	4.4	24
77	Plasmid DNA production with <i>Escherichia coli</i> GALG20, a <i>pgi</i> -gene knockout strain: Fermentation strategies and impact on downstream processing. <i>Journal of Biotechnology</i> , 2014, 186, 119-127.	3.8	24
78	Modeling lipolysis in a reversed micellar system: Part I. Conventional batch reactor. <i>Biotechnology and Bioengineering</i> , 1993, 42, 759-764.	3.3	23
79	Hydrophobic interaction chromatography of homo-oligonucleotides on derivatized Sepharose CL-6B. <i>Journal of Chromatography A</i> , 2002, 944, 119-128.	3.7	23
80	Chemiluminescent Detection of Horseradish Peroxidase Using an Integrated Amorphous Silicon Thin-Film Photosensor. <i>IEEE Sensors Journal</i> , 2009, 9, 1282-1290.	4.7	23
81	Trans-sialidase from <i>Trypanosoma brucei</i> as a potential target for DNA vaccine development against African trypanosomiasis. <i>Parasitology Research</i> , 2009, 105, 1223-9.	1.6	23
82	Application of central composite design for DNA hybridization onto magnetic microparticles. <i>Analytical Biochemistry</i> , 2009, 391, 17-23.	2.4	23
83	Heterogeneous immunoassays in microfluidic format using fluorescence detection with integrated amorphous silicon photodiodes. <i>Biomicrofluidics</i> , 2011, 5, 14102.	2.4	23
84	Development of a recombinant fusion protein based on the dynein light chain LC8 for non-viral gene delivery. <i>Journal of Controlled Release</i> , 2012, 159, 222-231.	9.9	23
85	Extreme Enhancement of Single-Molecule Fluorescence from Porphyrins Induced by Gold Nanodimer Antennas. <i>Journal of Physical Chemistry Letters</i> , 2019, 10, 1542-1549.	4.6	23
86	Hydrolysis of lecithin by phospholipase A2 in mixed reversed micelles of lecithin and sodium dioctyl sulphosuccinate. <i>Journal of Chemical Technology and Biotechnology</i> , 1995, 63, 181-189.	3.2	22
87	Use of free and immobilized <i>Pseudomonas putida</i> cells for the reduction of a thiophene derivative in organic media. <i>Journal of Molecular Catalysis B: Enzymatic</i> , 2002, 19-20, 353-361.	1.8	22
88	Electric-field-pulse-assisted covalent immobilization of DNA in the nanosecond time scale. <i>Applied Physics Letters</i> , 2003, 83, 1465-1467.	3.3	22
89	Binding and elution strategy for improved performance of arginine affinity chromatography in supercoiled plasmid DNA purification. <i>Biomedical Chromatography</i> , 2009, 23, 160-165.	1.7	22
90	<i>Trypanosoma brucei</i> : Immunisation with plasmid DNA encoding invariant surface glycoprotein gene is able to induce partial protection in experimental African trypanosomiasis. <i>Experimental Parasitology</i> , 2011, 127, 18-24.	1.2	22

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91	Studies on the adsorption of cell impurities from plasmid-containing lysates to phenyl boronic acid chromatographic beads. <i>Journal of Chromatography A</i> , 2011, 1218, 8629-8637.	3.7	22
92	Phospholipase A2 -catalyzed hydrolysis of lecithin in a continuous reversed-micellar membrane bioreactor. <i>JAOCS, Journal of the American Oil Chemists' Society</i> , 1996, 73, 337-346.	1.9	21
93	Alternatives for the intermediate recovery of plasmid DNA: Performance, economic viability and environmental impact. <i>Biotechnology Journal</i> , 2009, 4, 265-278.	3.5	21
94	Recombination frequency in plasmid DNA containing direct repeats—predictive correlation with repeat and intervening sequence length. <i>Plasmid</i> , 2008, 60, 159-165.	1.4	21
95	Analysis of DNA repeats in bacterial plasmids reveals the potential for recurrent instability events. <i>Applied Microbiology and Biotechnology</i> , 2010, 87, 2157-2167.	3.6	21
96	Analysis and use of endogenous nuclease activities in <i>Escherichia coli</i> lysates during the primary isolation of plasmids for gene therapy. , 1999, 66, 189-194.		20
97	Characterisation of hydrogenated silicon-carbon alloy filters with different carbon composition for on-chip fluorescence detection of biomolecules. <i>Sensors and Actuators A: Physical</i> , 2010, 163, 96-100.	4.1	20
98	Hydrophobic interaction membrane chromatography for plasmid DNA purification: Design and optimization. <i>Journal of Separation Science</i> , 2010, 33, 1175-1184.	2.5	20
99	<i>In situ</i> NIR spectroscopy monitoring of plasmid production processes: effect of producing strain, medium composition and the cultivation strategy. <i>Journal of Chemical Technology and Biotechnology</i> , 2015, 90, 255-261.	3.2	20
100	Dynamics of droplets of biological fluids on smooth superhydrophobic surfaces under electrostatic actuation. <i>Journal of Bionic Engineering</i> , 2016, 13, 220-234.	5.0	20
101	Development of a nicking endonuclease-assisted method for the purification of minicircles. <i>Journal of Chromatography A</i> , 2016, 1443, 136-144.	3.7	20
102	A process for supercoiled plasmid DNA purification based on multimodal chromatography. <i>Separation and Purification Technology</i> , 2017, 182, 94-100.	7.9	20
103	Translational Features of Human Alpha 2b Interferon Production in <i>Escherichia coli</i> . <i>Applied and Environmental Microbiology</i> , 2004, 70, 5033-5036.	3.1	19
104	Single base mismatch detection by microsecond voltage pulses. <i>Biosensors and Bioelectronics</i> , 2005, 21, 888-893.	10.1	19
105	On the stability of plasmid DNA vectors during cell culture and purification. <i>Molecular Biotechnology</i> , 2007, 36, 151-158.	2.4	19
106	Protein-DNA interactions define the mechanistic aspects of circle formation and insertion reactions in IS2 transposition. <i>Mobile DNA</i> , 2012, 3, 1.	3.6	19
107	Stability and Ligand Promiscuity of Type A Carbohydrate-binding Modules Are Illustrated by the Structure of <i>Spirochaeta thermophila</i> StCBM64C. <i>Journal of Biological Chemistry</i> , 2017, 292, 4847-4860.	3.4	19
108	Continuous production and simultaneous precipitation of a dipeptide in a reversed micellar membrane reactor. <i>Enzyme and Microbial Technology</i> , 1999, 24, 507-513.	3.2	18

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109	Metabolic viability of <i>E. coli</i> trapped by dielectrophoresis in microfluidics. <i>Electrophoresis</i> , 2013, 34, 575-582.	2.4	18
110	Kinetics and modelling of an alcoholysis reaction catalyzed by cutinase immobilized on NaY zeolite. <i>Journal of Molecular Catalysis B: Enzymatic</i> , 2001, 11, 713-718.	1.8	17
111	Fluorescence detection of DNA using an amorphous silicon p-i-n photodiode. <i>Journal of Applied Physics</i> , 2008, 104, 054913.	2.5	17
112	Recovery and partial purification of penicillin G acylase from <i>E. coli</i> homogenate and <i>B. megaterium</i> culture medium using an expanded bed adsorption column. <i>Biochemical Engineering Journal</i> , 2009, 44, 111-118.	3.6	17
113	Thin film micro arrays with immobilized DNA for hybridization analysis. <i>Materials Research Society Symposia Proceedings</i> , 2002, 723, 231.	0.1	16
114	pH sensitive photoconductor based on poly(para-phenylene-vinylene). <i>Sensors and Actuators B: Chemical</i> , 2007, 123, 153-157.	7.8	16
115	Impact of Plasmid Quality on Lipoplex-Mediated Transfection. <i>Journal of Pharmaceutical Sciences</i> , 2013, 102, 3932-3941.	3.3	16
116	Colorimetric detection of D-dimer in a paper-based immunodetection device. <i>Analytical Biochemistry</i> , 2017, 538, 5-12.	2.4	16
117	Engineering of Human Mesenchymal Stem/Stromal Cells with Vascular Endothelial Growth Factor- β Encoding Minicircles for Angiogenic <i>Ex Vivo</i> Gene Therapy. <i>Human Gene Therapy</i> , 2019, 30, 316-329.	2.7	16
118	Fluorescent dye nano-assemblies by thiol attachment directed to the tips of gold nanorods for effective emission enhancement. <i>Nanoscale</i> , 2020, 12, 6334-6345.	5.6	16
119	Quantitation of plasmid DNA in aqueous two-phase systems by fluorescence analysis. <i>Biotechnology Letters</i> , 2000, 22, 1101-1104.	2.2	15
120	BEHAVIOUR OF HORSERADISH PEROXIDASE IN AOT REVERSED MICELLES. <i>Biocatalysis and Biotransformation</i> , 2001, 19, 213-233.	2.0	15
121	Hydrophobic interaction chromatography of homo-oligonucleotides on derivatized Sepharose CL-6B. <i>Journal of Chromatography A</i> , 2003, 1006, 137-148.	3.7	15
122	Enhanced Fluorescence of a Dye on DNA-Assembled Gold Nanodimers Discriminated by Lifetime Correlation Spectroscopy. <i>Journal of Physical Chemistry C</i> , 2018, 122, 10971-10980.	3.1	15
123	Manufacturing of bacteriophages for therapeutic applications. <i>Biotechnology Advances</i> , 2021, 49, 107758.	11.7	15
124	Modeling lipolysis in a reversed micellar system: Part II?membrane reactor. <i>Biotechnology and Bioengineering</i> , 1993, 42, 765-771.	3.3	14
125	A theoretical analogy between multistage ultrafiltration and size-exclusion chromatography. <i>Chemical Engineering Science</i> , 1997, 52, 953-960.	3.8	14
126	Conformational changes induced by immobilization of a recombinant cutinase on zeolites. <i>Catalysis Letters</i> , 2001, 73, 63-66.	2.6	14

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127	Detection of molecular tags with an integrated amorphous silicon photodetector for biological applications. <i>Journal of Non-Crystalline Solids</i> , 2008, 354, 2594-2597.	3.1	14
128	Integration of thin film amorphous silicon photodetector with lab-on-chip for monitoring protein fluorescence in solution and in live microbial cells. <i>Sensors and Actuators B: Chemical</i> , 2011, 156, 662-667.	7.8	14
129	On the dual effect of glucose during production of pBAD/AraC-based minicircles. <i>Vaccine</i> , 2014, 32, 2843-2846.	3.8	14
130	A Multiphasic Hollow Fiber Reactor for the Whole-Cell Bioconversion of 2-Methyl-1,3-propanediol to (R)- β -Hydroxyisobutyric Acid. <i>Biotechnology Progress</i> , 2001, 17, 468-473.	2.6	13
131	Colorimetric detection of molecular recognition reactions with an enzyme biolabel using a thin-film amorphous silicon photodiode on a glass substrate. <i>Sensors and Actuators B: Chemical</i> , 2008, 135, 102-107.	7.8	13
132	Effect of cationic liposomes/DNA charge ratio on gene expression and antibody response of a candidate DNA vaccine against Maedi Visna virus. <i>International Journal of Pharmaceutics</i> , 2009, 377, 92-98.	5.2	13
133	Deletion formation mutations in plasmid expression vectors are disfavored by runaway amplification conditions and differentially selected under kanamycin stress. <i>Journal of Biotechnology</i> , 2009, 143, 231-238.	3.8	13
134	Monitoring Proteolytic Activity in Real Time: A New World of Opportunities for Biosensors. <i>Trends in Biochemical Sciences</i> , 2020, 45, 604-618.	7.5	13
135	Application of factorial design to the study of an alcoholysis transformation promoted by cutinase immobilized on NaY zeolite and Accurel PA6. <i>Journal of Molecular Catalysis B: Enzymatic</i> , 2004, 27, 19-27.	1.8	12
136	Chemiluminescent bead-based hybridization assay for the detection of genomic DNA from <i>E. coli</i> in purified plasmid samples. <i>Analytical and Bioanalytical Chemistry</i> , 2008, 391, 2179-2187.	3.7	12
137	Stabilization of naked and condensed plasmid DNA against degradation induced by ultrasounds and high shear vortices. <i>Biotechnology and Applied Biochemistry</i> , 2009, 53, 237-246.	3.1	12
138	Improvement of DNA minicircle production by optimization of the secondary structure of the 5'-UTR of ParA resolvase. <i>Applied Microbiology and Biotechnology</i> , 2016, 100, 6725-6737.	3.6	12
139	Label-free electronic detection of biomolecules using a-Si:H field-effect devices. <i>Journal of Non-Crystalline Solids</i> , 2006, 352, 2007-2010.	3.1	11
140	Thin-film silicon MEMS DNA sensors. <i>Journal of Non-Crystalline Solids</i> , 2006, 352, 1999-2003.	3.1	11
141	Engineering of <i>Escherichia coli</i> strains for plasmid biopharmaceutical production: Scale-up challenges. <i>Vaccine</i> , 2014, 32, 2847-2850.	3.8	11
142	A biomolecular recognition approach for the functionalization of cellulose with gold nanoparticles. <i>Journal of Molecular Recognition</i> , 2017, 30, e2634.	2.1	11
143	Multimodal chromatography of supercoiled minicircles: A closer look into DNA-ligand interactions. <i>Separation and Purification Technology</i> , 2019, 212, 161-170.	7.9	11
144	Membrane-Assisted Extractive Bioconversions. <i>Advances in Biochemical Engineering/Biotechnology</i> , 2003, 80, 115-148.	1.1	11

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145	Protein assay in reversed micelle solutions. <i>Biotechnology Letters</i> , 1993, 7, 293-294.	0.5	10
146	Adsorption studies for the separation of l-tryptophan from l-serine and indole in a bioconversion medium. <i>Bioprocess and Biosystems Engineering</i> , 1995, 12, 95-102.	0.5	10
147	Concentration of BSA using a superabsorbent polymer: process evaluation. <i>Journal of Biotechnology</i> , 1995, 39, 157-164.	3.8	10
148	Plasmid Manufacturing – An Overview. , 0, , 193-236.		10
149	Microbial Stereoselective Oxidation of 2-methyl-1,3-propanediol to (R)- β -hydroxyisobutyric Acid in Aqueous/organic Biphasic Systems. <i>Biocatalysis and Biotransformation</i> , 2002, 20, 201-207.	2.0	10
150	Development of a candidate DNA vaccine against Maedi-Visna virus. <i>Veterinary Immunology and Immunopathology</i> , 2007, 119, 222-232.	1.2	10
151	Detection of fluorescently labeled biomolecules immobilized on a detachable substrate using an integrated amorphous silicon photodetector. <i>Applied Physics Letters</i> , 2009, 94, 164106.	3.3	10
152	Electrical detection of DNA immobilization and hybridization by streaming current measurements in microchannels. <i>Applied Physics Letters</i> , 2011, 99, 183702.	3.3	10
153	Monitoring intracellular calcium in response to GPCR activation using thin-film silicon photodiodes with integrated fluorescence filters. <i>Biosensors and Bioelectronics</i> , 2014, 52, 232-238.	10.1	10
154	Separation of plasmid DNA topoisomers by multimodal chromatography. <i>Analytical Biochemistry</i> , 2016, 503, 68-70.	2.4	10
155	G protein-Coupled Receptors: An Overview of Signaling Mechanisms and Screening Assays. <i>Methods in Molecular Biology</i> , 2015, 1272, 3-19.	0.9	10
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