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List of Publications by Year in descending order

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89
papers

1,170
citations

394421

19
h-index

501196

28
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90
all docs

90
docs citations

90
times ranked

765
citing authors

#	ARTICLE	IF	CITATIONS
1	Nanoparticle mediated delivery of pure P53 supercoiled plasmid DNA for gene therapy. Journal of Controlled Release, 2011, 156, 212-222.	9.9	63
2	Cervical cancer and HPV infection: ongoing therapeutic research to counteract the action of E6 and E7 oncoproteins. Drug Discovery Today, 2019, 24, 2044-2057.	6.4	57
3	Advances in chromatographic supports for pharmaceutical-grade plasmid DNA purification. Journal of Separation Science, 2012, 35, 3046-3058.	2.5	53
4	Methods to improve the immunogenicity of plasmid DNA vaccines. Drug Discovery Today, 2021, 26, 2575-2592.	6.4	42
5	Differential interactions of plasmid DNA, RNA and genomic DNA with amino acid-based affinity matrices. Journal of Separation Science, 2010, 33, 2610-2618.	2.5	40
6	Purification of human papillomavirus 16 E6/E7 plasmid deoxyribonucleic acid-based vaccine using an arginine modified monolithic support. Journal of Chromatography A, 2013, 1320, 72-79.	3.7	35
7	Successful application of monolithic innovative technology using a carbonyldiimidazole disk to purify supercoiled plasmid DNA suitable for pharmaceutical applications. Journal of Chromatography A, 2011, 1218, 8333-8343.	3.7	33
8	Purification of pre-miR-29 by arginine-affinity chromatography. Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences, 2014, 951-952, 16-23.	2.3	32
9	Histidine affinity chromatography of homo-oligonucleotides. Role of multiple interactions on retention. Biomedical Chromatography, 2009, 23, 745-753.	1.7	30
10	Performance of a non-grafted monolithic support for purification of supercoiled plasmid DNA. Journal of Chromatography A, 2011, 1218, 1701-1706.	3.7	29
11	Biorecognition of supercoiled plasmid DNA isoform in lysine-affinity chromatography. Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences, 2009, 877, 3257-3260.	2.3	28
12	Histamine monolith versatility to purify supercoiled plasmid deoxyribonucleic acid from Escherichia coli lysate. Journal of Chromatography A, 2014, 1355, 125-133.	3.7	27
13	Cancer gene therapy mediated by RALA/plasmid DNA vectors: Nitrogen to phosphate groups ratio (N/P) as a tool for tunable transfection efficiency and apoptosis. Colloids and Surfaces B: Biointerfaces, 2020, 185, 110610.	5.0	26
14	Impact of lysine-affinity chromatography on supercoiled plasmid DNA purification. Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences, 2011, 879, 3507-3515.	2.3	25
15	Finding the ideal polyethylenimine-plasmid DNA system for co-delivery of payloads in cancer therapy. Colloids and Surfaces B: Biointerfaces, 2018, 170, 627-636.	5.0	25
16	Optimization of peptide-plasmid DNA vectors formulation for gene delivery in cancer therapy exploring design of experiments. Colloids and Surfaces B: Biointerfaces, 2019, 183, 110417.	5.0	25
17	Rapid quantification of supercoiled plasmid deoxyribonucleic acid using a monolithic ion exchanger. Journal of Chromatography A, 2013, 1291, 114-121.	3.7	23
18	Minicircle DNA: The Future for DNA-Based Vectors?. Trends in Biotechnology, 2020, 38, 1047-1051.	9.3	22

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19	Optimization of supercoiled HPV-16 E6/E7 plasmid DNA purification with arginine monolith using design of experiments. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2015, 978-979, 145-150.	2.3	21
20	Selectivity of arginine chromatography in promoting different interactions using synthetic oligonucleotides as model. <i>Journal of Separation Science</i> , 2009, 32, 1665-1672.	2.5	20
21	Histone Deacetylase Inhibitors as Therapeutic Interventions on Cervical Cancer Induced by Human Papillomavirus. <i>Frontiers in Cell and Developmental Biology</i> , 2020, 8, 592868.	3.7	20
22	Methotrexate-plasmid DNA polyplexes for cancer therapy: Characterization, cancer cell targeting ability and tuned in vitro transfection. <i>Journal of Molecular Liquids</i> , 2019, 292, 111391.	4.9	19
23	In Silico Approaches: A Way to Unveil Novel Therapeutic Drugs for Cervical Cancer Management. <i>Pharmaceuticals</i> , 2021, 14, 741.	3.8	19
24	Flavonoids-Based Delivery Systems towards Cancer Therapies. <i>Bioengineering</i> , 2022, 9, 197.	3.5	19
25	Follicular Fluid: A Powerful Tool for the Understanding and Diagnosis of Polycystic Ovary Syndrome. <i>Biomedicines</i> , 2022, 10, 1254.	3.2	18
26	Biosynthesis and isolation of gellan polysaccharide to formulate microspheres for protein capture. <i>Carbohydrate Polymers</i> , 2019, 220, 236-246.	10.2	17
27	Purification of pre-miR-29 by a new O-phospho-l-tyrosine affinity chromatographic strategy optimized using design of experiments. <i>Journal of Chromatography A</i> , 2014, 1343, 119-127.	3.7	16
28	Effect of Plasmid DNA Size on Chitosan or Polyethyleneimine Polyplexes Formulation. <i>Polymers</i> , 2021, 13, 793.	4.5	16
29	Effect of chromatographic conditions and plasmid DNA size on the dynamic binding capacity of a monolithic support. <i>Journal of Separation Science</i> , 2014, 37, 2284-2292.	2.5	14
30	The use of size-exclusion chromatography in the isolation of supercoiled minicircle DNA from <i>Escherichia coli</i> lysate. <i>Journal of Chromatography A</i> , 2020, 1609, 460444.	3.7	14
31	Minicircle DNA purification using a CIMÂ® DEAEâ€¹ monolithic support. <i>Journal of Separation Science</i> , 2016, 39, 3544-3549.	2.5	13
32	Minicircle DNA purification: Performance of chromatographic monoliths bearing lysine and cadaverine ligands. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2019, 1118-1119, 7-16.	2.3	13
33	Design of Experiments to Achieve an Efficient Chitosan-Based DNA Vaccine Delivery System. <i>Pharmaceutics</i> , 2021, 13, 1369.	4.5	13
34	Separation of different forms of proteose peptone 3 by hydrophobic interaction chromatography with a dual salt system. <i>Biomedical Chromatography</i> , 2008, 22, 447-449.	1.7	12
35	New approach for purification of pre-miR-29 using lysine-affinity chromatography. <i>Journal of Chromatography A</i> , 2014, 1331, 129-132.	3.7	12
36	Boxâ€œBehnken Design a Key Tool to Achieve Optimized PCL/Gelatin Electrospun Mesh. <i>Macromolecular Materials and Engineering</i> , 2021, 306, 2000678.	3.6	12

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37	Binding mechanisms for histamine and agmatine ligands in plasmid deoxyribonucleic acid purifications. <i>Journal of Chromatography A</i> , 2014, 1366, 110-119.	3.7	11
38	Purification of influenza deoxyribonucleic acid-based vaccine using agmatine monolith. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2016, 1012-1013, 153-161.	2.3	11
39	Design of experiments to select triphenylphosphonium-polyplexes with suitable physicochemical properties for mitochondrial gene therapy. <i>Journal of Molecular Liquids</i> , 2020, 302, 112488.	4.9	11
40	The Performance of Minicircle DNA Versus Parental Plasmid in p53 Gene Delivery Into HPV-18-Infected Cervical Cancer Cells. <i>Nucleic Acid Therapeutics</i> , 2021, 31, 82-91.	3.6	11
41	Development of Peptide-Based Nanoparticles for Mitochondrial Plasmid DNA Delivery. <i>Polymers</i> , 2021, 13, 1836.	4.5	11
42	Application of ethylenediamine monolith to purify a hemagglutinin influenza deoxyribonucleic acid-based vaccine. <i>Separation and Purification Technology</i> , 2015, 154, 320-327.	7.9	10
43	Composite Central Face Design—An Approach to Achieve Efficient Alginate Microcarriers. <i>Polymers</i> , 2019, 11, 1949.	4.5	10
44	DoE to improve supercoiled p53-pDNA purification by O-phospho-l-tyrosine chromatography. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2019, 1105, 184-192.	2.3	10
45	Metallic Structures: Effective Agents to Fight Pathogenic Microorganisms. <i>International Journal of Molecular Sciences</i> , 2022, 23, 1165.	4.1	10
46	Pharmaceutical-grade pre-miR-29 purification using an agmatine monolithic support. <i>Journal of Chromatography A</i> , 2014, 1368, 173-182.	3.7	9
47	Effect of Chromatographic Conditions on Supercoiled Plasmid DNA Stability and Bioactivity. <i>Applied Sciences (Switzerland)</i> , 2019, 9, 5170.	2.5	9
48	Polymer-peptide ternary systems as a tool to improve the properties of plasmid DNA vectors in gene delivery. <i>Journal of Molecular Liquids</i> , 2020, 309, 113157.	4.9	9
49	Synthesis and Characterization of Mannosylated Formulations to Deliver a Minicircle DNA Vaccine. <i>Pharmaceutics</i> , 2021, 13, 673.	4.5	9
50	Modulation of Chitosan-TPP Nanoparticle Properties for Plasmid DNA Vaccines Delivery. <i>Polymers</i> , 2022, 14, 1443.	4.5	9
51	Affinity analysis between immobilized l-arginine and plasmid isoforms provided by surface plasmon resonance. <i>Analytical Methods</i> , 2013, 5, 1682.	2.7	8
52	Selective purification of supercoiled p53-encoding pDNA with l-methionine-agarose matrix. <i>Analytical Biochemistry</i> , 2014, 459, 61-69.	2.4	8
53	The biological performance of purified supercoiled p53 plasmid DNA in different cancer cell lines. <i>Process Biochemistry</i> , 2018, 75, 240-249.	3.7	8
54	Chromatographic HPV16 E6/E7 plasmid vaccine purification employing l-histidine and l-benzyl-L-histidine affinity ligands. <i>Electrophoresis</i> , 2017, 38, 2975-2980.	2.4	7

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55	Purification of supercoiled p53-encoding plasmid using an arginine-modified macroporous support. <i>Journal of Chromatography A</i> , 2020, 1618, 460890.	3.7	7
56	Taxifolin and Lucidin as Potential E6 Protein Inhibitors: p53 Function Re-Establishment and Apoptosis Induction in Cervical Cancer Cells. <i>Cancers</i> , 2022, 14, 2834.	3.7	7
57	Optimization of a chromatographic stationary phase based on gellan gum using central composite design. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2014, 957, 46-52.	2.3	6
58	Supercoiled plasmid <scp>DNA</scp> purification by integrating membrane technology with a monolithic chromatography. <i>Journal of Separation Science</i> , 2014, 37, 1229-1236.	2.5	6
59	Screening of <scp>l</scp>-histidine-based ligands to modify monolithic supports and selectively purify the supercoiled plasmid DNA isoform. <i>Journal of Molecular Recognition</i> , 2015, 28, 349-358.	2.1	6
60	Arginine homopeptides for plasmid DNA purification using monolithic supports. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2018, 1087-1088, 149-157.	2.3	6
61	Peptides vs. Polymers: Searching for the Most Efficient Delivery System for Mitochondrial Gene Therapy. <i>Pharmaceutics</i> , 2022, 14, 757.	4.5	6
62	Advances in Membrane-Bound Catechol-O-Methyltransferase Stability Achieved Using a New Ionic Liquid-Based Storage Formulation. <i>International Journal of Molecular Sciences</i> , 2022, 23, 7264.	4.1	6
63	Study of the specific interaction between l-methionine chromatography support and nucleotides. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2012, 909, 1-5.	2.3	5
64	Quantitative analysis of histamine- and agmatine-DNA interactions using surface plasmon resonance. <i>International Journal of Biological Macromolecules</i> , 2014, 70, 131-137.	7.5	5
65	HPV-16 targeted DNA vaccine expression: The role of purification. <i>Biotechnology Progress</i> , 2018, 34, 546-551.	2.6	5
66	Enhancement of a biotechnological platform for the purification and delivery of a human papillomavirus supercoiled plasmid DNA vaccine. <i>New Biotechnology</i> , 2020, 59, 1-9.	4.4	5
67	Development of Tailor-Made Dendrimer Ternary Complexes for Drug/Gene Co-Delivery in Cancer. <i>Pharmaceutics</i> , 2021, 13, 1256.	4.5	5
68	Molecular recognition of oligonucleotides and plasmid DNA by<scp>l</scp>-methionine. <i>Journal of Molecular Recognition</i> , 2014, 27, 588-596.	2.1	3
69	Quality assessment of supercoiled minicircle DNA by cadaverine-modified analytical chromatographic monolith. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2020, 180, 113037.	2.8	3
70	A new insight in gellan microspheres application to capture a plasmid DNA vaccine from an <i>Escherichia coli</i> lysate. <i>Separation and Purification Technology</i> , 2021, 274, 119013.	7.9	3
71	Applications of gellan natural polymer microspheres in recombinant catechol-O-methyltransferase direct capture from a <i>Komagataella pastoris</i> lysate. <i>International Journal of Biological Macromolecules</i> , 2021, 172, 186-196.	7.5	2
72	Minicircle DNA Vaccine Purification and E7 Antigen Expression Assessment. <i>Methods in Molecular Biology</i> , 2021, 2197, 207-222.	0.9	2

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73	Sub-100 nm Chitosan-Triphosphate-DNA Nanoparticles for Delivery of DNA Vaccines. Proceedings (mdpi), 2020, 78, .	0.2	2
74	Hands-On Laboratory Class for Biopharmaceutical pDNA Quality Control. Journal of Chemical Education, 0, , .	2.3	2
75	Maximization of the Minicircle DNA Vaccine Production Expressing SARS-CoV-2 RBD. Biomedicines, 2022, 10, 990.	3.2	2
76	Tyrosinase Immobilization in Nickel-Cross-Linked Gellan Microspheres and Conversion of L-DOPA to Dopachrome. Journal of Chemical Education, 0, , .	2.3	1
77	Conception of Plasmid DNA and Polyethylenimine Delivery Systems with Potential Application in Field. Methods in Molecular Biology, 2021, 2197, 271-284.	0.9	1
78	Plasmid DNA purification by integrating membrane technology with arginine affinity chromatography. New Biotechnology, 2014, 31, S120.	4.4	0
79	Screening of L-histidine based ligands to purify the supercoiled plasmid DNA isoform. , 2015, , .		0
80	Editorial: Epigenetic Therapy With Histone Deacetylase Inhibitors: Implications for Cancer Treatment. Frontiers in Cell and Developmental Biology, 2021, 9, 662761.	3.7	0
81	Editorial: Nanotechnology for Precision Cancer Therapy: Advances in Gene Therapy, Immunotherapy, and 3D Bioprinting. Frontiers in Nanotechnology, 2021, 3, .	4.8	0
82	p53-Encoding pDNA Purification by Affinity Chromatography for Cancer Therapy. Methods in Molecular Biology, 2015, 1317, 109-124.	0.9	0
83	Future perspectives of biological macromolecules in biomedicine. , 2022, , 607-632.		0
84	Vaccines against Infectious Diseases and Cancer. Vaccines, 2022, 10, 648.	4.4	0
85	New Combined Approach to Simplify the Minicircular DNA Lysate and Directly Apply in Ion Exchange Membrane Chromatography. , 2022, 8, .		0
86	Dopamine-Coated Silver Nanoparticles: Therapeutic Agents to Fight Bacteria and Fungi. , 2022, 8, .		0
87	3D Printing for Affinity Chromatographic Support Production. , 0, , .		0
88	Polymeric Blends with Copper: A Powerful Weapon against Pathogenic Spread. , 0, , .		0
89	Chitosanâ€“Silver Nanoconjugates to Achieve Enhanced Antimicrobial Effect and Fight Cervical Cancer. , 0, , .		0