

JosÃ© Guillermo GonzÃ¡lez-Valdez

List of Publications by Year in descending order

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56
papers

1,131
citations

471061

17
h-index

433756

31
g-index

56
all docs

56
docs citations

56
times ranked

1270
citing authors

#	ARTICLE	IF	CITATIONS
1	The role of lipids in exosome biology and intercellular communication: Function, analytics and applications. <i>Traffic</i> , 2021, 22, 204-220.	1.3	119
2	Protein A chromatography: Challenges and progress in the purification of monoclonal antibodies. <i>Journal of Separation Science</i> , 2019, 42, 1816-1827.	1.3	92
3	Recent advances and challenges in the recovery and purification of cellular exosomes. <i>Electrophoresis</i> , 2019, 40, 3036-3049.	1.3	89
4	Electrokinetically Driven Exosome Separation and Concentration Using Dielectrophoretic-Enhanced PDMS-Based Microfluidics. <i>Analytical Chemistry</i> , 2019, 91, 14975-14982.	3.2	87
5	New Trends in Biopolymer-Based Membranes for Pervaporation. <i>Molecules</i> , 2019, 24, 3584.	1.7	62
6	State-of-the-art exosome loading and functionalization techniques for enhanced therapeutics: a review. <i>Critical Reviews in Biotechnology</i> , 2020, 40, 804-820.	5.1	61
7	Aqueous Two-Phase Systems at Large Scale: Challenges and Opportunities. <i>Biotechnology Journal</i> , 2019, 14, e1800117.	1.8	57
8	Advances and trends in the design, analysis, and characterization of polymer-protein conjugates for PEGylated bioprocesses. <i>Analytical and Bioanalytical Chemistry</i> , 2012, 403, 2225-2235.	1.9	38
9	Potential application of aqueous two-phase systems for the fractionation of RNase A and Lactalbumin from their PEGylated conjugates. <i>Journal of Chemical Technology and Biotechnology</i> , 2011, 86, 26-33.	1.6	35
10	Enhanced exosome-mediated delivery of black bean phytochemicals (<i>Phaseolus vulgaris</i> L.) for cancer treatment applications. <i>Biomedicine and Pharmacotherapy</i> , 2020, 131, 110771.	2.5	34
11	High-performance pervaporation chitosan-based membranes: new insights and perspectives. <i>Reviews in Chemical Engineering</i> , 2021, 37, 959-974.	2.3	30
12	Clinical Implications of Exosomal PD-L1 in Cancer Immunotherapy. <i>Journal of Immunology Research</i> , 2021, 2021, 1-18.	0.9	29
13	Current advances in the non-chromatographic fractionation and characterization of PEGylated proteins. <i>Journal of Chemical Technology and Biotechnology</i> , 2011, 86, 18-25.	1.6	27
14	Detailed characterization of the solution kinetics and thermodynamics of biotin, biocytin and HABA binding to avidin and streptavidin. <i>PLoS ONE</i> , 2019, 14, e0204194.	1.1	27
15	Insights on the downstream purification of fucoxanthin, a microalgal carotenoid, from an aqueous two-phase system stream exploiting ultrafiltration. <i>Journal of Applied Phycology</i> , 2015, 27, 1517-1523.	1.5	24
16	Novel aspects and future trends in the use of aqueous two-phase systems as a bioengineering tool. <i>Journal of Chemical Technology and Biotechnology</i> , 2018, 93, 1836-1844.	1.6	24
17	Modelling of electrokinetic phenomena for capture of PEGylated ribonuclease A in a microdevice with insulating structures. <i>Biomicrofluidics</i> , 2016, 10, 033106.	1.2	21
18	Impact of aqueous two-phase system design parameters upon the <i>in situ</i> refolding and recovery of invertase. <i>Journal of Chemical Technology and Biotechnology</i> , 2015, 90, 1765-1772.	1.6	18

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19	Dielectrophoretic behavior of PEGylated RNase A inside a microchannel with diamond-shaped insulating posts. <i>Electrophoresis</i> , 2016, 37, 519-528.	1.3	17
20	Monolithic chromatography: insights and practical perspectives. <i>Journal of Chemical Technology and Biotechnology</i> , 2017, 92, 9-13.	1.6	17
21	Serological Test to Determine Exposure to SARS-CoV-2: ELISA Based on the Receptor-Binding Domain of the Spike Protein (S-RBDN318-V510) Expressed in <i>Escherichia coli</i> . <i>Diagnostics</i> , 2021, 11, 271.	1.3	17
22	Effects of chemical modifications in the partition behavior of proteins in aqueous two-phase systems: A case study with RNase A. <i>Biotechnology Progress</i> , 2013, 29, 378-385.	1.3	13
23	PEGylated protein separation using different hydrophobic interaction supports: Conventional and monolithic supports. <i>Biotechnology Progress</i> , 2016, 32, 702-707.	1.3	13
24	Toward improving selectivity in affinity chromatography with PEGylated affinity ligands: The performance of PEGylated protein A. <i>Biotechnology Progress</i> , 2014, 30, 1364-1379.	1.3	11
25	Smart Polymers: Physicochemical Characteristics and Applications in Bio-Separation Strategies. <i>Separation and Purification Reviews</i> , 2018, 47, 199-213.	2.8	11
26	Dielectrophoretic manipulation of exosomes in a multi-section microfluidic device. <i>Materials Today: Proceedings</i> , 2019, 13, 332-340.	0.9	11
27	Intensified fractionation of brewery yeast waste for the recovery of invertase using aqueous two-phase systems. <i>Biotechnology and Applied Biochemistry</i> , 2016, 63, 886-894.	1.4	10
28	Synthesis of adsorbents with dendronic structures for protein hydrophobic interaction chromatography. <i>Journal of Chromatography A</i> , 2016, 1443, 191-200.	1.8	10
29	Improved extraction of the natural anticancerigen pristimerin from <i>Mortonia greggii</i> root bark using green solvents and aqueous two-phase systems. <i>Separation and Purification Technology</i> , 2019, 211, 667-672.	3.9	10
30	Quantification of RNase A and Its PEGylated Conjugates on Polymer-Salt Rich Environments Using UV Spectrophotometry. <i>Analytical Letters</i> , 2011, 44, 800-814.	1.0	9
31	Recovery of PEGylated and native lysozyme using an <i>in situ</i> aqueous two-phase system directly from the PEGylation reaction. <i>Journal of Chemical Technology and Biotechnology</i> , 2017, 92, 2519-2526.	1.6	9
32	Exosomes as nanocarriers for the delivery of bioactive compounds from black bean extract with antiproliferative activity in cancer cell lines. <i>Materials Today: Proceedings</i> , 2019, 13, 362-369.	0.9	9
33	Isorhamnetin encapsulation into biogenic silica from <i>Cyclotella</i> sp. using a microfluidic device for drug delivery applications. <i>Biocatalysis and Agricultural Biotechnology</i> , 2019, 19, 101175.	1.5	9
34	Thermo-separating polymer-based aqueous two-phase systems for the recovery of PEGylated lysozyme species. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2019, 1105, 120-128.	1.2	9
35	Exosome-Mediated Insulin Delivery for the Potential Treatment of Diabetes Mellitus. <i>Pharmaceutics</i> , 2021, 13, 1870.	2.0	9
36	Refolding of laccase from <i>Trametes versicolor</i> using aqueous two phase systems: Effect of different additives. <i>Journal of Chromatography A</i> , 2017, 1507, 25-31.	1.8	8

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37	<scp>DNA</scp> based vaccines offer improved vaccination supply for the developing world. Journal of Chemical Technology and Biotechnology, 2013, 88, 979-982.	1.6	7
38	Practical experiences from the benchâ€scale implementation of a bioprocess for fucoxanthin production. Journal of Chemical Technology and Biotechnology, 2018, 93, 2033-2039.	1.6	7
39	Covalent immobilization of antibodies for the preparation of immunoaffinity chromatographic supports. Separation Science and Technology, 2016, 51, 1736-1743.	1.3	6
40	Insights into the application of polyhydroxyalkanoates derivatives from the combination of experimental and simulation approaches. Journal of Molecular Structure, 2019, 1175, 536-541.	1.8	6
41	Optimized and Scalable Green Extraction of Pristimerin, an Anticancerigen from <i>Mortonia greggii</i>, by Ethanolâ€Phosphate Aqueous Two-Phase Systems. Industrial & Engineering Chemistry Research, 2021, 60, 5403-5410.	1.8	5
42	Reactive aqueous two-phase systems for the production and purification of PEGylated proteins. Electronic Journal of Biotechnology, 2021, 54, 60-68.	1.2	4
43	Biological nanoparticles: Relevance as novel target drug delivery systems and leading chromatographic isolation approaches. Electrophoresis, 2022, 43, 109-118.	1.3	4
44	Potential Applications and Functional Roles of Exosomes in Cardiometabolic Disease. Pharmaceutics, 2021, 13, 2056.	2.0	4
45	Synthesis, characterization, and in vitro evaluation of gamma radiation-induced PEGylated isoniazid. Electronic Journal of Biotechnology, 2019, 41, 81-87.	1.2	2
46	Development and Characterization of PEGylated Chromatographic Monoliths as a Novel Platform for the Separation of PEGylated RNase A Isomers. Advances in Polymer Technology, 2019, 2019, 1-10.	0.8	2
47	Perspectives, Tendencies, and Guidelines in Affinity-Based Strategies for the Recovery and Purification of PEGylated Proteins. Advances in Polymer Technology, 2020, 2020, 1-12.	0.8	2
48	Recovery of roseoflavin from a recombinant <i>Streptomyces davaonensis</i> strain by using biphasic aqueous systems. Journal of Chemical Technology and Biotechnology, 2021, 96, 2529-2536.	1.6	2
49	Characterization of Aqueous Two-Phase Systems and Their Potential New Applications. Food Engineering Series, 2017, , 19-33.	0.3	1
50	Progress in nanostructure understanding of edible crystalline fats and their application in nano-delivery systems: Cocoa butter as a model. Food Research International, 2021, 147, 110561.	2.9	1
51	Virtual Reality Immersion: Taste and Texture Changes for Identical Samples of Two Common Condiments. Chemosensory Perception, 2022, 15, 87-94.	0.7	1
52	Mono-PEGylated lysozyme purification with increased productivity and isomer differentiation through heparin monolith chromatography. Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences, 2022, 1204, 123323.	1.2	1
53	Case Studies in the Application of Aqueous Two-Phase Processes for the Recovery of High Value Biological Products. ACS Symposium Series, 2013, , 33-50.	0.5	0
54	Plasma-induced customizable poly(ester-urethane) surface for cell culture platforms. Materials Today Communications, 2021, 26, 101891.	0.9	0

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55	Sodium carbonate versus borate buffer for lactase quenching, laboratory work. <i>Biochemistry and Molecular Biology Education</i> , 2021, 49, 935-941.	0.5	0
56	Practical Aspects for the Development of ATPS-Based Processes for Protein Recovery. <i>Food Engineering Series</i> , 2017, , 35-53.	0.3	0