

# Viviane M Gonçalves

## List of Publications by Year in descending order

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Version: 2024-02-01

50  
papers

833  
citations

471061

17  
h-index

552369

26  
g-index

50  
all docs

50  
docs citations

50  
times ranked

906  
citing authors

#	ARTICLE	IF	CITATIONS
1	Optimization and scale-up production of Zika virus NS1 in Escherichia coli: application of Response Surface Methodology. <i>AMB Express</i> , 2020, 10, 1.	1.4	87
2	GMP-grade pneumococcal whole-cell vaccine injected subcutaneously protects mice from nasopharyngeal colonization and fatal aspiration-sepsis. <i>Vaccine</i> , 2010, 28, 7468-7475.	1.7	85
3	Pulmonary dry powder vaccine of pneumococcal antigen loaded nanoparticles. <i>International Journal of Pharmaceutics</i> , 2015, 495, 903-912.	2.6	58
4	Mucosal immunization with PspA (Pneumococcal surface protein A)-adsorbed nanoparticles targeting the lungs for protection against pneumococcal infection. <i>PLoS ONE</i> , 2018, 13, e0191692.	1.1	40
5	Cost analysis based on bioreactor cultivation conditions: Production of a soluble recombinant protein using Escherichia coli BL21(DE3). <i>Biotechnology Reports (Amsterdam, Netherlands)</i> , 2020, 26, e00441.	2.1	37
6	Purification of capsular polysaccharide from Streptococcus pneumoniae serotype 23F by a procedure suitable for scale-up. <i>Biotechnology and Applied Biochemistry</i> , 2003, 37, 283.	1.4	34
7	Development of production and purification processes of recombinant fragment of pneumococcal surface protein A in Escherichia coli using different carbon sources and chromatography sequences. <i>Applied Microbiology and Biotechnology</i> , 2012, 94, 683-694.	1.7	32
8	Optimization of medium and cultivation conditions for capsular polysaccharide production by Streptococcus pneumoniae serotype 23F. <i>Applied Microbiology and Biotechnology</i> , 2002, 59, 713-717.	1.7	30
9	Development of a whole cell pneumococcal vaccine: BPL inactivation, cGMP production, and stability. <i>Vaccine</i> , 2014, 32, 1113-1120.	1.7	30
10	Conjugation of Polysaccharide 6B from Streptococcus pneumoniae with Pneumococcal Surface Protein A: PspA Conformation and Its Effect on the Immune Response. <i>Vaccine Journal</i> , 2013, 20, 858-866.	3.2	26
11	ON-LINE MONITORING OF BIOMASS CONCENTRATION BASED ON A CAPACITANCE SENSOR: ASSESSING THE METHODOLOGY FOR DIFFERENT BACTERIA AND YEAST HIGH CELL DENSITY FED-BATCH CULTURES. <i>Brazilian Journal of Chemical Engineering</i> , 2015, 32, 821-829.	0.7	25
12	Intensification of high cell-density cultivations of rE. coli for production of S. pneumoniae antigenic surface protein, PspA3, using model-based adaptive control. <i>Bioprocess and Biosystems Engineering</i> , 2012, 35, 1269-1280.	1.7	24
13	IL-17A and complement contribute to killing of pneumococci following immunization with a pneumococcal whole cell vaccine. <i>Vaccine</i> , 2017, 35, 1306-1315.	1.7	24
14	Albumin purification from human placenta. <i>Biotechnology and Applied Biochemistry</i> , 2000, 31, 101.	1.4	21
15	Protection induced by pneumococcal surface protein A (PspA) is enhanced by conjugation to a Streptococcus pneumoniae capsular polysaccharide. <i>Vaccine</i> , 2008, 26, 2925-2929.	1.7	21
16	A supervision and control tool based on artificial intelligence for high cell density cultivations. <i>Brazilian Journal of Chemical Engineering</i> , 2014, 31, 457-468.	0.7	19
17	Anti-Flavivirus Vaccines: Review of the Present Situation and Perspectives of Subunit Vaccines Produced in Escherichia coli. <i>Vaccines</i> , 2020, 8, 492.	2.1	18
18	Production and purification of an untagged recombinant pneumococcal surface protein A (PspA4Pro) with high-purity and low endotoxin content. <i>Applied Microbiology and Biotechnology</i> , 2017, 101, 2305-2317.	1.7	17

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19	Modeling and simulation of anion exchange chromatography for purification of proteins in complex mixtures. <i>Journal of Chromatography A</i> , 2020, 1613, 460685.	1.8	17
20	Pneumococcal whole-cell vaccine: optimization of cell growth of unencapsulated <i>Streptococcus pneumoniae</i> in bioreactor using animal-free medium. <i>Journal of Industrial Microbiology and Biotechnology</i> , 2008, 35, 1441-1445.	1.4	15
21	Humoral immune response of a pneumococcal conjugate vaccine: Capsular polysaccharide serotype 14-lysine modified PspA. <i>Vaccine</i> , 2011, 29, 8689-8695.	1.7	15
22	Recombinant protein production by engineered <i>Escherichia coli</i> in a pressurized airlift bioreactor: A techno-economic analysis. <i>Chemical Engineering and Processing: Process Intensification</i> , 2016, 103, 63-69.	1.8	12
23	Conjugation of PspA4Pro with Capsular <i>Streptococcus pneumoniae</i> Polysaccharide Serotype 14 Does Not Reduce the Induction of Cross-Reactive Antibodies. <i>Vaccine Journal</i> , 2017, 24, .	3.2	12
24	Production and purification of recombinant fragment of pneumococcal surface protein A (PspA) in <i>Escherichia coli</i> . <i>Procedia in Vaccinology</i> , 2011, 4, 27-35.	0.4	11
25	Evaluation of polymer choice on immunogenicity of chitosan coated PLGA NPs with surface-adsorbed pneumococcal protein antigen PspA4Pro. <i>International Journal of Pharmaceutics</i> , 2021, 599, 120407.	2.6	10
26	Robust artificial intelligence tool for automatic start-up of the supplementary medium feeding in recombinant <i>E. coli</i> cultivations. <i>Bioprocess and Biosystems Engineering</i> , 2011, 34, 891-901.	1.7	9
27	High stabilization and hyperactivation of a Recombinant $\beta$ -Xylosidase through Immobilization Strategies. <i>Enzyme and Microbial Technology</i> , 2021, 145, 109725.	1.6	9
28	Progress in mucosal immunization for protection against pneumococcal pneumonia. <i>Expert Review of Vaccines</i> , 2019, 18, 781-792.	2.0	8
29	Accumulation of organic acids in cultivations of <i>Neisseria meningitidis</i> C. <i>Journal of Industrial Microbiology and Biotechnology</i> , 2006, 33, 869-877.	1.4	7
30	DEVELOPMENT OF A NEW PROCESS FOR PURIFICATION OF CAPSULAR POLYSACCHARIDE FROM <i>Streptococcus pneumoniae</i> SEROTYPE 14. <i>Brazilian Journal of Chemical Engineering</i> , 2016, 33, 435-443.	0.7	7
31	Crystallization and preliminary X-ray diffraction studies of human catalase. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 1999, 55, 1614-1615.	2.5	6
32	ClearColi as a platform for untagged pneumococcal surface protein A production: cultivation strategy, bioreactor culture, and purification. <i>Applied Microbiology and Biotechnology</i> , 2022, 106, 1011-1029.	1.7	6
33	Pneumococcal Surface Protein A-Hybrid Nanoparticles Protect Mice from Lethal Challenge after Mucosal Immunization Targeting the Lungs. <i>Pharmaceutics</i> , 2022, 14, 1238.	2.0	6
34	An associated process for the purification of immuno globulin G, catalase, superoxide dismutase and albumin from haemolysed human placenta blood. <i>Biotechnology and Applied Biochemistry</i> , 2001, 34, 135.	1.4	5
35	Introduction of air in the anaerobic culture of <i>Streptococcus pneumoniae</i> serotype 23F induces the release of capsular polysaccharide from bacterial surface into the cultivation medium. <i>Journal of Applied Microbiology</i> , 2006, 101, 1009-1014.	1.4	5
36	Capsular polysaccharide production by <i>Streptococcus pneumoniae</i> serotype 1: from strain selection to fed-batch cultivation. <i>Applied Microbiology and Biotechnology</i> , 2015, 99, 10447-10456.	1.7	5

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37	A new vector for heterologous gene expression in Escherichia coli with increased stability in the absence of antibiotic. <i>Plasmid</i> , 2018, 98, 22-30.	0.4	5
38	Quantification of capsular polysaccharide of Streptococcus pneumoniae serotype 14 in culture broth samples. <i>Analytical Biochemistry</i> , 2012, 421, 250-255.	1.1	4
39	High cell density co-culture for production of recombinant hydrolases. <i>Biochemical Engineering Journal</i> , 2013, 71, 38-46.	1.8	4
40	Improved capsular polysaccharide production by Streptococcus pneumoniae serotype 14 using continuous cultivation. <i>Biochemical Engineering Journal</i> , 2014, 91, 16-22.	1.8	4
41	Robust Immune Response Induced by Schistosoma mansoni TSP-2 Antigen Coupled to Bacterial Outer Membrane Vesicles. <i>International Journal of Nanomedicine</i> , 2021, Volume 16, 7153-7168.	3.3	4
42	Strategies for the Production of Soluble Interferon-Alpha Consensus and Potential Application in Arboviruses and SARS-CoV-2. <i>Life</i> , 2021, 11, 460.	1.1	3
43	A Heuristic Search for Optimal Parameter Values of Three Biokinetic Growth Models for Describing Batch Cultivations of Streptococcus Pneumoniae in Bioreactors. <i>Lecture Notes in Computer Science</i> , 2008, , 359-368.	1.0	3
44	Learning about Microorganisms in Childhood: Four- to Six-Year-Old Children's Voice in Kindergartens and Museums. <i>Revista Brasileira De Pesquisa Em Educaçãõ Em Ciãncias</i> , 0, , 1-25.	0.0	3
45	On-line prediction of the feeding phase in high-cell density cultivation of rE. coli using constructive neural networks. <i>Computer Methods and Programs in Biomedicine</i> , 2013, 111, 228-248.	2.6	2
46	Process intensification for production of Streptococcus pneumoniae whole-cell vaccine. <i>Biotechnology and Bioengineering</i> , 2020, 117, 1661-1672.	1.7	2
47	Development of recombinant human granulocyte colony-stimulating factor (nartograstim) production process in Escherichia coli compatible with industrial scale and with no antibiotics in the culture medium. <i>Applied Microbiology and Biotechnology</i> , 2021, 105, 169-183.	1.7	2
48	Optimization of Expression and Purification of Schistosoma mansoni Antigens in Fusion with Rhizavidin. <i>Molecular Biotechnology</i> , 2021, 63, 983-991.	1.3	2
49	Children as curators: how to incorporate young visitors's voices into the elaboration and evaluation of a microbiology exhibition. <i>Historia, Ciencias, Saude - Manguinhos</i> , 2019, 26, 85-101.	0.1	1
50	An Empirical Investigation of the Use of a Neural Network Committee for Identifying the Streptococcus Pneumoniae Growth Phases in Batch Cultivations. <i>Lecture Notes in Computer Science</i> , 2008, , 215-224.	1.0	1