Matthieu Stettler

List of Publications by Year
in descending order

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29	1,291	279798	477307
papers	citations	23 h-index	29 g-index

30	30	30	993
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Lactate metabolism shift in CHO cell culture: the role of mitochondrial oxidative activity. New Biotechnology, 2013, 30, 238-245.	4.4	158
2	Experimental and CFD physical characterization of animal cell bioreactors: From micro- to production scale. Biochemical Engineering Journal, 2018, 131, 84-94.	3.6	73
3	Modulation and modeling of monoclonal antibody Nâ€linked glycosylation in mammalian cell perfusion reactors. Biotechnology and Bioengineering, 2017, 114, 1978-1990.	3.3	72
4	Novel Orbital Shake Bioreactors for Transient Production of CHO Derived IgGs. Biotechnology Progress, 2007, 23, 1340-1346.	2.6	70
5	A high-throughput media design approach for high performance mammalian fed-batch cultures. MAbs, 2013, 5, 501-511.	5.2	68
6	Tailoring recombinant protein quality by rational media design. Biotechnology Progress, 2015, 31, 615-629.	2.6	64
7	Efficient oxygen transfer by surface aeration in shaken cylindrical containers for mammalian cell cultivation at volumetric scales up to 1000L. Biochemical Engineering Journal, 2009, 45, 41-47.	3.6	62
8	Determination of the maximum operating range of hydrodynamic stress in mammalian cell culture. Journal of Biotechnology, 2015, 194, 100-109.	3.8	62
9	Microfabricated solenoids and Helmholtz coils for NMR spectroscopy of mammalian cells. Lab on A Chip, 2007, 7, 373.	6.0	56
10	Controlling the time evolution of mAb Nâ€linked glycosylation â€•Part II: Modelâ€based predictions. Biotechnology Progress, 2016, 32, 1135-1148.	2.6	53
11	New disposable tubes for rapid and precise biomass assessment for suspension cultures of mammalian cells. Biotechnology and Bioengineering, 2006, 95, 1228-1233.	3.3	46
12	Controlling the time evolution of mAb Nâ€linked glycosylation, Part I: Microbioreactor experiments. Biotechnology Progress, 2016, 32, 1123-1134.	2.6	43
13	Use of Orbital Shaken Disposable Bioreactors for Mammalian Cell Cultures from the Milliliter-Scale to the 1,000-Liter Scale. Advances in Biochemical Engineering/Biotechnology, 2009, 115, 33-53.	1.1	42
14	Glycosylation flux analysis reveals dynamic changes of intracellular glycosylation flux distribution in Chinese hamster ovary fed-batch cultures. Metabolic Engineering, 2017, 43, 9-20.	7.0	42
15	Modulation of <scp>mAb</scp> quality attributes using microliter scale fedâ€batch cultures. Biotechnology Progress, 2014, 30, 571-583.	2.6	40
16	Fingerprint detection and process prediction by multivariate analysis of fedâ€batch monoclonal antibody cell culture data. Biotechnology Progress, 2015, 31, 1633-1644.	2.6	37
17	Shaken helical track bioreactors: Providing oxygen to high-density cultures of mammalian cells at volumes up to 1000L by surface aeration with air. New Biotechnology, 2008, 25, 68-75.	4.4	36
18	Screening and assessment of performance and molecule quality attributes of industrial cell lines across different fed-batch systems. Biotechnology Progress, 2016, 32, 160-170.	2.6	35

#	Article	IF	Citations
19	High-throughput profiling of nucleotides and nucleotide sugars to evaluate their impact on antibody N-glycosylation. Journal of Biotechnology, 2016, 229, 3-12.	3.8	35
20	Robust factor selection in early cell culture process development for the production of a biosimilar monoclonal antibody. Biotechnology Progress, 2017, 33, 181-191.	2.6	33
21	Effect of hydrocortisone on the production and glycosylation of an Fcâ€fusion protein in CHO cell cultures. Biotechnology Progress, 2012, 28, 803-813.	2.6	32
22	Intensification of large-scale cell culture processes. Current Opinion in Chemical Engineering, 2018, 22, 253-257.	7.8	26
23	Pilot-scale verification of maximum tolerable hydrodynamic stress for mammalian cell culture. Applied Microbiology and Biotechnology, 2016, 100, 3489-3498.	3.6	24
24	Cell culture process metabolomics together with multivariate data analysis tools opens new routes for bioprocess development and glycosylation prediction. Biotechnology Progress, 2020, 36, e3012.	2.6	23
25	Proteomic analysis of micro-scale bioreactors as scale-down model for a mAb producing CHO industrial fed-batch platform. Journal of Biotechnology, 2018, 279, 27-36.	3.8	18
26	NMR spectroscopy and perfusion of mammalian cells using surface microprobes. Lab on A Chip, 2007, 7, 381.	6.0	16
27	High expression of the aspartateâ€“glutamate carrier Aralar1 favors lactate consumption in CHO cell culture. Pharmaceutical Bioprocessing, 2013, 1, 19-27.	0.8	15
28	Tools for High-Throughput Process and Medium Optimization. Methods in Molecular Biology, 2014, 1104, 77-88.	0.9	7
29	Will we ever find a perfect medium for mammalian cell culture?. Pharmaceutical Bioprocessing, 2013, 1, 411-413.	0.8	3