

Susan T Sharfstein

List of Publications by Year in descending order

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71
papers

2,289
citations

236612

25
h-index

223531

46
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75
all docs

75
docs citations

75
times ranked

2612
citing authors

#	ARTICLE	IF	CITATIONS
1	Alginate Hydrogel Microtubes for Salivary Gland Cell Organization and Cavitation. <i>Bioengineering</i> , 2022, 9, 38.	1.6	7
2	Multiplex genome editing of mammalian cells for producing recombinant heparin. <i>Metabolic Engineering</i> , 2022, 70, 155-165.	3.6	5
3	Evaluation of site-specific methylation of the CMV promoter and its role in CHO cell productivity of a recombinant monoclonal antibody. <i>Antibody Therapeutics</i> , 2022, 5, 121-129.	1.2	2
4	Engineering cryoelectrospun elastin-alginate scaffolds to serve as stromal extracellular matrices. <i>Biofabrication</i> , 2022, 14, 035010.	3.7	4
5	PTSelect, a post-transcriptional technology that enables rapid establishment of stable CHO cell lines and surveillance of clonal variation. <i>Journal of Biotechnology</i> , 2021, 325, 360-371.	1.9	3
6	High-throughput and automation advances for accelerating single-cell cloning, monoclonality and early phase clone screening steps in mammalian cell line development for biologics production. <i>Biotechnology Progress</i> , 2021, 37, e3208.	1.3	8
7	Insulin production from hiPSC-derived pancreatic cells in a novel wicking matrix bioreactor. <i>Biotechnology and Bioengineering</i> , 2020, 117, 2247-2261.	1.7	2
8	Increased mAb production in amplified CHO cell lines is associated with increased interaction of CREB1 with transgene promoter. <i>Current Research in Biotechnology</i> , 2019, 1, 49-57.	1.9	12
9	Proteogenomic Annotation of Chinese Hamsters Reveals Extensive Novel Translation Events and Endogenous Retroviral Elements. <i>Journal of Proteome Research</i> , 2019, 18, 2433-2445.	1.8	15
10	Applications of Nanotechnology to Bioprocessing. , 2019, , 712-730.		0
11	Non-protein biologic therapeutics. <i>Current Opinion in Biotechnology</i> , 2018, 53, 65-75.	3.3	18
12	Glycoengineering in CHO Cells: Advances in Systems Biology. <i>Biotechnology Journal</i> , 2018, 13, e1700234.	1.8	51
13	<i>In silico</i> characterization of enantioselective molecularly imprinted binding sites. <i>Journal of Molecular Recognition</i> , 2018, 31, e2612.	1.1	10
14	Metabolic engineering of mammalian cells to produce heparan sulfates. <i>Emerging Topics in Life Sciences</i> , 2018, 2, 443-452.	1.1	4
15	Reactivity of deposited byproducts generated from ZrO ₂ atomic layer deposition. <i>Journal of Loss Prevention in the Process Industries</i> , 2017, 45, 78-87.	1.7	1
16	The Omics Revolution in CHO Biology: Roadmap to Improved CHO Productivity. <i>Methods in Molecular Biology</i> , 2017, 1603, 153-168.	0.4	10
17	Biosimilars: Imitation Games. <i>ACS Medicinal Chemistry Letters</i> , 2017, 8, 690-693.	1.3	6
18	Industrial Production of Glycosaminoglycans. , 2017, , .		6

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19	Heparin: Past, Present, and Future. <i>Pharmaceuticals</i> , 2016, 9, 38.	1.7	181
20	TGF β 2-induced outflow alterations in a bioengineered trabecular meshwork are offset by a rho-associated kinase inhibitor. <i>Scientific Reports</i> , 2016, 6, 38319.	1.6	44
21	Computational investigation of stoichiometric effects, binding site heterogeneities, and selectivities of molecularly imprinted polymers. <i>Journal of Molecular Modeling</i> , 2016, 22, 139.	0.8	18
22	Omics insights into production-scale bioreactors. <i>Biotechnology Journal</i> , 2016, 11, 1124-1125.	1.8	2
23	Bioengineered glaucomatous 3D human trabecular meshwork as an in vitro disease model. <i>Biotechnology and Bioengineering</i> , 2016, 113, 1357-1368.	1.7	42
24	Optimization of bioprocess conditions improves production of a CHO cell-derived, bioengineered heparin. <i>Biotechnology Journal</i> , 2015, 10, 1067-1081.	1.8	26
25	A Closer Look at Schlemm's Canal Cell Physiology: Implications for Biomimetics. <i>Journal of Functional Biomaterials</i> , 2015, 6, 963-985.	1.8	27
26	A biomimetic Schlemm's canal inner wall: A model to study outflow physiology, glaucoma pathology and high-throughput drug screening. <i>Biomaterials</i> , 2015, 65, 86-92.	5.7	22
27	Modulation of heparan sulfate biosynthesis by sodium butyrate in recombinant CHO cells. <i>Cytotechnology</i> , 2015, 67, 223-235.	0.7	4
28	Role of epigenetics in expression of recombinant proteins from mammalian cells. <i>Pharmaceutical Bioprocessing</i> , 2014, 2, 403-419.	0.8	11
29	Microarray platform affords improved product analysis in mammalian cell growth studies. <i>Biotechnology Journal</i> , 2014, 9, 386-395.	1.8	7
30	Reduced Culture Temperature Differentially Affects Expression and Biophysical Properties of Monoclonal Antibody Variants. <i>Antibodies</i> , 2014, 3, 253-271.	1.2	17
31	Bioengineering murine mastocytoma cells to produce anticoagulant heparin. <i>Glycobiology</i> , 2014, 24, 272-280.	1.3	14
32	Walking through trabecular meshwork biology: Toward engineering design of outflow physiology. <i>Biotechnology Advances</i> , 2014, 32, 971-983.	6.0	36
33	Bioengineered Chinese Hamster Ovary Cells with Golgi-targeted 3-O-Sulfotransferase-1 Biosynthesize Heparan Sulfate with an Antithrombin-binding Site. <i>Journal of Biological Chemistry</i> , 2013, 288, 37308-37318.	1.6	27
34	An 'omics approach towards CHO cell engineering. <i>Biotechnology and Bioengineering</i> , 2013, 110, 1255-1271.	1.7	106
35	Recreating a human trabecular meshwork outflow system on microfabricated porous structures. <i>Biotechnology and Bioengineering</i> , 2013, 110, 3205-3218.	1.7	51
36	Toward a bioengineered heparin. <i>Bioengineered</i> , 2012, 3, 227-231.	1.4	11

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37	High-Throughput Transfection of Interfering RNA into a 3D Cell Culture Chip. <i>Small</i> , 2012, 8, 2091-2098.	5.2	13
38	Identifying bottlenecks in transient and stable production of recombinant monoclonal antibody sequence variants in chinese hamster ovary cells. <i>Biotechnology Progress</i> , 2012, 28, 846-855.	1.3	38
39	Metabolic engineering of Chinese hamster ovary cells: Towards a bioengineered heparin. <i>Metabolic Engineering</i> , 2012, 14, 81-90.	3.6	67
40	Effects of clonal variation on growth, metabolism, and productivity in response to trophic factor stimulation: a study of Chinese hamster ovary cells producing a recombinant monoclonal antibody. <i>Cytotechnology</i> , 2012, 64, 27-41.	0.7	17
41	Applications of Nanotechnology to Bioprocessing. , 2012, , 323-366.		0
42	Observations of cell size dynamics under osmotic stress. <i>Cytometry Part A: the Journal of the International Society for Analytical Cytology</i> , 2011, 79A, 560-569.	1.1	46
43	Ultra-performance ion-pairing liquid chromatography with on-line electrospray ion trap mass spectrometry for heparin disaccharide analysis. <i>Analytical Biochemistry</i> , 2011, 415, 59-66.	1.1	66
44	A flexible state-space approach for the modeling of metabolic networks I: Development of mathematical methods. <i>Metabolic Engineering</i> , 2011, 13, 125-137.	3.6	6
45	A flexible state-space approach for the modeling of metabolic networks II: Advanced interrogation of hybridoma metabolism. <i>Metabolic Engineering</i> , 2011, 13, 138-149.	3.6	1
46	Transcriptomic responses to sodium chloride-induced osmotic stress: A study of industrial fed-batch CHO cell cultures. <i>Biotechnology Progress</i> , 2010, 26, 1104-1115.	1.3	50
47	On the dynamic modeling of mammalian cell metabolism and mAb production. <i>Computers and Chemical Engineering</i> , 2010, 34, 210-222.	2.0	14
48	Gene Delivery in Three-Dimensional Cell Cultures by Superparamagnetic Nanoparticles. <i>ACS Nano</i> , 2010, 4, 4733-4743.	7.3	80
49	Characterization of gene localization and accessibility in DHFR-amplified CHO cells. <i>Biotechnology Progress</i> , 2009, 25, 296-300.	1.3	6
50	The effects of microcarrier culture on recombinant CHO cells under biphasic hypothermic culture conditions. <i>Cytotechnology</i> , 2009, 59, 81-91.	0.7	13
51	Parallel Synthesis and Screening of Polymers for Nonviral Gene Delivery. <i>Molecular Pharmaceutics</i> , 2009, 6, 86-97.	2.3	55
52	Sodium butyrate stimulates monoclonal antibody overexpression in CHO cells by improving gene accessibility. <i>Biotechnology and Bioengineering</i> , 2008, 100, 189-194.	1.7	95
53	The effects of culture conditions on the glycosylation of secreted human placental alkaline phosphatase produced in Chinese hamster ovary cells. <i>Biotechnology and Bioengineering</i> , 2008, 100, 1178-1192.	1.7	62
54	Hyperosmotic Stress in Murine Hybridoma Cells: Effects on Antibody Transcription, Translation, Posttranslational Processing, and the Cell Cycle. <i>Biotechnology Progress</i> , 2008, 20, 576-589.	1.3	34

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55	Cell Attachment to Microcarriers Affects Growth, Metabolic Activity, and Culture Productivity in Bioreactor Culture. <i>Biotechnology Progress</i> , 2008, 23, 652-660.	1.3	29
56	Optimized Removal of Soluble Host Cell Proteins for the Recovery of met-Human Growth Hormone Inclusion Bodies from <i>Escherichia coli</i> Cell Lysate Using Crossflow Microfiltration. <i>Biotechnology Progress</i> , 2008, 23, 667-672.	1.3	15
57	Advances in Cell Culture Process Development: Tools and Techniques for Improving Cell Line Development and Process Optimization. <i>Biotechnology Progress</i> , 2008, 24, 727-734.	1.3	7
58	Molecular Response to Osmotic Shock. <i>Cell Engineering</i> , 2007, , 213-236.	0.4	4
59	Regulation of Recombinant Monoclonal Antibody Production in Chinese Hamster Ovary Cells: A Comparative Study of Gene Copy Number, mRNA Level, and Protein Expression. <i>Biotechnology Progress</i> , 2006, 22, 313-318.	1.3	91
60	Genome-wide analysis of the transcriptional response of murine hybridomas to osmotic shock. <i>Biotechnology and Bioengineering</i> , 2006, 93, 132-145.	1.7	36
61	Techniques for Dual Staining of DNA and Intracellular Immunoglobulins in Murine Hybridoma Cells: Applications to Cell-Cycle Analysis of Hyperosmotic Cultures. <i>Cytotechnology</i> , 2005, 48, 15-26.	0.7	5
62	Reproducibility of the high-performance liquid chromatographic fingerprints obtained from two soybean cultivars and a selected progeny. <i>Journal of Chromatography A</i> , 2001, 915, 61-74.	1.8	18
63	Modulation of the phosphate-starvation response in <i>Escherichia coli</i> by genetic manipulation of the polyphosphate pathways. , 2000, 51, 434-438.		10
64	Repetitive, non-invasive imaging of the dopamine D2 receptor as a reporter gene in living animals. <i>Gene Therapy</i> , 1999, 6, 785-791.	2.3	356
65	Effect of extracellular glutamine concentration on primary and secondary metabolism of a murine hybridoma: An in vivo ^{13}C nuclear magnetic resonance study. <i>Biotechnology and Bioengineering</i> , 1998, 57, 172-186.	1.7	28
66	Modulation of the phosphate-starvation response in <i>Escherichia coli</i> by genetic manipulation of the polyphosphate pathways. , 1996, 51, 434.		6
67	Quantitative in vivo nuclear magnetic resonance studies of hybridoma metabolism. <i>Biotechnology and Bioengineering</i> , 1994, 43, 1059-1074.	1.7	86
68	Examination of primary metabolic pathways in a murine hybridoma with carbon-13 nuclear magnetic resonance spectroscopy. <i>Biotechnology and Bioengineering</i> , 1994, 44, 563-585.	1.7	98
69	Polyphosphate Metabolism in <i>Escherichia coli</i> . <i>Annals of the New York Academy of Sciences</i> , 1994, 745, 77-91.	1.8	24
70	Functional differentiation and primary metabolism of mouse mammary epithelial cells in extended-batch and hollow-fiber culture. <i>Biotechnology and Bioengineering</i> , 1992, 40, 672-680.	1.7	0
71	A novel technique for determining magnet cleanliness - NMR spectroscopy. <i>IEEE Transactions on Magnetism</i> , 1987, 23, 3602-3604.	1.2	0