

Pinar Āalik

List of Publications by Year in descending order

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95
papers

2,451
citations

201674

27
h-index

233421

45
g-index

100
all docs

100
docs citations

100
times ranked

1992
citing authors

#	ARTICLE	IF	CITATIONS
1	Production of recombinant proteins by yeast cells. <i>Biotechnology Advances</i> , 2012, 30, 1108-1118.	11.7	272
2	Fed-Batch methanol feeding strategy for recombinant protein production by <i>Pichia pastoris</i> in the presence of co-substrate sorbitol. <i>Yeast</i> , 2009, 26, 473-484.	1.7	102
3	Oxygen transfer effects in serine alkaline protease fermentation by <i>Bacillus licheniformis</i> : use of citric acid as the carbon source. <i>Enzyme and Microbial Technology</i> , 1998, 23, 451-461.	3.2	92
4	Recombinant protein production in <i>Pichia pastoris</i> under glyceraldehyde-3-phosphate dehydrogenase promoter: From carbon source metabolism to bioreactor operation parameters. <i>Biochemical Engineering Journal</i> , 2015, 95, 20-36.	3.6	85
5	Fed-Batch Biomolecule Production by <i>Bacillus subtilis</i> : A State of the Art Review. <i>Trends in Biotechnology</i> , 2016, 34, 329-345.	9.3	77
6	Oxygen transfer effects on recombinant benzaldehyde lyase production. <i>Chemical Engineering Science</i> , 2004, 59, 5075-5083.	3.8	74
7	Oxygen-transfer strategy and its regulation effects in serine alkaline protease production by <i>Bacillus licheniformis</i> . <i>Biotechnology and Bioengineering</i> , 2000, 69, 301-311.	3.3	70
8	BIOPROCESS DEVELOPMENT FOR SERINE ALKALINE PROTEASE PRODUCTION: A REVIEW. <i>Reviews in Chemical Engineering</i> , 2001, 17, 1-62.	4.4	70
9	Use of Biodiesel Byproduct Crude Glycerol as the Carbon Source for Fermentation Processes by Recombinant <i>Pichia pastoris</i> . <i>Industrial & Engineering Chemistry Research</i> , 2008, 47, 2985-2990.	3.7	64
10	Metabolic flux analysis for serine alkaline protease fermentation by <i>Bacillus licheniformis</i> in a defined medium: Effects of the oxygen transfer rate. , 1999, 64, 151-167.		61
11	Metabolic flux analysis for recombinant protein production by <i>Pichia pastoris</i> using dual carbon sources: Effects of methanol feeding rate. <i>Biotechnology and Bioengineering</i> , 2010, 105, 317-329.	3.3	60
12	Lignocellulose degrading extremozymes produced by <i>Pichia pastoris</i> : current status and future prospects. <i>Bioprocess and Biosystems Engineering</i> , 2016, 39, 1-36.	3.4	59
13	Double promoter expression systems for recombinant protein production by industrial microorganisms. <i>Applied Microbiology and Biotechnology</i> , 2017, 101, 7459-7475.	3.6	54
14	Transcriptional engineering of the glyceraldehyde-3-phosphate dehydrogenase promoter for improved heterologous protein production in <i>Pichia pastoris</i> . <i>Biotechnology and Bioengineering</i> , 2017, 114, 2319-2327.	3.3	51
15	The influence of carbon sources on recombinant-human- growth-hormone production by <i>Pichia pastoris</i> is dependent on phenotype: a comparison of Mut ^s and Mut ⁺ strains. <i>Biotechnology and Applied Biochemistry</i> , 2009, 52, 245.	3.1	49
16	Carbon sources affect metabolic capacities of <i>Bacillus</i> species for the production of industrial enzymes: theoretical analyses for serine and neutral proteases and α -amylase. <i>Biochemical Engineering Journal</i> , 2001, 8, 61-81.	3.6	44
17	Influence of pH conditions on metabolic regulations in serine alkaline protease production by <i>Bacillus licheniformis</i> . <i>Enzyme and Microbial Technology</i> , 2002, 31, 685-697.	3.2	44
18	Influence of pH on recombinant human growth hormone production by <i>Pichia pastoris</i> . <i>Journal of Chemical Technology and Biotechnology</i> , 2010, 85, 1628-1635.	3.2	44

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19	Effects of Spray Drying Temperature and Additives on the Stability of Serine Alkaline Protease Powders. <i>Drying Technology</i> , 2006, 24, 1495-1500.	3.1	41
20	Mass flux balance-based model and metabolic pathway engineering analysis for serine alkaline protease synthesis by <i>Bacillus licheniformis</i> . <i>Enzyme and Microbial Technology</i> , 1999, 24, 621-635.	3.2	37
21	A single Gal4-like transcription factor activates the Crabtree effect in <i>Komagataella phaffii</i> . <i>Nature Communications</i> , 2018, 9, 4911.	12.8	36
22	Production of recombinant human erythropoietin from <i>Pichia pastoris</i> and its structural analysis. <i>Journal of Applied Microbiology</i> , 2007, 103, 2084-2094.	3.1	34
23	Engineering of <i>alcohol dehydrogenase 2</i> hybrid promoter architectures in <i>Pichia pastoris</i> to enhance recombinant protein expression on ethanol. <i>Biotechnology and Bioengineering</i> , 2019, 116, 2674-2686.	3.3	33
24	Bioreactor operation parameters as tools for metabolic regulations in fermentation processes: influence of pH conditions. <i>Chemical Engineering Science</i> , 2003, 58, 759-766.	3.8	31
25	Influence of controlled-pH and uncontrolled-pH operations on recombinant benzaldehyde lyase production by <i>Escherichia coli</i> . <i>Enzyme and Microbial Technology</i> , 2006, 38, 617-627.	3.2	30
26	In-silico determination of <i>Pichia pastoris</i> signal peptides for extracellular recombinant protein production. <i>Journal of Theoretical Biology</i> , 2015, 364, 179-188.	1.7	29
27	Expression system for recombinant human growth hormone production from <i>Bacillus subtilis</i> . <i>Biotechnology Progress</i> , 2009, 25, 75-84.	2.6	28
28	Effects of pH Strategy on endo- and exo-Metabolome Profiles and Sodium Potassium Hydrogen Ports of \hat{I}^2 -Lactamase-Producing <i>Bacillus licheniformis</i> . <i>Biotechnology Progress</i> , 2006, 22, 411-419.	2.6	27
29	Bioprocess Parameters and Oxygen Transfer Characteristics in \hat{I}^2 -Lactamase Production by <i>Bacillus</i> Species. <i>Biotechnology Progress</i> , 2008, 20, 491-499.	2.6	27
30	Endogenous signal peptides in recombinant protein production by <i>Pichia pastoris</i> : From in-silico analysis to fermentation. <i>Journal of Theoretical Biology</i> , 2016, 408, 22-33.	1.7	26
31	Expression System for Synthesis and Purification of Recombinant Human Growth Hormone in <i>Pichia pastoris</i> and Structural Analysis by MALDI-ToF Mass Spectrometry. <i>Biotechnology Progress</i> , 2008, 24, 221-226.	2.6	25
32	Codon optimization of <i>xylA</i> gene for recombinant glucose isomerase production in <i>Pichia pastoris</i> and fed-batch feeding strategies to fine-tune bioreactor performance. <i>Bioprocess and Biosystems Engineering</i> , 2015, 38, 889-903.	3.4	25
33	Established and Upcoming Yeast Expression Systems. <i>Methods in Molecular Biology</i> , 2019, 1923, 1-74.	0.9	25
34	Separation of the protease enzymes of <i>Bacillus licheniformis</i> from the fermentation medium by crossflow ultrafiltration. <i>Journal of Chemical Technology and Biotechnology</i> , 2000, 75, 491-499.	3.2	23
35	Fermentation characteristics of l-tryptophan production by thermoacidophilic <i>Bacillus acidocaldarius</i> in a defined medium. <i>Enzyme and Microbial Technology</i> , 2006, 39, 1077-1088.	3.2	23
36	A rapid method for detection of genetically modified organisms based on magnetic separation and surface-enhanced Raman scattering. <i>Analyst, The</i> , 2012, 137, 202-208.	3.5	23

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37	Analyses of extracellular protein production in <i>Bacillus subtilis</i> "I: Genome-scale metabolic model reconstruction based on updated gene-enzyme-reaction data. <i>Biochemical Engineering Journal</i> , 2017, 127, 229-241.	3.6	23
38	Novel Antifoam for Fermentation Processes: A Fluorocarbon-Hydrocarbon Hybrid Unsymmetrical Bolaform Surfactant. <i>Langmuir</i> , 2005, 21, 8613-8619.	3.5	22
39	Enhanced recombinant human erythropoietin production by <i>Pichia pastoris</i> in methanol fed-batch/sorbitol batch fermentation through pH optimization. <i>Biochemical Engineering Journal</i> , 2011, 55, 59-65.	3.6	22
40	A structured kinetic model for recombinant protein production by Mut+ strain of <i>Pichia pastoris</i> . <i>Chemical Engineering Science</i> , 2009, 64, 5028-5035.	3.8	20
41	Effect of co-substrate sorbitol different feeding strategies on human growth hormone production by recombinant <i>Pichia pastoris</i> . <i>Journal of Chemical Technology and Biotechnology</i> , 2013, 88, 1631-1640.	3.2	20
42	Human growth hormone-specific aptamer identification using improved oligonucleotide ligand evolution method. <i>Protein Expression and Purification</i> , 2010, 69, 21-28.	1.3	19
43	Serine alkaline protease overproduction capacity of <i>Bacillus licheniformis</i> . <i>Enzyme and Microbial Technology</i> , 2000, 26, 45-60.	3.2	18
44	Engineered Dereglulation of Expression in Yeast with Designed Hybrid Promoter Architectures in Coordination with Discovered Master Regulator Transcription Factor. <i>Advanced Biology</i> , 2020, 4, e1900172.	3.0	18
45	Transcriptional regulatory proteins in central carbon metabolism of <i>Pichia pastoris</i> and <i>Saccharomyces cerevisiae</i> . <i>Applied Microbiology and Biotechnology</i> , 2020, 104, 7273-7311.	3.6	18
46	Growth and κ -carrageenan immobilization of <i>Pseudomonas dacunhae</i> cells for l-alanine production. <i>Enzyme and Microbial Technology</i> , 1999, 24, 67-74.	3.2	15
47	BIOREACTION NETWORK FLUX ANALYSIS FOR INDUSTRIAL MICROORGANISMS: A REVIEW. <i>Reviews in Chemical Engineering</i> , 2002, 18, .	4.4	15
48	Overexpression of a serine alkaline protease gene in <i>Bacillus licheniformis</i> and its impact on the metabolic reaction network. <i>Enzyme and Microbial Technology</i> , 2003, 32, 706-720.	3.2	15
49	Metabolic flux analyses for serine alkaline protease production. <i>Enzyme and Microbial Technology</i> , 2000, 27, 793-805.	3.2	14
50	Mass flux balance-based model and metabolic flux analysis for collagen synthesis in the fibrogenesis process of human liver. <i>Medical Hypotheses</i> , 2000, 55, 5-14.	1.5	14
51	Utilization of pretreated molasses for serine alkaline protease production with recombinant bacillus species. <i>Chemical Engineering Communications</i> , 2003, 190, 630-644.	2.6	14
52	Effects of pretreated beet molasses on benzaldehyde lyase production by recombinant <i>Escherichia coli</i> BL21(DE3)pLySs. <i>Journal of Applied Microbiology</i> , 2009, 107, 1536-1541.	3.1	14
53	Fermentation and oxygen transfer characteristics in recombinant human growth hormone production by <i>Pichia pastoris</i> in sorbitol batch and methanol fed-batch operation. <i>Journal of Chemical Technology and Biotechnology</i> , 2010, 85, 226-233.	3.2	14
54	Methanol feeding strategy design enhances recombinant human growth hormone production by <i>Pichia pastoris</i> . <i>Journal of Chemical Technology and Biotechnology</i> , 2016, 91, 664-671.	3.2	14

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55	Oxygen transfer as a tool for fine-tuning recombinant protein production by <i>Pichia pastoris</i> under glyceraldehyde-3-phosphate dehydrogenase promoter. <i>Bioprocess and Biosystems Engineering</i> , 2016, 39, 1061-1072.	3.4	13
56	Dynamic flux balance analysis for pharmaceutical protein production by <i>Pichia pastoris</i> : Human growth hormone. <i>Enzyme and Microbial Technology</i> , 2011, 48, 209-216.	3.2	12
57	Protein-based complex medium design for recombinant serine alkaline protease production. <i>Enzyme and Microbial Technology</i> , 2003, 33, 975-986.	3.2	11
58	Naturally occurring novel promoters around pyruvate branch-point for recombinant protein production in <i>Pichia pastoris</i> (<i>Komagataella phaffii</i>): Pyruvate decarboxylase- and pyruvate kinase-promoters. <i>Biochemical Engineering Journal</i> , 2018, 138, 111-120.	3.6	11
59	Hybrid-architected double-promoter expression systems enhance and upregulate-deregulated gene expressions in <i>Pichia pastoris</i> in methanol-free media. <i>Applied Microbiology and Biotechnology</i> , 2020, 104, 8381-8397.	3.6	11
60	Metabolic flux analysis for human therapeutic protein productions and hypothesis for new therapeutical strategies in medicine. <i>Biochemical Engineering Journal</i> , 2002, 11, 49-68.	3.6	10
61	Metabolic engineering of aromatic group amino acid pathway in <i>Bacillus subtilis</i> for L-phenylalanine production. <i>Chemical Engineering Science</i> , 2004, 59, 5019-5026.	3.8	10
62	Effects of pulse feeding of beet molasses on recombinant benzaldehyde lyase production by <i>Escherichia coli</i> BL21 (DE3). <i>Applied Microbiology and Biotechnology</i> , 2009, 85, 65-73.	3.6	9
63	Glucose isomerase production on a xylan-based medium by <i>Bacillus thermoantarcticus</i> . <i>Biochemical Engineering Journal</i> , 2009, 43, 8-15.	3.6	9
64	Beet molasses based exponential feeding strategy for thermostable glucose isomerase production by recombinant <i>Escherichia coli</i> BL21 (DE3). <i>Journal of Chemical Technology and Biotechnology</i> , 2013, 88, 845-852.	3.2	9
65	Co-substrate mannitol feeding strategy design in semi-batch production of recombinant human erythropoietin production by <i>Pichia pastoris</i> . <i>Journal of Chemical Technology and Biotechnology</i> , 2014, 89, 644-651.	3.2	9
66	Feeding strategy design for recombinant human growth hormone production by <i>Bacillus subtilis</i> . <i>Bioprocess and Biosystems Engineering</i> , 2015, 38, 1855-1865.	3.4	9
67	Hybrid fed-batch bioreactor operation design: control of substrate uptake enhances recombinant protein production in high-cell-density fermentations. <i>Journal of Chemical Technology and Biotechnology</i> , 2018, 93, 3326-3335.	3.2	9
68	Overexpression of serine alkaline protease encoding gene in <i>Bacillus</i> species: performance analyses. <i>Enzyme and Microbial Technology</i> , 2003, 33, 967-974.	3.2	8
69	Inorganic compounds have dual effect on recombinant protein production: influence of anions and cations on serine alkaline protease production. <i>Journal of Applied Microbiology</i> , 2004, 96, 194-200.	3.1	8
70	Phosphate enrichment and fed-batch operation for prolonged β -lactamase production by <i>Bacillus licheniformis</i> . <i>Journal of Applied Microbiology</i> , 2007, 102, 1418-1426.	3.1	8
71	Regulatory effects of oxygen transfer on overexpression of recombinant benzaldehyde lyase production by <i>Escherichia coli</i> BL21 (DE3). <i>Biotechnology Journal</i> , 2009, 4, 1066-1076.	3.5	8
72	Pretreatment Processes of Molasses for the Utilization in Fermentation Processes. , 2001, , 21-28.		7

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73	pH influences intracellular reaction network of $\hat{\Gamma}^2$ -lactamase producing <i>Bacillus licheniformis</i> . <i>Chemical Engineering Science</i> , 2007, 62, 5206-5211.	3.8	7
74	Recombinant protein production by sucrose-based feeding strategy development. <i>Journal of Chemical Technology and Biotechnology</i> , 2015, 90, 1070-1076.	3.2	7
75	Parametric continuous feed stream design to fine-tune fed-batch bioreactor performance: recombinant human growth hormone production in <i>Bacillus subtilis</i> . <i>Journal of Chemical Technology and Biotechnology</i> , 2016, 91, 2740-2750.	3.2	7
76	Enzyme-ion exchanger interactions in serine alkaline protease separation: theory, equilibria and kinetics. <i>Biochemical Engineering Journal</i> , 2002, 12, 193-204.	3.6	6
77	Development of enhanced ultrafiltration methodologies for the resolution of racemic benzoin. <i>Journal of Membrane Science</i> , 2008, 322, 446-452.	8.2	6
78	Hybrid-architected promoter design to engineer expression in yeast. <i>Methods in Enzymology</i> , 2021, 660, 81-104.	1.0	6
79	Regulatory effects of alanine-group amino acids on serine alkaline protease production by recombinant <i>Bacillus licheniformis</i> . <i>Biotechnology and Applied Biochemistry</i> , 2003, 37, 165.	3.1	5
80	Oxygen transfer effects in $\hat{\Gamma}^2$ -lactamase fermentation by <i>Bacillus licheniformis</i> in a glucose-based defined medium. <i>Journal of Chemical Technology and Biotechnology</i> , 2005, 80, 1062-1071.	3.2	4
81	Bioreaction network flux analysis for human protein producing <i>Bacillus subtilis</i> based on genome-scale model. <i>Chemical Engineering Science</i> , 2010, 65, 574-580.	3.8	4
82	Metabolic reaction network of <i>Pichia pastoris</i> with glycosylation reactions: Flux analysis for erythropoietin production. <i>Journal of Chemical Technology and Biotechnology</i> , 2014, 89, 1675-1685.	3.2	4
83	Hybrid-architected promoter design to deregulate expression in yeast. <i>Methods in Enzymology</i> , 2021, 660, 105-125.	1.0	4
84	Beet molasses-based feeding strategy enhances recombinant thermostable glucose isomerase production by <i>Escherichia coli</i> BL21 (DE3). <i>Biotechnology and Applied Biochemistry</i> , 2017, 64, 944-954.	3.1	3
85	Ethanol fed-batch bioreactor operation to enhance therapeutic protein production in <i>Pichia pastoris</i> under hybrid-architected ADH2 promoter. <i>Biochemical Engineering Journal</i> , 2020, 164, 107782.	3.6	3
86	Fermentation and oxygen transfer characteristics in serine alkaline protease production by recombinant <i>Bacillus subtilis</i> in molasses-based complex medium. <i>Journal of Chemical Technology and Biotechnology</i> , 2004, 79, 1243-1250.	3.2	2
87	Analyses of extracellular protein production in <i>Bacillus subtilis</i> II: Responses of reaction network to oxygen transfer at transcriptional level. <i>Biochemical Engineering Journal</i> , 2017, 127, 242-261.	3.6	2
88	Chiral separation of racemic benzoin via enzyme enhanced ultrafiltration. <i>Desalination</i> , 2006, 200, 464-465.	8.2	1
89	Isolation of High-Quality RNA from <i>Pichia pastoris</i> . <i>Current Protocols in Protein Science</i> , 2019, 98, e101.	2.8	1
90	Metabolic flux analysis for serine alkaline protease fermentation by <i>Bacillus licheniformis</i> in a defined medium: Effects of the oxygen transfer rate. <i>Biotechnology and Bioengineering</i> , 1999, 64, 151-167.	3.3	1

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91	Effects of exponential feeding strategy on benzaldehyde lyase production by recombinant Escherichia coli. Journal of Biotechnology, 2010, 150, 86-86.	3.8	0
92	Strategy development for therapeutic protein production by Pichia pastoris: human growth hormone. New Biotechnology, 2012, 29, S106-S107.	4.4	0
93	Protease Secretion Capacity and Performance Analysis of Recombinant Bacillus Species. , 2001, , 383-392.		0
94	Metabolic Network Analysis for Human Therapeutic Protein Productions: Effects of the P/O Ratio. , 2001, , 277-288.		0
95	Crossflow Ultrafiltration of Bacillus Licheniformis Fermentation Medium to Separate Protease Enzymes. , 2001, , 171-179.		0