Zhe Deng

List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/2726600/publications.pdf Version: 2024-02-01



#	Article	lF	CITATIONS
1	Ultrasound assisted in situ separation of sophorolipids in multiâ€phase fermentation system to achieve efficient production by <i>Candida bombicola</i> . Biotechnology Journal, 2022, 17, e2100478.	1.8	3
2	Advances in sustainable approaches utilizing orange peel waste to produce highly value-added bioproducts. Critical Reviews in Biotechnology, 2022, 42, 1284-1303.	5.1	22
3	Multiscale engineering of microbial cell factories: A step forward towards sustainable natural products industry. Synthetic and Systems Biotechnology, 2022, 7, 586-601.	1.8	9
4	Development of a novel feeding regime for large scale production of human umbilical cord mesenchymal stem/stromal cells. Cytotechnology, 2022, 74, 351-369.	0.7	5
5	Urchin-like magnetic microspheres for cancer therapy through synergistic effect of mechanical force, photothermal and photodynamic effects. Journal of Nanobiotechnology, 2022, 20, 224.	4.2	10
6	Engineered Bacteria-Based Living Materials for Biotherapeutic Applications. Frontiers in Bioengineering and Biotechnology, 2022, 10, 870675.	2.0	12
7	Role of a Two-Component Signal Transduction System RspA1/A2 in Regulating the Biosynthesis of Salinomycin in Streptomyces albus. Applied Biochemistry and Biotechnology, 2021, 193, 1296-1310.	1.4	6
8	Metabolic engineering coupled with adaptive evolution strategies for the efficient production of high-quality L-lactic acid by Lactobacillus paracasei. Bioresource Technology, 2021, 323, 124549.	4.8	36
9	Dynamic response of Aspergillus niger to periodical glucose pulse stimuli in chemostat cultures. Biotechnology and Bioengineering, 2021, 118, 2265-2282.	1.7	7
10	Integration of enzyme constraints in a genome-scale metabolic model of Aspergillus niger improves phenotype predictions. Microbial Cell Factories, 2021, 20, 125.	1.9	17
11	Development of a novel noninvasive quantitative method to monitor <i>Siraitia grosvenorii</i> cell growth and browning degree using an integrated computerâ€aided vision technology and machine learning. Biotechnology and Bioengineering, 2021, 118, 4092-4104.	1.7	6
12	A new strategy for dynamic metabolic flux estimation by integrating transient metabolome data into genome-scale metabolic models. Bioprocess and Biosystems Engineering, 2021, 44, 2553-2565.	1.7	1
13	Metabolic Engineering of Gas-Fermenting <i>Clostridium ljungdahlii</i> for Efficient Co-production of Isopropanol, 3-Hydroxybutyrate, and Ethanol. ACS Synthetic Biology, 2021, 10, 2628-2638.	1.9	28
14	Advances in engineered Bacillus subtilis biofilms and spores, and their applications in bioremediation, biocatalysis, and biomaterials. Synthetic and Systems Biotechnology, 2021, 6, 180-191.	1.8	33
15	Impact of Altered Trehalose Metabolism on Physiological Response of Penicillium chrysogenum Chemostat Cultures during Industrially Relevant Rapid Feast/Famine Conditions. Processes, 2021, 9, 118.	1.3	5
16	Sandwich-Type Near-Infrared Conjugated Polymer Nanoparticles for Revealing the Fate of Transplanted Human Umbilical Cord Mesenchymal Stem Cells. ACS Applied Materials & Interfaces, 2021, 13, 3512-3520.	4.0	5
17	Evaluation of a Virus-like Nanoparticle Porcine Circovirus Type-2 (PCV2) Capsid Protein Fused with the Pig Immunoglobulin Fc Fragment as a Novel Vaccine Candidate against PCV2 in Mice. Vaccines, 2021, 9, 1128.	2.1	2
18	Kinetically modelled approach of xanthan production using different carbon sources: A study on molecular weight and rheological properties of xanthan. International Journal of Biological Macromolecules, 2021, 193, 1226-1236.	3.6	9

Zhe Deng

#	Article	IF	CITATIONS
19	Two-component system AfrQ1Q2 involved in oxytetracycline biosynthesis of Streptomyces rimosus M4018 in a medium-dependent manner. Journal of Bioscience and Bioengineering, 2020, 129, 140-145.	1.1	5
20	Coupling metabolomics analysis and DOE optimization strategy towards enhanced IBDV production by chicken embryo fibroblast DF-1 cells. Journal of Biotechnology, 2020, 307, 114-124.	1.9	6
21	On stability analysis of cascaded linear time varying systems in dynamic isotope experiments. AICHE Journal, 2020, 66, e16911.	1.8	0
22	Coupled metabolicâ€hydrodynamic modeling enabling rational scaleâ€up of industrial bioprocesses. Biotechnology and Bioengineering, 2020, 117, 844-867.	1.7	14
23	Harnessing microbial metabolomics for industrial applications. World Journal of Microbiology and Biotechnology, 2020, 36, 1.	1.7	112
24	Oxygen Uptake Rate Controlling Strategy Balanced with Oxygen Supply for Improving Coenzyme Q10 Production by Rhodobacter sphaeroides. Biotechnology and Bioprocess Engineering, 2020, 25, 459-469.	1.4	3
25	Two-Component-System RspA1/A2-Dependent Regulation on Primary Metabolism in Streptomyces albus A30 Cultivated With Glutamate as the Sole Nitrogen Source. Frontiers in Microbiology, 2020, 11, 1658.	1.5	3
26	Target-site directed rational high-throughput screening system for high sophorolipids production by Candida bombicola. Bioresource Technology, 2020, 315, 123856.	4.8	11
27	Xanthan-Curdlan nexus for synthesizing edible food packaging films. International Journal of Biological Macromolecules, 2020, 162, 43-49.	3.6	42
28	Developing a Computational Framework To Advance Bioprocess Scale-Up. Trends in Biotechnology, 2020, 38, 846-856.	4.9	56
29	Mapping molecular pathways for embryonic Sertoli cells derivation based on differentiation model of mouse embryonic stem cells. Stem Cell Research and Therapy, 2020, 11, 85.	2.4	2
30	Improving cytosolic aspartate biosynthesis increases glucoamylase production in Aspergillus niger under oxygen limitation. Microbial Cell Factories, 2020, 19, 81.	1.9	8
31	Inducing Non-genetically Modified Induced Embryonic Sertoli Cells Derived From Embryonic Stem Cells With Recombinant Protein Factors. Frontiers in Cell and Developmental Biology, 2020, 8, 533543.	1.8	3
32	Enhanced Biosynthesis of Chlorogenic Acid and Its Derivatives in Methyl-Jasmonate-Treated Gardenia jasminoides Cells: A Study on Metabolic and Transcriptional Responses of Cells. Frontiers in Bioengineering and Biotechnology, 2020, 8, 604957.	2.0	8
33	Combinatorial Effect of ARTP Mutagenesis and Ribosome Engineering on an Industrial Strain of Streptomyces albus S12 for Enhanced Biosynthesis of Salinomycin. Frontiers in Bioengineering and Biotechnology, 2019, 7, 212.	2.0	24
34	Combined available nitrogen resources enhanced erythromycin production and preliminary exploration of metabolic flux analysis under nitrogen perturbations. Bioprocess and Biosystems Engineering, 2019, 42, 1747-1756.	1.7	6
35	A study on enhanced O-glycosylation strategy for improved production of recombinant human chorionic gonadotropin in Chinese hamster ovary cells. Journal of Biotechnology, 2019, 306, 159-168.	1.9	3
36	Medium optimization based on comparative metabolomic analysis of chicken embryo fibroblast DF-1 cells. RSC Advances, 2019, 9, 27369-27377.	1.7	4

Zhe Deng

#	Article	IF	CITATIONS
37	Comparative Fluxome and Metabolome Analysis of Formate as an Auxiliary Substrate for Penicillin Production in Glucoseâ€Limited Cultivation of Penicillium chrysogenum. Biotechnology Journal, 2019, 14, 1900009.	1.8	5
38	Novel Piperazino-Enaminones Decrease Pro-inflammatory Cytokines Following Hemarthrosis in a Hemophilia Mouse Model. Inflammation, 2019, 42, 1719-1729.	1.7	2
39	Dynamic changes of metabolomics and expression of candicidin biosynthesis gene cluster caused by the presence of a pleiotropic regulator AdpA in Streptomyces ZYJ-6. Bioprocess and Biosystems Engineering, 2019, 42, 1353-1365.	1.7	13
40	A dynamic model-based preparation of uniformly-13C-labeled internal standards facilitates quantitative metabolomics analysis of Penicillium chrysogenum. Journal of Biotechnology, 2019, 299, 21-31.	1.9	14
41	Biochemical engineering in China. Reviews in Chemical Engineering, 2019, 35, 929-993.	2.3	1
42	Differentiation roadmap of embryonic Sertoli cells derived from mouse embryonic stem cells. Stem Cell Research and Therapy, 2019, 10, 81.	2.4	10
43	Efficient generation of male germ-like cells derived during co-culturing of adipose-derived mesenchymal stem cells with Sertoli cells under retinoic acid and testosterone induction. Stem Cell Research and Therapy, 2019, 10, 91.	2.4	20
44	Sustainable biosynthesis of curdlan from orange waste by using Alcaligenes faecalis: A systematically modeled approach. Carbohydrate Polymers, 2019, 205, 626-635.	5.1	35
45	Optimized biosynthesis of xanthan via effective valorization of orange peels using response surface methodology: A kinetic model approach. Carbohydrate Polymers, 2018, 181, 793-800.	5.1	58
46	Comparative performance of different scaleâ€down simulators of substrate gradients in <i>Penicillium chrysogenum</i> cultures: the need of a biological systems response analysis. Microbial Biotechnology, 2018, 11, 486-497.	2.0	27
47	Kinetic analysis of curdlan production by Alcaligenes faecalis with maltose, sucrose, glucose and fructose as carbon sources. Bioresource Technology, 2018, 259, 319-324.	4.8	34
48	Power input effects on degeneration in prolonged penicillin chemostat cultures: A systems analysis at flux, residual glucose, metabolite, and transcript levels. Biotechnology and Bioengineering, 2018, 115, 114-125.	1.7	17
49	Gas-liquid mass transfer studies: The influence of single- and double-impeller configurations in stirred tanks. Korean Journal of Chemical Engineering, 2018, 35, 61-72.	1.2	6
50	Multi-omics integrative analysis with genome-scale metabolic model simulation reveals global cellular adaptation of Aspergillus niger under industrial enzyme production condition. Scientific Reports, 2018, 8, 14404.	1.6	36
51	Exploring cellular fatty acid composition and intracellular metabolites of osmotic-tolerant mutant Lactobacillus paracasei NCBIO-M2 for highly efficient lactic acid production with high initial glucose concentration. Journal of Biotechnology, 2018, 286, 27-35.	1.9	19
52	Co-culture with TM4 cells enhances the proliferation and migration of rat adipose-derived mesenchymal stem cells with high stemness. Cytotechnology, 2018, 70, 1409-1422.	0.7	8
53	Enhancing candicidin biosynthesis by medium optimization and pH stepwise control strategy with process metabolomics analysis of Streptomyces ZYJ-6. Bioprocess and Biosystems Engineering, 2018, 41, 1743-1755.	1.7	9
54	Kinetic analysis of sodium gluconate production by Aspergillus niger with different inlet oxygen concentrations. Bioprocess and Biosystems Engineering, 2018, 41, 1697-1706.	1.7	16

ZHE DENG

#	Article	IF	CITATIONS
55	Development of a method for efficient cost-effective screening of Aspergillus niger mutants having increased production of glucoamylase. Biotechnology Letters, 2017, 39, 739-744.	1.1	11
56	Chaperone–substrate interactions monitored via a robust TEM-1 β-lactamase fragment complementation assay. Biotechnology Letters, 2017, 39, 1191-1199.	1.1	4
57	Enhanced alcohol titre and ratio in carbon monoxide-rich off-gas fermentation of Clostridium carboxidivorans through combination of trace metals optimization with variable-temperature cultivation. Bioresource Technology, 2017, 239, 236-243.	4.8	49
58	Mutation breeding of high avermectin B1a-producing strain by the combination of high energy carbon heavy ion irradiation and sodium nitrite mutagenesis based on high throughput screening. Biotechnology and Bioprocess Engineering, 2017, 22, 539-548.	1.4	13
59	Comprehensive reconstruction and evaluation of Pichia pastoris genome-scale metabolic model that accounts for 1243 ORFs. Bioresources and Bioprocessing, 2017, 4, 22.	2.0	24
60	Blocking the flow of propionate into TCA cycle through a mutB knockout leads to a significant increase of erythromycin production by an industrial strain of Saccharopolyspora erythraea. Bioprocess and Biosystems Engineering, 2017, 40, 201-209.	1.7	11
61	Comprehensive reconstruction and in silico analysis of <i>Aspergillus niger</i> genomeâ€scale metabolic network model that accounts for 1210 ORFs. Biotechnology and Bioengineering, 2017, 114, 685-695.	1.7	33
62	Enhanced protein production by sorbitol co-feeding with methanol in recombinant Pichia pastoris strains. Biotechnology and Bioprocess Engineering, 2017, 22, 767-773.	1.4	14
63	CFD Simulation of Average and Local Gas–Liquid Flow Properties in Stirred Tank Reactors with Multiple Rushton Impellers. Journal of Chemical Engineering of Japan, 2017, 50, 878-891.	0.3	8
64	Mixomics analysis of Bacillus subtilis: effect of oxygen availability on riboflavin production. Microbial Cell Factories, 2017, 16, 150.	1.9	22
65	Improvement of Lâ€lactic acid production with a twoâ€step <scp>OUR</scp> control strategy. Journal of Chemical Technology and Biotechnology, 2016, 91, 2496-2502.	1.6	5
66	Stable over-expression of the human malate–aspartate NADH shuttle member Aralar I in PK15 cells improves energy metabolism and enhances proliferation of porcine circovirus-2. RSC Advances, 2016, 6, 61268-61277.	1.7	3
67	Salt stress induced lipid accumulation in heterotrophic culture cells of Chlorella protothecoides : Mechanisms based on the multi-level analysis of oxidative response, key enzyme activity and biochemical alteration. Journal of Biotechnology, 2016, 228, 18-27.	1.9	78
68	High efficiency cell-recycle continuous sodium gluconate production by Aspergillus niger using on-line physiological parameters association analysis to regulate feed rate rationally. Bioresource Technology, 2016, 220, 433-441.	4.8	14
69	High-throughput system for screening of high l-lactic acid-productivity strains in deep-well microtiter plates. Bioprocess and Biosystems Engineering, 2016, 39, 1737-1747.	1.7	24
70	Combined 13C-assisted metabolomics and metabolic flux analysis reveals the impacts of glutamate on the central metabolism of high β-galactosidase-producing Pichia pastoris. Bioresources and Bioprocessing, 2016, 3, 47.	2.0	11
71	Controlling the feed rate of propanol to optimize erythromycin fermentation by on-line capacitance and oxygen uptake rate measurement. Bioprocess and Biosystems Engineering, 2016, 39, 255-265.	1.7	8
72	Impacts of proline on the central metabolism of an industrial erythromycin-producing strain Saccharopolyspora erythraea via 13 C labeling experiments. Journal of Biotechnology, 2016, 231, 1-8.	1.9	15

ZHE DENG

#	Article	IF	CITATIONS
73	Enhanced l-lactic acid production in Lactobacillus paracasei by exogenous proline addition based on comparative metabolite profiling analysis. Applied Microbiology and Biotechnology, 2016, 100, 2301-2310.	1.7	15
74	A rapid and accurate quantification method for real-time dynamic analysis of cellular lipids during microalgal fermentation processes in Chlorella protothecoides with low field nuclear magnetic resonance. Journal of Microbiological Methods, 2016, 124, 13-20.	0.7	22
75	A scale-down cross-flow filtration technology for biopharmaceuticals and the associated theory. Journal of Biotechnology, 2016, 221, 25-31.	1.9	4
76	A simple novel approach for real-time monitoring of sodium gluconate production by on-line physiological parameters in batch fermentation by Aspergillus niger. Bioresource Technology, 2016, 202, 133-141.	4.8	15
77	Integrated isotope-assisted metabolomics and 13C metabolic flux analysis reveals metabolic flux redistribution for high glucoamylase production by Aspergillus niger. Microbial Cell Factories, 2015, 14, 147.	1.9	34
78	Limitations in the process of transcription and translation inhibit recombinant human chorionic gonadotropin expression in CHO cells. Journal of Biotechnology, 2015, 204, 63-69.	1.9	7
79	Advances and Practices of Bioprocess Scale-up. Advances in Biochemical Engineering/Biotechnology, 2015, 152, 137-151.	0.6	17
80	Enhancing gluconic acid production by controlling the morphology of Aspergillus niger in submerged fermentation. Process Biochemistry, 2015, 50, 1342-1348.	1.8	43
81	Interactions of Î ³ -aminobutyric acid and whey proteins/caseins during fortified milk production. RSC Advances, 2015, 5, 91235-91245.	1.7	10
82	Optimization and validation of an extraction method and HPAEC-PAD for determination of residual sugar composition in <scp>l</scp> -lactic acid industrial fermentation broth with a high salt content. Analytical Methods, 2015, 7, 9076-9083.	1.3	4
83	A qualitative and quantitative high-throughput assay for screening of gluconate high-yield strains by Aspergillus niger. Journal of Microbiological Methods, 2015, 109, 134-139.	0.7	25
84	An alkaline pH control strategy for methionine adenosyltransferase production in Pichia pastoris fermentation. Biotechnology and Bioprocess Engineering, 2014, 19, 900-907.	1.4	5
85	Impacts of high β-galactosidase expression on central metabolism of recombinant Pichia pastoris GS115 using glucose as sole carbon source via 13C metabolic flux analysis. Journal of Biotechnology, 2014, 187, 124-134.	1.9	29
86	Comparative performance of S-adenosyl-l-methionine biosynthesis and degradation in Pichia pastoris using different promoters and novel consumption inhibitors. Enzyme and Microbial Technology, 2014, 55, 94-99.	1.6	10
87	Ex vivo expansion of bone marrow mesenchymal stem cells using microcarrier beads in a stirred bioreactor. Biotechnology and Bioprocess Engineering, 2013, 18, 173-184.	1.4	16
88	Optimization of Enzymatic Hydrolysis of Channel Catfish Bones for Preparing Antimicrobial Agents. Journal of Aquatic Food Product Technology, 2012, 21, 99-110.	0.6	17
89	High-throughput screening strategy used for enhanced production of pigment by Monascus purpureus D39-4. Food Science and Biotechnology, 2012, 21, 1603-1610.	1.2	7
90	Industrial bioprocess control and optimization in the context of systems biotechnology. Biotechnology Advances, 2009, 27, 989-995.	6.0	43

ZHE DENG

#	Article	IF	CITATIONS
91	High-expression of recombinant human concensus interferon-α by Pichia pastoris. Frontiers of Chemical Engineering in China, 2007, 1, 399-403.	0.6	1
92	High cell density and high expression of recombinant human ApoA-IMilano in Escherichia coli by twice temperature-shifted induction. Frontiers of Biology in China: Selected Publications From Chinese Universities, 2006, 1, 345-348.	0.2	1
93	From multi-scale methodology to systems biology: to integrate strain improvement and fermentation optimization. Journal of Chemical Technology and Biotechnology, 2006, 81, 734-745.	1.6	28