

Yuan Lu

List of Publications by Year in descending order

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Version: 2024-02-01

91
papers

2,395
citations

218592

26
h-index

233338

45
g-index

96
all docs

96
docs citations

96
times ranked

2730
citing authors

#	ARTICLE	IF	CITATIONS
1	States and challenges for high-value biohythane production from waste biomass by dark fermentation technology. <i>Bioresource Technology</i> , 2013, 135, 292-303.	4.8	186
2	Production and stabilization of the trimeric influenza hemagglutinin stem domain for potentially broadly protective influenza vaccines. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 125-130.	3.3	184
3	Cell-free synthetic biology: Engineering in an open world. <i>Synthetic and Systems Biotechnology</i> , 2017, 2, 23-27.	1.8	136
4	Assessing sequence plasticity of a virus-like nanoparticle by evolution toward a versatile scaffold for vaccines and drug delivery. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 12360-12365.	3.3	117
5	Characteristics of hydrogen and methane production from cornstalks by an augmented two- or three-stage anaerobic fermentation process. <i>Bioresource Technology</i> , 2009, 100, 2889-2895.	4.8	94
6	Characteristics of hydrogen production of an <i>Enterobacter aerogenes</i> mutant generated by a new atmospheric and room temperature plasma (ARTP). <i>Biochemical Engineering Journal</i> , 2011, 55, 17-22.	1.8	80
7	Production of violet pigment by a newly isolated psychrotrophic bacterium from a glacier in Xinjiang, China. <i>Biochemical Engineering Journal</i> , 2009, 43, 135-141.	1.8	76
8	Compartmentalizing Cell-Free Systems: Toward Creating Life-Like Artificial Cells and Beyond. <i>ACS Synthetic Biology</i> , 2020, 9, 2881-2901.	1.9	71
9	Cloning and knockout of formate hydrogen lyase and H ₂ -uptake hydrogenase genes in <i>Enterobacter aerogenes</i> for enhanced hydrogen production. <i>International Journal of Hydrogen Energy</i> , 2009, 34, 186-194.	3.8	69
10	Bioprocess engineering for biohythane production from low-grade waste biomass: technical challenges towards scale up. <i>Current Opinion in Biotechnology</i> , 2018, 50, 25-31.	3.3	62
11	Optimization of culture conditions for violacein production by a new strain of <i>Duganella</i> sp. B2. <i>Biochemical Engineering Journal</i> , 2009, 44, 119-124.	1.8	61
12	Virus-like Particle Engineering: From Rational Design to Versatile Applications. <i>Biotechnology Journal</i> , 2018, 13, e1700324.	1.8	58
13	Advances in Cell-Free Biosensors: Principle, Mechanism, and Applications. <i>Biotechnology Journal</i> , 2020, 15, e2000187.	1.8	56
14	Advances and Challenges in Cell-Free Incorporation of Unnatural Amino Acids Into Proteins. <i>Frontiers in Pharmacology</i> , 2019, 10, 611.	1.6	52
15	Chemical constituents, biological functions and pharmacological effects for comprehensive utilization of <i>Eucommia ulmoides</i> Oliver. <i>Food Science and Human Wellness</i> , 2019, 8, 177-188.	2.2	50
16	<i>Escherichia coli</i> -based cell free production of flagellin and ordered flagellin display on virus-like particles. <i>Biotechnology and Bioengineering</i> , 2013, 110, 2073-2085.	1.7	49
17	Non-anticoagulant effects of low molecular weight heparins in inflammatory disorders: A review. <i>Carbohydrate Polymers</i> , 2017, 160, 71-81.	5.1	44
18	O ₂ sensitivity and H ₂ production activity of hydrogenases—A review. <i>Biotechnology and Bioengineering</i> , 2019, 116, 3124-3135.	1.7	43

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19	Enhanced biohydrogen production from corn stover by the combination of <i>Clostridium cellulolyticum</i> and hydrogen fermentation bacteria. <i>Journal of Bioscience and Bioengineering</i> , 2016, 122, 482-487.	1.1	41
20	Functional properties of flagellin as a stimulator of innate immunity. <i>Scientific Reports</i> , 2016, 6, 18379.	1.6	40
21	Perturbation of formate pathway for hydrogen production by expressions of formate hydrogen lyase and its transcriptional activator in wild <i>Enterobacter aerogenes</i> and its mutants. <i>International Journal of Hydrogen Energy</i> , 2009, 34, 5072-5079.	3.8	37
22	Alteration of hydrogen metabolism of <i>ldh</i> -deleted <i>Enterobacter aerogenes</i> by overexpression of NAD(+)-dependent formate dehydrogenase. <i>Applied Microbiology and Biotechnology</i> , 2010, 86, 255-262.	1.7	33
23	<i>Phytophthora infestans</i> effector <i>SfI</i> 3 targets potato <i>UBK</i> to suppress early immune transcriptional responses. <i>New Phytologist</i> , 2019, 222, 438-454.	3.5	33
24	Effects of bioactive components of Pu-erh tea on gut microbiomes and health: A review. <i>Food Chemistry</i> , 2021, 353, 129439.	4.2	33
25	Impairment of NADH dehydrogenase and regulation of anaerobic metabolism by the small RNA <i>RyhB</i> and <i>NadE</i> for improved biohydrogen production in <i>Enterobacter aerogenes</i> . <i>Biotechnology for Biofuels</i> , 2017, 10, 248.	6.2	31
26	Untethered Microrobots for Active Drug Delivery: From Rational Design to Clinical Settings. <i>Advanced Healthcare Materials</i> , 2022, 11, e2102253.	3.9	30
27	Cell-free production of trimeric influenza hemagglutinin head domain proteins as vaccine antigens. <i>Biotechnology and Bioengineering</i> , 2012, 109, 2962-2969.	1.7	29
28	Studies on the Physical Characteristics of the Radio-Frequency Atmospheric-Pressure Glow Discharge Plasmas for the Genome Mutation of <i>Methylosinus trichosporium</i> . <i>IEEE Transactions on Plasma Science</i> , 2012, 40, 2853-2860.	0.6	25
29	Perturbation of formate pathway and NADH pathway acting on the biohydrogen production. <i>Scientific Reports</i> , 2017, 7, 9587.	1.6	24
30	Circular RNA: Biosynthesis in vitro. <i>Frontiers in Bioengineering and Biotechnology</i> , 2021, 9, 787881.	2.0	23
31	Efficient Incorporation of Unnatural Amino Acids into Proteins with a Robust Cell-Free System. <i>Methods and Protocols</i> , 2019, 2, 16.	0.9	22
32	Nutritional and medicinal characteristics of Chinese giant salamander (<i>Andrias davidianus</i>) for applications in healthcare industry by artificial cultivation: A review. <i>Food Science and Human Wellness</i> , 2018, 7, 1-10.	2.2	21
33	Hydrologic Evaluation of TRMM Multisatellite Precipitation Analysis for Nanliu River Basin in Humid Southwestern China. <i>Scientific Reports</i> , 2017, 7, 2470.	1.6	20
34	Disruption of lactate dehydrogenase and alcohol dehydrogenase for increased hydrogen production and its effect on metabolic flux in <i>Enterobacter aerogenes</i> . <i>Bioresource Technology</i> , 2015, 194, 99-107.	4.8	19
35	Detection of inorganic ions and organic molecules with cell-free biosensing systems. <i>Journal of Biotechnology</i> , 2019, 300, 78-86.	1.9	19
36	Bringing Light into Cell-Free Expression. <i>ACS Synthetic Biology</i> , 2020, 9, 2144-2153.	1.9	19

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37	Expression of NAD ⁺ -dependent formate dehydrogenase in <i>Enterobacter aerogenes</i> and its involvement in anaerobic metabolism and H ₂ production. <i>Biotechnology Letters</i> , 2009, 31, 1525-1530.	1.1	18
38	Improved hydrogen production under microaerophilic conditions by overexpression of polyphosphate kinase in <i>Enterobacter aerogenes</i> . <i>Enzyme and Microbial Technology</i> , 2011, 48, 187-192.	1.6	18
39	Insights into the global regulation of anaerobic metabolism for improved biohydrogen production. <i>Bioresource Technology</i> , 2016, 200, 35-41.	4.8	16
40	Development and comparison of cell-free protein synthesis systems derived from typical bacterial chassis. <i>Bioresources and Bioprocessing</i> , 2021, 8, 58.	2.0	16
41	Strategy exploration for developing robust lyophilized cell-free systems. <i>Biotechnology Notes</i> , 2021, 2, 44-50.	0.7	15
42	A heparin derivatives library constructed by chemical modification and enzymatic depolymerization for exploitation of non-anticoagulant functions. <i>Carbohydrate Polymers</i> , 2020, 249, 116824.	5.1	14
43	Development of a robust <i>Escherichia coli</i> -based cell-free protein synthesis application platform. <i>Biochemical Engineering Journal</i> , 2021, 165, 107830.	1.8	14
44	3D Magnetic Field-Controlled Synthesis, Collective Motion, and Bioreaction Enhancement of Multifunctional Peasecod-like Nanochains. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 36157-36170.	4.0	14
45	Modularize and Unite: Toward Creating a Functional Artificial Cell. <i>Frontiers in Molecular Biosciences</i> , 2021, 8, 781986.	1.6	14
46	High-Throughput and Controllable Fabrication of Helical Microfibers by Hydrodynamically Focusing Flow. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 59392-59399.	4.0	13
47	Impairment of NADH dehydrogenase for increased hydrogen production and its effect on metabolic flux redistribution in wild strain and mutants of <i>Enterobacter aerogenes</i> . <i>International Journal of Hydrogen Energy</i> , 2012, 37, 15875-15885.	3.8	12
48	Alteration of anaerobic metabolism in <i>Escherichia coli</i> for enhanced hydrogen production by heterologous expression of hydrogenase genes originating from <i>Synechocystis</i> sp. <i>Biochemical Engineering Journal</i> , 2012, 60, 81-86.	1.8	12
49	Flexible on-demand cell-free protein synthesis platform based on a tube-in-tube reactor. <i>Reaction Chemistry and Engineering</i> , 2020, 5, 270-277.	1.9	12
50	Magnetic-controlled dandelion-like nanocatalytic swarm for targeted biofilm elimination. <i>Nanoscale</i> , 2022, 14, 6497-6506.	2.8	12
51	Effects of Enzymatically Depolymerized Low Molecular Weight Heparins on CCl ₄ -Induced Liver Fibrosis. <i>Frontiers in Pharmacology</i> , 2017, 8, 514.	1.6	11
52	Use of the Normalized Difference Road Landside Index (NDRLI)-based method for the quick delineation of road-induced landslides. <i>Scientific Reports</i> , 2018, 8, 17815.	1.6	11
53	Cell-free biology using remote-controlled digital microfluidics for individual droplet control. <i>RSC Advances</i> , 2020, 10, 26972-26981.	1.7	11
54	O ₂ -Tuned Protein Synthesis Machinery in <i>Escherichia coli</i> -Based Cell-Free System. <i>Frontiers in Bioengineering and Biotechnology</i> , 2020, 8, 312.	2.0	11

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55	Improvement of Hydrogen Productivity by Introduction of NADH Regeneration Pathway in <i>Clostridium paraputrificum</i> . <i>Applied Biochemistry and Biotechnology</i> , 2012, 167, 732-742.	1.4	10
56	A Sustainable and Efficient Artificial Microgel System: Toward Creating a Configurable Synthetic Cell. <i>Small</i> , 2020, 16, 2002313.	5.2	10
57	Soft Magnetic Microrobot Doped with Porous Silica for Stability-Enhanced Multimodal Locomotion in a Nonideal Environment. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 10856-10874.	4.0	10
58	Advances, Challenges and Future Trends of Cell-Free Transcription-Translation Biosensors. <i>Biosensors</i> , 2022, 12, 318.	2.3	10
59	Physical stimuli-responsive cell-free protein synthesis. <i>Synthetic and Systems Biotechnology</i> , 2020, 5, 363-368.	1.8	9
60	Mapping determinants of rural poverty in Guangxi – a less developed region of China. <i>Journal of Mountain Science</i> , 2020, 17, 1749-1762.	0.8	8
61	Portable environment-signal detection biosensors with cell-free synthetic biosystems. <i>RSC Advances</i> , 2020, 10, 39261-39265.	1.7	8
62	Evaluation and Hydrological Validation of GPM Precipitation Products over the Nanliu River Basin, Beibu Gulf. <i>Water (Switzerland)</i> , 2018, 10, 1777.	1.2	7
63	Textile-embedded cell-free biosensors. <i>Nature Biomedical Engineering</i> , 2022, 6, 225-226.	11.6	7
64	Discovery of enzymatically depolymerized heparins capable of treating Bleomycin-induced pulmonary injury and fibrosis in mice. <i>Carbohydrate Polymers</i> , 2017, 174, 82-88.	5.1	6
65	In silico Design of Linear DNA for Robust Cell-Free Gene Expression. <i>Frontiers in Bioengineering and Biotechnology</i> , 2021, 9, 670341.	2.0	6
66	Alteration of energy metabolism in <i>Enterobacter aerogenes</i> by external addition of pyrophosphates and overexpression of polyphosphate kinase for enhanced hydrogen production. <i>Journal of Chemical Technology and Biotechnology</i> , 2012, 87, 996-1003.	1.6	5
67	Design of Fusion Proteins for Efficient and Soluble Production of Immunogenic Ebola Virus Glycoprotein in <i>Escherichia coli</i> . <i>Biotechnology Journal</i> , 2018, 13, 1700627.	1.8	5
68	Creating a locally crowded environment with nanoclay hydrogels for cell-free biosynthesis. <i>Soft Matter</i> , 2020, 16, 5132-5138.	1.2	5
69	Honeycomb-like active microswarms for magnetically tunable cascade enzyme catalysis. <i>Nanoscale</i> , 2022, 14, 6535-6542.	2.8	5
70	Programmable protein topology via SpyCatcher-SpyTag chemistry in one-pot cell-free expression system. <i>Protein Science</i> , 2022, 31, .	3.1	5
71	Exploration of the Tolerance Ability of a Cell-Free Biosynthesis System to Toxic Substances. <i>Applied Biochemistry and Biotechnology</i> , 2019, 189, 1096-1107.	1.4	4
72	Cell-free synthetic biology in the new era of enzyme engineering. <i>Chinese Journal of Chemical Engineering</i> , 2020, 28, 2810-2816.	1.7	4

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73	Exploration on the expression and assembly of virus-like particles. <i>Biotechnology Notes</i> , 2021, 2, 51-58.	0.7	4
74	A linear DNA template-based framework for site-specific unnatural amino acid incorporation. <i>Synthetic and Systems Biotechnology</i> , 2021, 6, 192-199.	1.8	4
75	A Temperature-Controlled Cell-Free Expression System by Dynamic Repressor. <i>ACS Synthetic Biology</i> , 2022, 11, 1408-1416.	1.9	4
76	Engineering Pollen-Derived Microstructures to Reveal Material Morpho-Performance Paradigm. <i>Small</i> , 2022, 18, e2200037.	5.2	4
77	A robust <i>Escherichia coli</i> cell-free expression toolbox driven by sigma factors. <i>Biochemical Engineering Journal</i> , 2021, 171, 108031.	1.8	3
78	Editorial: Cell-Free Synthetic Biology. <i>Frontiers in Bioengineering and Biotechnology</i> , 2021, 9, 799122.	2.0	3
79	Toward efficient multiple-site incorporation of unnatural amino acids using cell-free translation system. <i>Synthetic and Systems Biotechnology</i> , 2022, 7, 522-532.	1.8	3
80	Supramolecular protein assembly in cell-free protein synthesis system. <i>Bioresources and Bioprocessing</i> , 2022, 9, .	2.0	3
81	Advances in Cell-Free Biosynthetic Technology. , 2019, , 23-45.		2
82	CO ₂ -elevated cell-free protein synthesis. <i>Synthetic and Systems Biotechnology</i> , 2022, 7, 911-917.	1.8	2
83	Cell-Free Synthetic Biology. <i>SpringerBriefs in Applied Sciences and Technology</i> , 2020, , .	0.2	1
84	Impact of Metal-Organic Frameworks on Protein Expression. <i>Chemical Research in Toxicology</i> , 2021, 34, 1403-1408.	1.7	1
85	Cloning and knockout of formate hydrogenlyase and H ₂ -uptake hydrogenase genes in <i>Enterobacter aerogenes</i> for enhanced hydrogen production. <i>Journal of Biotechnology</i> , 2008, 136, S264.	1.9	0
86	pH-Driven Precise Control of Hybridization Reaction Kinetics for Rapid DNA Assay. <i>ChemistrySelect</i> , 2018, 3, 10646-10650.	0.7	0
87	Bifunctional Therapy by Zinc-Cobalt Bimetal-Organic Framework with Encapsulated Doxorubicin to Overcome Drug-Resistance. <i>ChemNanoMat</i> , 2019, 5, 1531-1539.	1.5	0
88	Cell-Free Unnatural Protein Synthesis. <i>SpringerBriefs in Applied Sciences and Technology</i> , 2020, , 13-19.	0.2	0
89	A Way to Control Distortion of Metal Parts during Heat Treatment Process. , 0, , 201-207.		0
90	Other Emerging Development Trends. <i>SpringerBriefs in Applied Sciences and Technology</i> , 2020, , 31-35.	0.2	0

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91	Optical Sensing in Cell-Free. Methods in Molecular Biology, 2022, 2433, 343-349.	0.4	0