

# He Huang

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/8230928/publications.pdf>

Version: 2024-02-01

47  
papers

1,920  
citations

201674

27  
h-index

254184

43  
g-index

47  
all docs

47  
docs citations

47  
times ranked

2347  
citing authors

#	ARTICLE	IF	CITATIONS
1	Advances in synthetic biology tools paving the way for the biomanufacturing of unusual fatty acids using the <i>Yarrowia lipolytica</i> chassis. <i>Biotechnology Advances</i> , 2022, 59, 107984.	11.7	22
2	YALlcloneNHEJ: An Efficient Modular Cloning Toolkit for NHEJ Integration of Multigene Pathway and Terpenoid Production in <i>Yarrowia lipolytica</i> . <i>Frontiers in Bioengineering and Biotechnology</i> , 2021, 9, 816980.	4.1	12
3	Fe <sub>3</sub> O <sub>4</sub> @chitosan Microspheres Coating as Cytoprotective Exoskeletons for the Enhanced Production of Butyric Acid With <i>Clostridium tyrobutyricum</i> Under Acid Stress. <i>Frontiers in Bioengineering and Biotechnology</i> , 2020, 8, 449.	4.1	10
4	Ionic liquids-modified cellulose coated magnetic nanoparticles for enzyme immobilization: Improvement of catalytic performance. <i>Carbohydrate Polymers</i> , 2020, 234, 115914.	10.2	79
5	Improved Production of Arachidonic Acid by Combined Pathway Engineering and Synthetic Enzyme Fusion in <i>Yarrowia lipolytica</i> . <i>Journal of Agricultural and Food Chemistry</i> , 2019, 67, 9851-9857.	5.2	33
6	Photodynamic Chitosan Nano-Assembly as a Potent Alternative Candidate for Combating Antibiotic-Resistant Bacteria. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 26711-26721.	8.0	67
7	Graphene Oxide Nanosheets Shielding of Lipase Immobilized on Magnetic Composites for the Improvement of Enzyme Stability. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 4486-4494.	6.7	51
8	Enhanced catalytic performance of lipase covalently bonded on ionic liquids modified magnetic alginate composites. <i>Journal of Colloid and Interface Science</i> , 2019, 553, 494-502.	9.4	26
9	Increasing the homologous recombination efficiency of eukaryotic microorganisms for enhanced genome engineering. <i>Applied Microbiology and Biotechnology</i> , 2019, 103, 4313-4324.	3.6	15
10	Catcher/Tag cyclization introduces electrostatic interaction mediated protein-protein interactions to enhance the thermostability of luciferase. <i>Process Biochemistry</i> , 2019, 80, 64-71.	3.7	6
11	Application of the CRISPR/Cas system for genome editing in microalgae. <i>Applied Microbiology and Biotechnology</i> , 2019, 103, 3239-3248.	3.6	37
12	Advances in the metabolic engineering of <i>Yarrowia lipolytica</i> for the production of terpenoids. <i>Bioresource Technology</i> , 2019, 281, 449-456.	9.6	80
13	The diversity and commonalities of the radiation-resistance mechanisms of <i>Deinococcus</i> and its up-to-date applications. <i>AMB Express</i> , 2019, 9, 138.	3.0	39
14	Synthesis of functional ionic liquid modified magnetic chitosan nanoparticles for porcine pancreatic lipase immobilization. <i>Materials Science and Engineering C</i> , 2019, 96, 356-364.	7.3	61
15	CRISPR/Cas9-Based Genome Editing in the Filamentous Fungus <i>Fusarium fujikuroi</i> and Its Application in Strain Engineering for Gibberellic Acid Production. <i>ACS Synthetic Biology</i> , 2019, 8, 445-454.	3.8	70
16	Engineering Microbes to Produce Polyunsaturated Fatty Acids. <i>Trends in Biotechnology</i> , 2019, 37, 344-346.	9.3	40
17	Programming Integrative Extracellular and Intracellular Biocatalysis for Rapid, Robust, and Recyclable Synthesis of Trehalose. <i>ACS Catalysis</i> , 2018, 8, 1837-1842.	11.2	35
18	In-Situ Biocatalytic Production of Trehalose with Autoinduction Expression of Trehalose Synthase. <i>Journal of Agricultural and Food Chemistry</i> , 2018, 66, 1444-1451.	5.2	10

#	ARTICLE	IF	CITATIONS
19	Advancing metabolic engineering of <i>Yarrowia lipolytica</i> using the CRISPR/Cas system. <i>Applied Microbiology and Biotechnology</i> , 2018, 102, 9541-9548.	3.6	43
20	Pretreatment with $\hat{\beta}$ -Valerolactone/[Mmim]DMP and Enzymatic Hydrolysis on Corn cob and Its Application in Immobilized Butyric Acid Fermentation. <i>Journal of Agricultural and Food Chemistry</i> , 2018, 66, 11709-11717.	5.2	14
21	Dispersible MoS <sub>2</sub> micro-sheets induced a proinflammatory response and apoptosis in the gills and liver of adult zebrafish. <i>RSC Advances</i> , 2018, 8, 17826-17836.	3.6	16
22	Enhancement of catalytic performance of porcine pancreatic lipase immobilized on functional ionic liquid modified Fe <sub>3</sub> O <sub>4</sub> -Chitosan nanocomposites. <i>International Journal of Biological Macromolecules</i> , 2018, 119, 624-632.	7.5	56
23	Programming a Biofilm-Mediated Multienzyme-Assembly-Cascade System for the Biocatalytic Production of Glucosamine from Chitin. <i>Journal of Agricultural and Food Chemistry</i> , 2018, 66, 8061-8068.	5.2	33
24	Insights from the complete genome sequence of <i>Clostridium tyrobutyricum</i> provide a platform for biotechnological and industrial applications. <i>Journal of Industrial Microbiology and Biotechnology</i> , 2017, 44, 1245-1260.	3.0	16
25	Engineering <i>Yarrowia lipolytica</i> for arachidonic acid production through rapid assembly of metabolic pathway. <i>Biochemical Engineering Journal</i> , 2017, 119, 52-58.	3.6	49
26	A <i>Yarrowia lipolytica</i> strain engineered for arachidonic acid production counteracts metabolic burden by redirecting carbon flux towards intracellular fatty acid accumulation at the expense of organic acids secretion. <i>Biochemical Engineering Journal</i> , 2017, 128, 201-209.	3.6	22
27	Immobilization of <i>Candida antarctica</i> lipase B on MWNTs modified by ionic liquids with different functional groups. <i>Colloids and Surfaces B: Biointerfaces</i> , 2017, 160, 416-422.	5.0	29
28	Tailoring the Oxidative Stress Tolerance of <i>Clostridium tyrobutyricum</i> CCTCC W428 by Introducing Trehalose Biosynthetic Capability. <i>Journal of Agricultural and Food Chemistry</i> , 2017, 65, 8892-8901.	5.2	14
29	CRISPR/Cas9-based genome editing of the filamentous fungi: the state of the art. <i>Applied Microbiology and Biotechnology</i> , 2017, 101, 7435-7443.	3.6	126
30	Luciferase-Zinc-Finger System for the Rapid Detection of Pathogenic Bacteria. <i>Journal of Agricultural and Food Chemistry</i> , 2017, 65, 6674-6681.	5.2	15
31	Dispersible MoS <sub>2</sub> Nanosheets Activated TGF- $\hat{\beta}$ 2/Smad Pathway and Perturbed the Metabolome of Human Dermal Fibroblasts. <i>ACS Biomaterials Science and Engineering</i> , 2017, 3, 3261-3272.	5.2	19
32	Microbial production of plant hormones: Opportunities and challenges. <i>Bioengineered</i> , 2017, 8, 124-128.	3.2	77
33	Investigating the Influence of MoS <sub>2</sub> Nanosheets on <i>E. coli</i> from Metabolomics Level. <i>PLoS ONE</i> , 2016, 11, e0167245.	2.5	42
34	Integrated Biocatalytic Process for Trehalose Production and Separation from Maltose. <i>Industrial &amp; Engineering Chemistry Research</i> , 2016, 55, 10566-10575.	3.7	23
35	Mechanism of Arachidonic Acid Accumulation during Aging in <i>Mortierella alpina</i> : A Large-Scale Label-Free Comparative Proteomics Study. <i>Journal of Agricultural and Food Chemistry</i> , 2016, 64, 9124-9134.	5.2	29
36	Counteraction of Trehalose on N, N-Dimethylformamide-Induced <i>Candida rugosa</i> Lipase Denaturation: Spectroscopic Insight and Molecular Dynamic Simulation. <i>PLoS ONE</i> , 2016, 11, e0152275.	2.5	8

#	ARTICLE	IF	CITATIONS
37	SpyTag/SpyCatcher Cyclization Enhances the Thermostability of Firefly Luciferase. PLoS ONE, 2016, 11, e0162318.	2.5	55
38	Optimization of bioconversion process for trehalose production from enzymatic hydrolysis of kudzu root starch using a visualization method. Bioresources and Bioprocessing, 2015, 2, .	4.2	6
39	Biotechnological applications of <i>Yarrowia lipolytica</i> : Past, present and future. Biotechnology Advances, 2015, 33, 1522-1546.	11.7	188
40	Lipid Fraction and Intracellular Metabolite Analysis Reveal the Mechanism of Arachidonic Acid-Rich Oil Accumulation in the Aging Process of <i>Mortierella alpina</i> . Journal of Agricultural and Food Chemistry, 2015, 63, 9812-9819.	5.2	24
41	Enhanced propionic acid production from whey lactose with immobilized <i>Propionibacterium acidipropionici</i> and the role of trehalose synthesis in acid tolerance. Green Chemistry, 2015, 17, 250-259.	9.0	69
42	Fungal arachidonic acid-rich oil: research, development and industrialization. Critical Reviews in Biotechnology, 2014, 34, 197-214.	9.0	85
43	Enhancing Catalytic Performance of Porcine Pancreatic Lipase by Covalent Modification Using Functional Ionic Liquids. ACS Catalysis, 2013, 3, 1976-1983.	11.2	69
44	Genome Sequence of <i>Clostridium tyrobutyricum</i> ATCC 25755, a Butyric Acid-Overproducing Strain. Genome Announcements, 2013, 1, .	0.8	27
45	Identification and Characterization of a Novel Trehalose Synthase Gene Derived from Saline-Alkali Soil Metagenomes. PLoS ONE, 2013, 8, e77437.	2.5	33
46	Development of a Defined Medium for Arachidonic Acid Production by <i>Mortierella alpina</i> Using a Visualization Method. Applied Biochemistry and Biotechnology, 2012, 168, 1516-1527.	2.9	7
47	Adaptive evolution for fast growth on glucose and the effects on the regulation of glucose transport system in <i>Clostridium tyrobutyricum</i> . Biotechnology and Bioengineering, 2012, 109, 708-718.	3.3	33