

# Guang-Lei Liu

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

94  
papers

1,943  
citations

24  
h-index

40  
g-index

98  
ext. papers

2,323  
ext. citations

6.2  
avg, IF

5.07  
L-index

#	Paper	IF	Citations
94	Implementation of novel boolean logic gates for IMPLICATION and XOR functions using riboregulators.. <i>Bioengineered</i> , <b>2022</b> , 13, 1235-1248	5.7	
93	A high molecular weight polyalate is synthesized by the whole genome duplicated strain <i>Aureobasidium melanogenum</i> OUC.. <i>International Journal of Biological Macromolecules</i> , <b>2022</b> , 202, 608-608	7.9	1
92	Making of Massoia Lactone-Loaded and Food-Grade Nanoemulsions and Their Bioactivities against a Pathogenic Yeast. <i>Journal of Marine Science and Engineering</i> , <b>2022</b> , 10, 339	2.4	0
91	<i>Aureobasidium</i> spp. and their applications in biotechnology. <i>Process Biochemistry</i> , <b>2022</b> , 116, 72-83	4.8	2
90	Liamocin overproduction by the mutants of <i>Aureobasidium melanogenum</i> 9-1 for effectively killing spores of the pathogenic fungi from diseased human skin by Massoia lactone.. <i>World Journal of Microbiology and Biotechnology</i> , <b>2022</b> , 38, 107	4.4	0
89	Metabolic engineering of <i>Aureobasidium melanogenum</i> for the overproduction of putrescine by improved L-ornithine biosynthesis.. <i>Microbiological Research</i> , <b>2022</b> , 260, 127041	5.3	0
88	The signaling pathways involved in metabolic regulation and stress responses of the yeast-like fungi <i>Aureobasidium</i> spp.. <i>Biotechnology Advances</i> , <b>2021</b> , 107898	17.8	0
87	Occurrence and Distribution of Strains of <i>Saccharomyces cerevisiae</i> in China Seas. <i>Journal of Marine Science and Engineering</i> , <b>2021</b> , 9, 590	2.4	
86	Liamocins biosynthesis, its regulation in spp., and their bioactivities. <i>Critical Reviews in Biotechnology</i> , <b>2021</b> , 1-13	9.4	6
85	Bioproduction of L-piperazic acid in gram scale using <i>Aureobasidium melanogenum</i> . <i>Microbial Biotechnology</i> , <b>2021</b> , 14, 1722-1729	6.3	2
84	Molecular evolution and regulation of DHN melanin-related gene clusters are closely related to adaptation of different melanin-producing fungi. <i>Genomics</i> , <b>2021</b> , 113, 1962-1975	4.3	5
83	Pullulan biosynthesis and its regulation in <i>Aureobasidium</i> spp. <i>Carbohydrate Polymers</i> , <b>2021</b> , 251, 117076	10.3	8
82	cAMP-PKA and HOG1 signaling pathways regulate liamocin production by different ways via the transcriptional activator Msn2 in <i>Aureobasidium melanogenum</i> . <i>Enzyme and Microbial Technology</i> , <b>2021</b> , 143, 109705	3.8	4
81	<i>Metschnikowia bicuspidate</i> associated with a milky disease in <i>Eriocheir sinensis</i> and its effectitve treatment by Massoia lactone. <i>Microbiological Research</i> , <b>2021</b> , 242, 126641	5.3	7
80	The Genome-Wide Mutation Shows the Importance of Cell Wall Integrity in Growth of the Psychrophilic Yeast <i>Metschnikowia australis</i> W7-5 at Different Temperatures. <i>Microbial Ecology</i> , <b>2021</b> , 81, 52-66	4.4	2
79	Polymalate (PMA) biosynthesis and its molecular regulation in <i>Aureobasidium</i> spp. <i>International Journal of Biological Macromolecules</i> , <b>2021</b> , 174, 512-518	7.9	3
78	The GATA type transcriptional factors regulate pullulan biosynthesis in <i>Aureobasidium melanogenum</i> P16. <i>International Journal of Biological Macromolecules</i> , <b>2021</b> , 192, 161-168	7.9	3

77	Massoia Lactone Displays Strong Antifungal Property Against Many Crop Pathogens and Its Potential Application. <i>Microbial Ecology</i> , <b>2021</b> , 1	4.4	3
76	Robust production of pigment-free pullulan from lignocellulosic hydrolysate by a new fungus co-utilizing glucose and xylose. <i>Carbohydrate Polymers</i> , <b>2020</b> , 241, 116400	10.3	10
75	Fungi in mangrove ecosystems and their potential applications. <i>Critical Reviews in Biotechnology</i> , <b>2020</b> , 40, 852-864	9.4	2
74	Pullulan biosynthesis in yeast-like fungal cells is regulated by the transcriptional activator Msn2 and cAMP-PKA signaling pathway. <i>International Journal of Biological Macromolecules</i> , <b>2020</b> , 157, 591-603	7.9	8
73	Genetic evidences for the core biosynthesis pathway, regulation, transport and secretion of liamocins in yeast-like fungal cells. <i>Biochemical Journal</i> , <b>2020</b> , 477, 887-903	3.8	10
72	Alternative primers are required for pullulan biosynthesis in <i>Aureobasidium melanogenum</i> P16. <i>International Journal of Biological Macromolecules</i> , <b>2020</b> , 147, 10-17	7.9	9
71	Cellular lipid production by the fatty acid synthase-duplicated <i>Lipomyces kononenkoae</i> BF1S57 strain for biodiesel making. <i>Renewable Energy</i> , <b>2020</b> , 151, 707-714	8.1	5
70	A multidomain $\beta$ -glucan synthetase 2 (AmAgs2) is the key enzyme for pullulan biosynthesis in <i>Aureobasidium melanogenum</i> P16. <i>International Journal of Biological Macromolecules</i> , <b>2020</b> , 150, 1037-1045	7.9	11
69	A novel PMA synthetase is the key enzyme for polymalate biosynthesis and its gene is regulated by a calcium signaling pathway in <i>Aureobasidium melanogenum</i> ATCC62921. <i>International Journal of Biological Macromolecules</i> , <b>2020</b> , 156, 1053-1063	7.9	8
68	Improved production of an acidic exopolysaccharide, the efficient flocculant, by <i>Lipomyces starkeyi</i> U9 overexpressing UDP-glucose dehydrogenase gene. <i>International Journal of Biological Macromolecules</i> , <b>2020</b> , 165, 1656-1663	7.9	5
67	The differences between fungal $\beta$ -glucan synthase determining pullulan synthesis and that controlling cell wall $\beta$ ,3 glucan synthesis. <i>International Journal of Biological Macromolecules</i> , <b>2020</b> , 162, 436-444	7.9	2
66	Glycerol, trehalose and vacuoles had relations to pullulan synthesis and osmotic tolerance by the whole genome duplicated strain <i>Aureobasidium melanogenum</i> TN3-1 isolated from natural honey. <i>International Journal of Biological Macromolecules</i> , <b>2020</b> , 165, 131-140	7.9	3
65	Melanin biosynthesis in the desert-derived <i>Aureobasidium melanogenum</i> XJ5-1 is controlled mainly by the CWI signal pathway via a transcriptional activator Cmr1. <i>Current Genetics</i> , <b>2020</b> , 66, 173-185	2.9	8
64	Genetical Surface Display of Silicatein on Confers Living and Renewable Biosilica-Yeast Hybrid Materials. <i>ACS Omega</i> , <b>2020</b> , 5, 7555-7566	3.9	4
63	Improved pullulan production by a mutant of <i>Aureobasidium melanogenum</i> TN3-1 from a natural honey and capsule shell preparation. <i>International Journal of Biological Macromolecules</i> , <b>2019</b> , 141, 268-279	7.9	16
62	Efficient simultaneous production of extracellular polyol esters of fatty acids and intracellular lipids from inulin by a deep-sea yeast <i>Rhodotorula paludigena</i> P4R5. <i>Microbial Cell Factories</i> , <b>2019</b> , 18, 149	6.4	4
61	Macromolecular pullulan produced by <i>Aureobasidium melanogenum</i> 13-2 isolated from the Taklimakan desert and its crucial roles in resistance to the stress treatments. <i>International Journal of Biological Macromolecules</i> , <b>2019</b> , 135, 429-436	7.9	13
60	A new engineered endo-inulinase with improved activity and thermostability: Application in the production of prebiotic fructo-oligosaccharides from inulin. <i>Food Chemistry</i> , <b>2019</b> , 294, 293-301	8.5	13

59	Overproduction of a $\beta$ -fructofuranosidase1 with a high FOS synthesis activity for efficient biosynthesis of fructooligosaccharides. <i>International Journal of Biological Macromolecules</i> , <b>2019</b> , 130, 988-996	7.9	20
58	Over-expression of <i>Vitreoscilla</i> hemoglobin (VHb) and flavohemoglobin (FHb) genes greatly enhances pullulan production. <i>International Journal of Biological Macromolecules</i> , <b>2019</b> , 132, 701-709	7.9	13
57	Biosynthesis of some organic acids and lipids in industrially important microorganisms is promoted by pyruvate carboxylases. <i>Journal of Biosciences</i> , <b>2019</b> , 44, 1	2.3	7
56	High pullulan biosynthesis from high concentration of glucose by a hyperosmotic resistant, yeast-like fungal strain isolated from a natural comb-honey. <i>Food Chemistry</i> , <b>2019</b> , 286, 123-128	8.5	18
55	Genome editing of different strains of <i>Aureobasidium melanogenum</i> using an efficient Cre/loxP site-specific recombination system. <i>Fungal Biology</i> , <b>2019</b> , 123, 723-731	2.8	18
54	Metabolic Rewiring Improves the Production of the Fungal Active Targeting Molecule Fusarinine C. <i>ACS Synthetic Biology</i> , <b>2019</b> , 8, 1755-1765	5.7	11
53	Efficient Conversion of Cane Molasses into Fructooligosaccharides by a Glucose Derepression Mutant of with High $\beta$ -Fructofuranosidase Activity. <i>Journal of Agricultural and Food Chemistry</i> , <b>2019</b> , 67, 13665-13672	5.7	14
52	Genome sequencing of a yeast-like fungal strain P6, a novel species of <i>Aureobasidium</i> spp.: insights into its taxonomy, evolution, and biotechnological potentials. <i>Annals of Microbiology</i> , <b>2019</b> , 69, 1475-1488	3.2	4
51	Relationship between $\beta$ -d-fructofuranosidase activity, fructooligosaccharides and pullulan biosynthesis in <i>Aureobasidium melanogenum</i> P16. <i>International Journal of Biological Macromolecules</i> , <b>2019</b> , 125, 1103-1111	7.9	7
50	Production, Gene Cloning, and Overexpression of a Laccase in the Marine-Derived Yeast <i>Aureobasidium melanogenum</i> Strain 11-1 and Characterization of the Recombinant Laccase. <i>Marine Biotechnology</i> , <b>2019</b> , 21, 76-87	3.4	13
49	Genome sequencing of <i>Aureobasidium pullulans</i> P25 and overexpression of a glucose oxidase gene for hyper-production of Ca-gluconic acid. <i>Antonie Van Leeuwenhoek</i> , <b>2019</b> , 112, 669-678	2.1	7
48	Efficient production of a recombinant $\beta$ -rarrageenase in <i>Brevibacillus choshinensis</i> using a new integrative vector for the preparation of $\beta$ -rarrageenan oligosaccharides. <i>Process Biochemistry</i> , <b>2019</b> , 76, 68-76	4.8	6
47	An insight into the iron acquisition and homeostasis in <i>Aureobasidium melanogenum</i> HN6.2 strain through genome mining and transcriptome analysis. <i>Functional and Integrative Genomics</i> , <b>2019</b> , 19, 137-150	3.8	9
46	Efficient transformation of sucrose into high pullulan concentrations by <i>Aureobasidium melanogenum</i> TN1-2 isolated from a natural honey. <i>Food Chemistry</i> , <b>2018</b> , 257, 29-35	8.5	26
45	Cell wall integrity is required for pullulan biosynthesis and glycogen accumulation in <i>Aureobasidium melanogenum</i> P16. <i>Biochimica Et Biophysica Acta - General Subjects</i> , <b>2018</b> , 1862, 1516-1526	4.6	7
44	Fatty acids from oleaginous yeasts and yeast-like fungi and their potential applications. <i>Critical Reviews in Biotechnology</i> , <b>2018</b> , 38, 1049-1060	9.4	43
43	Overexpression of a pyruvate carboxylase gene enhances extracellular liamocin and intracellular lipid biosynthesis by <i>Aureobasidium melanogenum</i> M39. <i>Process Biochemistry</i> , <b>2018</b> , 69, 64-74	4.8	20
42	Genetics of trehalose biosynthesis in desert-derived <i>Aureobasidium melanogenum</i> and role of trehalose in the adaptation of the yeast to extreme environments. <i>Current Genetics</i> , <b>2018</b> , 64, 479-491	2.9	19

41	High-level extracellular expression of $\beta$ -arrageenase in <i>Brevibacillus choshinensis</i> for the production of a series of $\beta$ -arrageenan oligosaccharides. <i>Process Biochemistry</i> , <b>2018</b> , 64, 83-92	4.8	10
40	$\beta$ -Amylase, glucoamylase and isopullulanase determine molecular weight of pullulan produced by <i>Aureobasidium melanogenum</i> P16. <i>International Journal of Biological Macromolecules</i> , <b>2018</b> , 117, 727-734	7.9	22
39	Co-expression of Exo-inulinase and Endo-inulinase Genes in the Oleaginous Yeast <i>Yarrowia lipolytica</i> for Efficient Single Cell Oil Production from Inulin. <i>Applied Biochemistry and Biotechnology</i> , <b>2018</b> , 185, 334-346	3.2	11
38	Heavy oils (mainly alkanes) over-production from inulin by <i>Aureobasidium melanogenum</i> 9-1 and its transformant 88 carrying an inulinase gene. <i>Renewable Energy</i> , <b>2017</b> , 105, 561-568	8.1	11
37	Simultaneous production of both high molecular weight pullulan and oligosaccharides by <i>Aureobasidium melanogenum</i> P16 isolated from a mangrove ecosystem. <i>International Journal of Biological Macromolecules</i> , <b>2017</b> , 102, 1016-1024	7.9	17
36	High-efficient production of fructo-oligosaccharides from inulin by a two-stage bioprocess using an engineered <i>Yarrowia lipolytica</i> strain. <i>Carbohydrate Polymers</i> , <b>2017</b> , 173, 592-599	10.3	21
35	Overexpression of both the lactase gene and its transcriptional activator gene greatly enhances lactase production by <i>Kluyveromyces marxianus</i> . <i>Process Biochemistry</i> , <b>2017</b> , 61, 38-46	4.8	5
34	A glycosyltransferase gene responsible for pullulan biosynthesis in <i>Aureobasidium melanogenum</i> P16. <i>International Journal of Biological Macromolecules</i> , <b>2017</b> , 95, 539-549	7.9	24
33	Both a PKS and a PPTase are involved in melanin biosynthesis and regulation of <i>Aureobasidium melanogenum</i> XJ5-1 isolated from the Taklimakan desert. <i>Gene</i> , <b>2017</b> , 602, 8-15	3.8	23
32	CreA is directly involved in pullulan biosynthesis and regulation of <i>Aureobasidium melanogenum</i> P16. <i>Current Genetics</i> , <b>2017</b> , 63, 471-485	2.9	30
31	Melanin production by a yeast strain XJ5-1 of <i>Aureobasidium melanogenum</i> isolated from the Taklimakan desert and its role in the yeast survival in stress environments. <i>Extremophiles</i> , <b>2016</b> , 20, 567-577	7.7	27
30	Poly(L-malic acid) (PMLA) from <i>Aureobasidium</i> spp. and its current proceedings. <i>Applied Microbiology and Biotechnology</i> , <b>2016</b> , 100, 3841-51	5.7	41
29	Bio-products produced by marine yeasts and their potential applications. <i>Bioresource Technology</i> , <b>2016</b> , 202, 244-52	11	24
28	Production, Purification, and Gene Cloning of a $\beta$ -Fructofuranosidase with a High Inulin-hydrolyzing Activity Produced by a Novel Yeast <i>Aureobasidium</i> sp. P6 Isolated from a Mangrove Ecosystem. <i>Marine Biotechnology</i> , <b>2016</b> , 18, 500-10	3.4	18
27	Synergistic effect between the recombinant exo-inulinase and endo-inulinase on inulin hydrolysis. <i>Journal of Molecular Catalysis B: Enzymatic</i> , <b>2016</b> , 128, 27-38		13
26	Enhanced exo-inulinase activity and stability by fusion of an inulin-binding module. <i>Applied Microbiology and Biotechnology</i> , <b>2016</b> , 100, 8063-74	5.7	13
25	The lipopeptide 6-2 produced by <i>Bacillus amyloliquefaciens</i> anti-CA has potent activity against the biofilm-forming organisms. <i>Marine Pollution Bulletin</i> , <b>2016</b> , 108, 62-9	6.7	4
24	Enhanced citric acid production by a yeast <i>Yarrowia lipolytica</i> over-expressing a pyruvate carboxylase gene. <i>Bioprocess and Biosystems Engineering</i> , <b>2016</b> , 39, 1289-96	3.7	29

23	Yeast killer toxins, molecular mechanisms of their action and their applications. <i>Critical Reviews in Biotechnology</i> , <b>2015</b> , 35, 222-34	9.4	55
22	Taxonomy of <i>Aureobasidium</i> spp. and biosynthesis and regulation of their extracellular polymers. <i>Critical Reviews in Microbiology</i> , <b>2015</b> , 41, 228-37	7.8	52
21	Enhanced production of Ca <sup>2+</sup> -polymalate (PMA) with high molecular mass by <i>Aureobasidium pullulans</i> var. <i>pullulans</i> MCW. <i>Microbial Cell Factories</i> , <b>2015</b> , 14, 115	6.4	22
20	Genetic Modification of the Marine-Isolated Yeast <i>Aureobasidium melanogenum</i> P16 for Efficient Pullulan Production from Inulin. <i>Marine Biotechnology</i> , <b>2015</b> , 17, 511-22	3.4	36
19	Role of pyruvate carboxylase in accumulation of intracellular lipid of the oleaginous yeast <i>Yarrowia lipolytica</i> ACA-DC 50109. <i>Applied Microbiology and Biotechnology</i> , <b>2015</b> , 99, 1637-45	5.7	24
18	High-level pullulan production by <i>Aureobasidium pullulans</i> var. <i>melanogenum</i> P16 isolated from mangrove system. <i>Applied Microbiology and Biotechnology</i> , <b>2014</b> , 98, 4865-73	5.7	58
17	Inulinase production by the yeast <i>Kluyveromyces marxianus</i> with the disrupted MIG1 gene and the over-expressed inulinase gene. <i>Process Biochemistry</i> , <b>2014</b> , 49, 1867-1874	4.8	22
16	Heavy oils, principally long-chain n-alkanes secreted by <i>Aureobasidium pullulans</i> var. <i>melanogenum</i> strain P5 isolated from mangrove system. <i>Journal of Industrial Microbiology and Biotechnology</i> , <b>2014</b> , 41, 1329-37	4.2	23
15	Calcium malate overproduction by <i>Penicillium viticola</i> 152 using the medium containing corn steep liquor. <i>Applied Microbiology and Biotechnology</i> , <b>2014</b> , 98, 1539-46	5.7	36
14	Enhanced expression of the codon-optimized exo-inulinase gene from the yeast <i>Meyerozyma guilliermondii</i> in <i>Saccharomyces</i> sp. W0 and bioethanol production from inulin. <i>Applied Microbiology and Biotechnology</i> , <b>2014</b> , 98, 9129-38	5.7	35
13	Ethanol production from inulin and unsterilized meal of Jerusalem artichoke tubers by <i>Saccharomyces</i> sp. W0 expressing the endo-inulinase gene from <i>Arthrobacter</i> sp. <i>Bioresource Technology</i> , <b>2013</b> , 147, 254-259	11	24
12	Molecular characterization and expression of microbial inulinase genes. <i>Critical Reviews in Microbiology</i> , <b>2013</b> , 39, 152-65	7.8	42
11	Overproduction of poly(L-malic acid) (PMA) from glucose by a novel <i>Aureobasidium</i> sp. P6 strain isolated from mangrove system. <i>Applied Microbiology and Biotechnology</i> , <b>2013</b> , 97, 8931-9	5.7	29
10	Overexpression of the endo-inulinase gene from <i>Arthrobacter</i> sp. S37 in <i>Yarrowia lipolytica</i> and characterization of the recombinant endo-inulinase. <i>Journal of Molecular Catalysis B: Enzymatic</i> , <b>2012</b> , 74, 109-115		28
9	Occurrence and diversity of yeasts in the mangrove ecosystems in Fujian, Guangdong and Hainan provinces of China. <i>Indian Journal of Microbiology</i> , <b>2012</b> , 52, 346-53	3.7	17
8	Mig1 is involved in mycelial formation and expression of the genes encoding extracellular enzymes in <i>Saccharomycopsis fibuligera</i> A11. <i>Fungal Genetics and Biology</i> , <b>2011</b> , 48, 904-13	3.9	56
7	18S rDNA integration of the exo-inulinase gene into chromosomes of the high ethanol producing yeast <i>Saccharomyces</i> sp. W0 for direct conversion of inulin to bioethanol. <i>Biomass and Bioenergy</i> , <b>2011</b> , 35, 3032-3039	5.3	18
6	Purification and characterization of $\beta$ -arrageenase from the marine bacterium <i>Pseudoalteromonas porphyrae</i> for hydrolysis of $\beta$ -arrageenan. <i>Process Biochemistry</i> , <b>2011</b> , 46, 265-271	4.8	48

5	Inulin hydrolysis and citric acid production from inulin using the surface-engineered <i>Yarrowia lipolytica</i> displaying inulinase. <i>Metabolic Engineering</i> , <b>2010</b> , 12, 469-76	9.7	98
4	Production, characterization and gene cloning of the extracellular enzymes from the marine-derived yeasts and their potential applications. <i>Biotechnology Advances</i> , <b>2009</b> , 27, 236-55	17.8	75
3	The surface display of the alginate lyase on the cells of <i>Yarrowia lipolytica</i> for hydrolysis of alginate. <i>Marine Biotechnology</i> , <b>2009</b> , 11, 619-26	3.4	28
2	Inulinase-expressing microorganisms and applications of inulinases. <i>Applied Microbiology and Biotechnology</i> , <b>2009</b> , 82, 211-20	5.7	164
1	Bioproducts from <i>Aureobasidium pullulans</i> , a biotechnologically important yeast. <i>Applied Microbiology and Biotechnology</i> , <b>2009</b> , 82, 793-804	5.7	170