Nan Peng

List of Publications by Year
in descending order

62 papers	1,997 citations	257429 24 h-index	276858 41 g-index
65 all docs	65 docs citations	65 times ranked	1815 citing authors

#	Article	IF	Citations
1	Harnessing Type I and Type III CRISPR-Cas systems for genome editing. Nucleic Acids Research, 2016, 44, e34-e34.	14.5	176
2	A Synthetic Arabinose-Inducible Promoter Confers High Levels of Recombinant Protein Expression in Hyperthermophilic Archaeon Sulfolobus islandicus. Applied and Environmental Microbiology, 2012, 78, 5630-5637.	3.1	111
3	Diversity and Contributions to Nitrogen Cycling and Carbon Fixation of Soil Salinity Shaped Microbial Communities in Tarim Basin. Frontiers in Microbiology, 2018, 9, 431.	3.5	89
4	High-titer lactic acid production from NaOH-pretreated corn stover by Bacillus coagulans LA204 using fed-batch simultaneous saccharification and fermentation under non-sterile condition. Bioresource Technology, 2015, 182, 251-257.	9.6	87
5	High-titer lactic acid production by Lactobacillus pentosus FL0421 from corn stover using fed-batch simultaneous saccharification and fermentation. Bioresource Technology, 2016, 214, 74-80.	9.6	80
6	An upstream activation element exerting differential transcriptional activation on an archaeal promoter. Molecular Microbiology, 2009, 74, 928-939.	2.5	77
7	A novel polysaccharide from mycelia of cultured Phellinus linteus displays antitumor activity through apoptosis. Carbohydrate Polymers, 2015, 124, 90-97.	10.2	75
8	A type III-B CRISPR-Cas effector complex mediating massive target DNA destruction. Nucleic Acids Research, 2017, 45, gkw1274.	14.5	67
9	Archaeal Extrachromosomal Genetic Elements. Microbiology and Molecular Biology Reviews, 2015, 79, 117-152.	6.6	64
10	Transcriptional regulator-mediated activation of adaptation genes triggers CRISPR de novo spacer acquisition. Nucleic Acids Research, 2015, 43, 1044-1055.	14.5	60
11	Coupling transcriptional activation of CRISPRâ€“Cas system and DNA repair genes by Csa3a in Sulfolobus islandicus. Nucleic Acids Research, 2017, 45, 8978-8992.	14.5	60
12	Genetic technologies for extremely thermophilic microorganisms of Sulfolobus, the only genetically tractable genus of crenarchaea. Science China Life Sciences, 2017, 60, 370-385.	4.9	53
13	Dietary Enterococcus faecalis LAB31 Improves Growth Performance, Reduces Diarrhea, and Increases Fecal Lactobacillus Number of Weaned Piglets. PLoS ONE, 2015, 10, e0116635.	2.5	52
14	Genetic determinants of PAM-dependent DNA targeting and pre-crRNA processing inSulfolobus islandicus. RNA Biology, 2013, 10, 738-748.	3.1	50
15	Low molecular weight chitosan is an effective antifungal agent against Botryosphaeria sp. and preservative agent for pear (Pyrus) fruits. International Journal of Biological Macromolecules, 2017, 95, 1135-1143.	7.5	48
16	Changes in microbial community during fermentation of high-temperature Daqu used in the production of Chinese â€˜Baiyunbianâ€™ liquor. Journal of the Institute of Brewing, 2017, 123, 594-599.	2.3	44
17	Cas4 Nucleases Can Effect Specific Integration of CRISPR Spacers. Journal of Bacteriology, 2019, 201, .	2.2	41
18	Purification and Identification of Antioxidant Peptides from Enzymatic Hydrolysate of Spirulina platensis. Journal of Microbiology and Biotechnology, 2016, 26, 1216-1223.	2.1	41

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19	Single-cell Protein and Xylitol Production by a Novel Yeast Strain Candida intermedia FL023 from Lignocellulosic Hydrolysates and Xylose. Applied Biochemistry and Biotechnology, 2018, 185, 163-178.	2.9	39
20	Endogenous CRISPR-Cas System-Based Genome Editing and Antimicrobials: Review and Prospects. Frontiers in Microbiology, 2019, 10, 2471.	3.5	39
21	Developmental, Dietary, and Geographical Impacts on Gut Microbiota of Red Swamp Crayfish (Procambarus clarkii). Microorganisms, 2020, 8, 1376.	3.6	38
22	Study on microbial communities and higher alcohol formations in the fermentation of Chinese Xiaoqu Baijiu produced by traditional and new mechanical technologies. Food Research International, 2021, 140, 109876.	6.2	38
23	Effects of a probiotic (Bacillus subtilisFY99-01) on the bacterial community structure and composition of shrimp (Litopenaeus vannamei, Boone) culture water assessed by denaturing gradient gel electrophoresis and high-throughput sequencing. Aquaculture Research, 2016, 47, 857-869.	1.8	34
24	Comparison of high-titer lactic acid fermentation from NaOH- and NH3-H2O2-pretreated corncob by Bacillus coagulans using simultaneous saccharification and fermentation. Scientific Reports, 2016, 6, 37245.	3.3	28
25	Archaeal promoter architecture and mechanism of gene activation. Biochemical Society Transactions, 2011, 39, 99-103.	3.4	25
26	Cmr1 enables efficient RNA and DNA interference of a III-B CRISPRâ€“Cas system by binding to target RNA and crRNA. Nucleic Acids Research, 2017, 45, 11305-11314.	14.5	23
27	Characterisation and comparison of the microflora of traditional and pure culturexiaoquduring thebaijiuliquor brewing process. Journal of the Institute of Brewing, 2020, 126, 213-220.	2.3	23
28	Isolation, Characterization, and Antitumor Activity of a Novel Heteroglycan from Cultured Mycelia of Cordyceps sinensis. Planta Medica, 2014, 80, 1107-1112.	1.3	22
29	High-Efficiency Genome Editing Based on Endogenous CRISPR-Cas System Enhances Cell Growth and Lactic Acid Production in Pediococcus acidilactici. Applied and Environmental Microbiology, 2021, 87, e0094821.	3.1	20
30	Type III CRISPR-Cas System: Introduction And Its Application for Genetic Manipulations. Current Issues in Molecular Biology, 2018, 26, 1-14.	2.4	20
31	The Sulfolobus Initiator Element Is an Important Contributor to Promoter Strength. Journal of Bacteriology, 2013, 195, 5216-5222.	2.2	19
32	Rheinheimera mangrovi sp. nov., a bacterium isolated from mangrove sediment. International Journal of Systematic and Evolutionary Microbiology, 2020, 70, 6188-6194.	1.7	19
33	A seed motif for target RNA capture enables efficient immune defence by a type III-B CRISPR-Cas system. RNA Biology, 2019, 16, 1166-1178.	3.1	18
34	Aminoglycoside Antibiotics Inhibit Mycobacteriophage Infection. Antibiotics, 2020, 9, 714.	3.7	17
35	Mitsuaria chitosanase with unrevealed important amino acid residues: characterization and enhanced production in Pichia pastoris. Applied Microbiology and Biotechnology, 2013, 97, 171-179.	3.6	15
36	Biodetoxification of Phenolic Inhibitors from Lignocellulose Pretreatment using Kurthia huakuii LAM0618T and Subsequent Lactic Acid Fermentation. Molecules, 2018, 23, 2626.	3.8	15

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37	CRISPR-mediated host genomic DNA damage is efficiently repaired through microhomology-mediated end joining in Zymomonas mobilis. Journal of Genetics and Genomics, 2021, 48, 115-122.	3.9	15
38	Conversion of yellow wine lees into high-protein yeast culture by solid-state fermentation. Biotechnology and Biotechnological Equipment, 2014, 28, 843-849.	1.3	14
39	Insights into the postâ€translational modifications of archaeal Sis10b (Alba): lysineâ€16 is methylated, not acetylated, and this does not regulate transcription or growth. Molecular Microbiology, 2018, 109, 192-208.	2.5	14
40	Pararcticibacter amylolyticus gen. nov., sp. nov., Isolated from a Rotten Hemp Rope, and Reclassification of Pedobacter tournemirensis as Pararcticibacter tournemirensis comb. nov.. Current Microbiology, 2020, 77, 320-326.	2.2	14
41	Shimia sediminis sp. nov., a bacterium isolated from marine sediment in the East China Sea. International Journal of Systematic and Evolutionary Microbiology, 2021, 71, .	1.7	14
42	Anaerobic and sequential aerobic production of high-titer ethanol and single cell protein from NaOH-pretreated corn stover by a genome shuffling-modified Saccharomyces cerevisiae strain. Bioresource Technology, 2016, 218, 623-630.	9.6	13
43	High-Titer Lactic Acid Production by Pediococcus acidilactici PA204 from Corn Stover through Fed-Batch Simultaneous Saccharification and Fermentation. Microorganisms, 2020, 8, 1491.	3.6	13
44	Heterologous expression of AHL lactonase AiiK by Lactobacillus casei MCJÎ”1 with great quorum quenching ability against Aeromonas hydrophila AH-1 and AH-4. Microbial Cell Factories, 2020, 19, 191.	4.0	12
45	Detection of Viable and Total Bacterial Community in the Pit Mud of Chinese Strong-Flavor Liquor Using Propidium Monoazide Combined With Quantitative PCR and 16S rRNA Gene Sequencing. Frontiers in Microbiology, 2020, 11, 896.	3.5	12
46	Characteristics of the Microbial Community in the Production of Chinese Rice-Flavor Baijiu and Comparisons With the Microflora of Other Flavors of Baijiu. Frontiers in Microbiology, 2021, 12, 673670.	3.5	12
47	Cellulosic ethanol production by consortia of Scheffersomyces stipitis and engineered Zymomonas mobilis. Biotechnology for Biofuels, 2021, 14, 221.	6.2	12
48	Optimization ofSaccharomyces boulardiiproduction in solid-state fermentation with response surface methodology. Biotechnology and Biotechnological Equipment, 2016, 30, 173-179.	1.3	11
49	Detection of viable and total fungal community in zaopei of Chinese strong-flavor baijiu using PMA combined with qPCR and HTS based on ITS2 region. BMC Microbiology, 2021, 21, 274.	3.3	11
50	Analysis of bacterial communities in pit mud from Zhijiang Baijiu distillery using denaturing gradient gel electrophoresis and high- throughput sequencing. Journal of the Institute of Brewing, 2020, 126, 90-97.	2.3	10
51	CRISPR-Associated Factor Csa3b Regulates CRISPR Adaptation and Cmr-Mediated RNA Interference in Sulfolobus islandicus. Frontiers in Microbiology, 2020, 11, 2038.	3.5	10
52	Algal Growth Enhances Light-Mediated Limitation of Bacterial Nitrification in an Aquaculture System. Water, Air, and Soil Pollution, 2020, 231, 1.	2.4	10
53	Enhanced lactic acid production byBacillus coagulansthrough simultaneous saccharification, biodetoxification, and fermentation. Biofuels, Bioproducts and Biorefining, 2020, 14, 533-543.	3.7	10
54	Phage Therapy: Consider the Past, Embrace the Future. Applied Sciences (Switzerland), 2020, 10, 7654.	2.5	9

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55	Endogenous CRISPR-assisted microhomology-mediated end joining enables rapid genome editing in Zymomonas mobilis. Biotechnology for Biofuels, 2021, 14, 208.	6.2	9
56	Bio-detoxification Bacteria Isolated from Dye-Polluted Soils Promote Lactic Acid Production from Ammonia Pretreated Corn Stover. Applied Biochemistry and Biotechnology, 2019, 189, 129-143.	2.9	8
57	Reprogramming Mycobacterium tuberculosis CRISPR System for Gene Editing and Genome-wide RNA Interference Screening. Genomics, Proteomics and Bioinformatics, 2022, 20, 1180-1196.	6.9	7
58	Comprehensive utilization of palm kernel cake for producing mannose and manno-oligosaccharide mixture and yeast culture. Applied Microbiology and Biotechnology, 2022, 106, 1045-1056.	3.6	5
59	A CRISPR-associated factor Csa3a regulates DNA damage repair in Crenarchaeon Sulfolobus islandicus. Nucleic Acids Research, 2020, 48, 9681-9693.	14.5	3
60	Bismuth ferrite Fentonâ€like pretreatment improves lactic acid production from corn stover without detoxification by <scp>Bacillus coagulans</scp>. Biofuels, Bioproducts and Biorefining, 2021, 15, 1753-1762.	3.7	3
61	Heterologous Expression and Characterization of a Thermostable Exo-ï¿½ï¿½-D-Glucosaminidase from Aspergillus oryzae. Journal of Microbiology and Biotechnology, 2016, 26, 347-355.	2.1	2
62	Bacterial and Archaeal Water and Sediment Communities of Two Hot Spring Streams in Tengchong, Yunnan Province, China. Diversity, 2022, 14, 381.	1.7	1