

Yanfeng Liu

List of Publications by Year in descending order

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107
papers

3,330
citations

159358

30
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174990

52
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110
all docs

110
docs citations

110
times ranked

2544
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 1 | Microbial production of hyaluronic acid: current state, challenges, and perspectives. <i>Microbial Cell Factories</i> , 2011, 10, 99. | 1.9 | 288 |
| 2 | Advances and prospects of <i>Bacillus subtilis</i> cellular factories: From rational design to industrial applications. <i>Metabolic Engineering</i> , 2018, 50, 109-121. | 3.6 | 163 |
| 3 | Combinatorial pathway enzyme engineering and host engineering overcomes pyruvate overflow and enhances overproduction of N-acetylglucosamine in <i>Bacillus subtilis</i> . <i>Microbial Cell Factories</i> , 2019, 18, 1. | 1.9 | 163 |
| 4 | Modular pathway engineering of <i>Bacillus subtilis</i> for improved N-acetylglucosamine production. <i>Metabolic Engineering</i> , 2014, 23, 42-52. | 3.6 | 130 |
| 5 | Developing <i>Bacillus</i> spp. as a cell factory for production of microbial enzymes and industrially important biochemicals in the context of systems and synthetic biology. <i>Applied Microbiology and Biotechnology</i> , 2013, 97, 6113-6127. | 1.7 | 121 |
| 6 | Design of a programmable biosensor-CRISPRi genetic circuits for dynamic and autonomous dual-control of metabolic flux in <i>Bacillus subtilis</i> . <i>Nucleic Acids Research</i> , 2020, 48, 996-1009. | 6.5 | 111 |
| 7 | Microbial production of glucosamine and N-acetylglucosamine: advances and perspectives. <i>Applied Microbiology and Biotechnology</i> , 2013, 97, 6149-6158. | 1.7 | 105 |
| 8 | Pyruvate-responsive genetic circuits for dynamic control of central metabolism. <i>Nature Chemical Biology</i> , 2020, 16, 1261-1268. | 3.9 | 94 |
| 9 | Microbial Chassis Development for Natural Product Biosynthesis. <i>Trends in Biotechnology</i> , 2020, 38, 779-796. | 4.9 | 84 |
| 10 | CRISPRi allows optimal temporal control of N-acetylglucosamine bioproduction by a dynamic coordination of glucose and xylose metabolism in <i>Bacillus subtilis</i> . <i>Metabolic Engineering</i> , 2018, 49, 232-241. | 3.6 | 83 |
| 11 | Synthetic Biology Toolbox and Chassis Development in <i>Bacillus subtilis</i> . <i>Trends in Biotechnology</i> , 2019, 37, 548-562. | 4.9 | 81 |
| 12 | Spatial modulation of key pathway enzymes by DNA-guided scaffold system and respiration chain engineering for improved N-acetylglucosamine production by <i>Bacillus subtilis</i> . <i>Metabolic Engineering</i> , 2014, 24, 61-69. | 3.6 | 77 |
| 13 | Pathway engineering of <i>Bacillus subtilis</i> for microbial production of N-acetylglucosamine. <i>Metabolic Engineering</i> , 2013, 19, 107-115. | 3.6 | 76 |
| 14 | Metabolic engineering of <i>Bacillus subtilis</i> fueled by systems biology: Recent advances and future directions. <i>Biotechnology Advances</i> , 2017, 35, 20-30. | 6.0 | 74 |
| 15 | Synthetic redesign of central carbon and redox metabolism for high yield production of N-acetylglucosamine in <i>Bacillus subtilis</i> . <i>Metabolic Engineering</i> , 2019, 51, 59-69. | 3.6 | 66 |
| 16 | CAMERSaCB: CRISPR/Cpf1 assisted multiple genes editing and regulation system for <i>Bacillus subtilis</i> . <i>Biotechnology and Bioengineering</i> , 2020, 117, 1817-1825. | 1.7 | 58 |
| 17 | Engineering the Substrate Transport and Cofactor Regeneration Systems for Enhancing 2- ² -Fucosyllactose Synthesis in <i>Bacillus subtilis</i> . <i>ACS Synthetic Biology</i> , 2019, 8, 2418-2427. | 1.9 | 54 |
| 18 | Engineering a Glucosamine-6-phosphate Responsive <i>glmS</i> Ribozyme Switch Enables Dynamic Control of Metabolic Flux in <i>Bacillus subtilis</i> for Overproduction of N-Acetylglucosamine. <i>ACS Synthetic Biology</i> , 2018, 7, 2423-2435. | 1.9 | 49 |

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|----|---|-----|-----------|
| 19 | Synthetic N-terminal coding sequences for fine-tuning gene expression and metabolic engineering in <i>Bacillus subtilis</i> . <i>Metabolic Engineering</i> , 2019, 55, 131-141. | 3.6 | 48 |
| 20 | Microbial production of sialic acid and sialylated human milk oligosaccharides: Advances and perspectives. <i>Biotechnology Advances</i> , 2019, 37, 787-800. | 6.0 | 48 |
| 21 | A dynamic pathway analysis approach reveals a limiting futile cycle in N-acetylglucosamine overproducing <i>Bacillus subtilis</i> . <i>Nature Communications</i> , 2016, 7, 11933. | 5.8 | 45 |
| 22 | Metabolic engineering of carbon overflow metabolism of <i>Bacillus subtilis</i> for improved N-acetylglucosamine production. <i>Bioresource Technology</i> , 2018, 250, 642-649. | 4.8 | 44 |
| 23 | Synergistic improvement of N-acetylglucosamine production by engineering transcription factors and balancing redox cofactors. <i>Metabolic Engineering</i> , 2021, 67, 330-346. | 3.6 | 43 |
| 24 | Rewiring the Glucose Transportation and Central Metabolic Pathways for Overproduction of N-Acetylglucosamine in <i>Bacillus subtilis</i> . <i>Biotechnology Journal</i> , 2017, 12, 1700020. | 1.8 | 37 |
| 25 | Combinatorial synthetic pathway fine-tuning and comparative transcriptomics for metabolic engineering of <i>Raoultella ornithinolytica</i> BF60 to efficiently synthesize 2,5-furandicarboxylic acid. <i>Biotechnology and Bioengineering</i> , 2018, 115, 2148-2155. | 1.7 | 36 |
| 26 | De novo biosynthesis of rubusoside and rebaudiosides in engineered yeasts. <i>Nature Communications</i> , 2022, 13, . | 5.8 | 36 |
| 27 | Modular pathway engineering of key carbon precursor supply pathways for improved N-acetylneuraminic acid production in <i>Bacillus subtilis</i> . <i>Biotechnology and Bioengineering</i> , 2018, 115, 2217-2231. | 1.7 | 35 |
| 28 | Refactoring transcription factors for metabolic engineering. <i>Biotechnology Advances</i> , 2022, 57, 107935. | 6.0 | 35 |
| 29 | Facile controlled synthesis of core-shell/yolk-shell/hollow ZIF-67@Co-LDH/SiO ₂ via a self-template method. <i>Inorganic Chemistry Frontiers</i> , 2020, 7, 1643-1650. | 3.0 | 34 |
| 30 | Titrating bacterial growth and chemical biosynthesis for efficient N-acetylglucosamine and N-acetylneuraminic acid bioproduction. <i>Nature Communications</i> , 2020, 11, 5078. | 5.8 | 33 |
| 31 | A Zinc Coordination Polymer Sensor for Selective and Sensitive Detection of Doxycycline Based on Fluorescence Enhancement. <i>Crystal Growth and Design</i> , 2021, 21, 4971-4978. | 1.4 | 33 |
| 32 | Combinatorial promoter engineering of glucokinase and phosphoglucosomerase for improved N-acetylglucosamine production in <i>Bacillus subtilis</i> . <i>Bioresource Technology</i> , 2017, 245, 1093-1102. | 4.8 | 32 |
| 33 | Synergistic Rewiring of Carbon Metabolism and Redox Metabolism in Cytoplasm and Mitochondria of <i>Aspergillus oryzae</i> for Increased Malate Production. <i>ACS Synthetic Biology</i> , 2018, 7, 2139-2147. | 1.9 | 32 |
| 34 | Identification of microorganisms producing lactic acid during solid-state fermentation of Maotai flavour liquor. <i>Journal of the Institute of Brewing</i> , 2019, 125, 171-177. | 0.8 | 32 |
| 35 | Current advances in design and engineering strategies of industrial enzymes. <i>Systems Microbiology and Biomanufacturing</i> , 2021, 1, 15-23. | 1.5 | 32 |
| 36 | Toward metabolic engineering in the context of system biology and synthetic biology: advances and prospects. <i>Applied Microbiology and Biotechnology</i> , 2015, 99, 1109-1118. | 1.7 | 31 |

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|----|--|-----|-----------|
| 37 | Synthetic biology for future food: Research progress and future directions. <i>Future Foods</i> , 2021, 3, 100025. | 2.4 | 31 |
| 38 | An optimal glucose feeding strategy integrated with step-wise regulation of the dissolved oxygen level improves N-acetylglucosamine production in recombinant <i>Bacillus subtilis</i> . <i>Bioresource Technology</i> , 2015, 177, 387-392. | 4.8 | 30 |
| 39 | Creating an in vivo bifunctional gene expression circuit through an aptamer-based regulatory mechanism for dynamic metabolic engineering in <i>Bacillus subtilis</i> . <i>Metabolic Engineering</i> , 2019, 55, 179-190. | 3.6 | 29 |
| 40 | Cell Membrane and Electron Transfer Engineering for Improved Synthesis of Menaquinone-7 in <i>Bacillus subtilis</i> . <i>IScience</i> , 2020, 23, 100918. | 1.9 | 29 |
| 41 | Combinatorial metabolic engineering of <i>Escherichia coli</i> for de novo production of 2- α -fucosyllactose. <i>Bioresource Technology</i> , 2022, 351, 126949. | 4.8 | 27 |
| 42 | Metabolic engineering of <i>Corynebacterium glutamicum</i> S9114 based on whole-genome sequencing for efficient N-acetylglucosamine synthesis. <i>Synthetic and Systems Biotechnology</i> , 2019, 4, 120-129. | 1.8 | 26 |
| 43 | Metabolic engineering for the production of fat-soluble vitamins: advances and perspectives. <i>Applied Microbiology and Biotechnology</i> , 2020, 104, 935-951. | 1.7 | 25 |
| 44 | Metabolic engineering of <i>Escherichia coli</i> for the production of Lacto-N-neotetraose (LNnT). <i>Systems Microbiology and Biomanufacturing</i> , 2021, 1, 291-301. | 1.5 | 24 |
| 45 | Secretory Expression Fine-Tuning and Directed Evolution of Diacetylchitobiose Deacetylase by <i>Bacillus subtilis</i> . <i>Applied and Environmental Microbiology</i> , 2019, 85, . | 1.4 | 21 |
| 46 | Synthetic metabolic channel by functional membrane microdomains for compartmentalized flux control. <i>Metabolic Engineering</i> , 2020, 59, 106-118. | 3.6 | 21 |
| 47 | New synthetic biology tools for metabolic control. <i>Current Opinion in Biotechnology</i> , 2022, 76, 102724. | 3.3 | 21 |
| 48 | Engineered <i>Bacillus subtilis</i> for the de novo production of 2- α -fucosyllactose. <i>Microbial Cell Factories</i> , 2022, 21, . | 1.9 | 21 |
| 49 | Engineering diacetylchitobiose deacetylase from <i>Pyrococcus horikoshii</i> towards an efficient glucosamine production. <i>Bioresource Technology</i> , 2021, 334, 125241. | 4.8 | 20 |
| 50 | A pathway independent multi-modular ordered control system based on thermosensors and CRISPRi improves bioproduction in <i>Bacillus subtilis</i> . <i>Nucleic Acids Research</i> , 2022, 50, 6587-6600. | 6.5 | 20 |
| 51 | Lactic acid biosynthesis pathways and important genes of <i>Lactobacillus panis</i> L7 isolated from the Chinese liquor brewing microbiome. <i>Food Bioscience</i> , 2020, 36, 100627. | 2.0 | 18 |
| 52 | Combining CRISPR-Cpf1 and Recombineering Facilitates Fast and Efficient Genome Editing in <i>Escherichia coli</i> . <i>ACS Synthetic Biology</i> , 2022, 11, 1897-1907. | 1.9 | 17 |
| 53 | Systems metabolic engineering of <i>Bacillus subtilis</i> for efficient biosynthesis of 5-methyltetrahydrofolate. <i>Biotechnology and Bioengineering</i> , 2020, 117, 2116-2130. | 1.7 | 16 |
| 54 | Production of proteins and commodity chemicals using engineered <i>Bacillus subtilis</i> platform strain. <i>Essays in Biochemistry</i> , 2021, 65, 173-185. | 2.1 | 16 |

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|----|--|-----|-----------|
| 55 | Synthetic repetitive extragenic palindromic (REP) sequence as an efficient mRNA stabilizer for protein production and metabolic engineering in prokaryotic cells. <i>Biotechnology and Bioengineering</i> , 2019, 116, 5-18. | 1.7 | 15 |
| 56 | Genome sequencing and flavor compound biosynthesis pathway analyses of <i>Bacillus licheniformis</i> isolated from Chinese Maotai-flavor liquor-brewing microbiome. <i>Food Biotechnology</i> , 2020, 34, 193-211. | 0.6 | 14 |
| 57 | Applications of CRISPR in a Microbial Cell Factory: From Genome Reconstruction to Metabolic Network Reprogramming. <i>ACS Synthetic Biology</i> , 2020, 9, 2228-2238. | 1.9 | 14 |
| 58 | Multilayer Genetic Circuits for Dynamic Regulation of Metabolic Pathways. <i>ACS Synthetic Biology</i> , 2021, 10, 1587-1597. | 1.9 | 14 |
| 59 | Synthetic Biology Toolkits and Metabolic Engineering Applied in <i>Corynebacterium glutamicum</i> for Biomanufacturing. <i>ACS Synthetic Biology</i> , 2021, 10, 3237-3250. | 1.9 | 14 |
| 60 | Engineered yeast for efficient de novo synthesis of 7 α -dehydrocholesterol. <i>Biotechnology and Bioengineering</i> , 2022, 119, 1278-1289. | 1.7 | 14 |
| 61 | Combinatorial engineering for improved menaquinone-4 biosynthesis in <i>Bacillus subtilis</i> . <i>Enzyme and Microbial Technology</i> , 2020, 141, 109652. | 1.6 | 13 |
| 62 | Developing rapid growing <i>Bacillus subtilis</i> for improved biochemical and recombinant protein production. <i>Metabolic Engineering Communications</i> , 2020, 11, e00141. | 1.9 | 12 |
| 63 | Biocatalytic Production of Glucosamine from N-Acetylglucosamine by Diacetylchitobiose Deacetylase. <i>Journal of Microbiology and Biotechnology</i> , 2018, 28, 1850-1858. | 0.9 | 12 |
| 64 | Modular remodeling of sterol metabolism for overproduction of 7-dehydrocholesterol in engineered yeast. <i>Bioresource Technology</i> , 2022, 360, 127572. | 4.8 | 12 |
| 65 | Engineering of Synthetic Multiplexed Pathways for High-Level N-Acetylneuraminic Acid Bioproduction. <i>Journal of Agricultural and Food Chemistry</i> , 2021, 69, 14868-14877. | 2.4 | 11 |
| 66 | Combinatorial Fine-Tuning of GNA1 and GlmS Expression by 5 ^{â€} TM-Terminus Fusion Engineering Leads to Overproduction of N-Acetylglucosamine in <i>Bacillus subtilis</i> . <i>Biotechnology Journal</i> , 2019, 14, 1800264. | 1.8 | 10 |
| 67 | Combinatorial Methylerythritol Phosphate Pathway Engineering and Process Optimization for Increased Menaquinone-7 Synthesis in <i>Bacillus subtilis</i> . <i>Journal of Microbiology and Biotechnology</i> , 2020, 30, 762-769. | 0.9 | 10 |
| 68 | Pathway Engineering of <i>Bacillus subtilis</i> for Enhanced N-Acetylneuraminic Acid Production via Whole-Cell Biocatalysis. <i>Biotechnology Journal</i> , 2019, 14, e1800682. | 1.8 | 9 |
| 69 | Towards next-generation model microorganism chassis for biomanufacturing. <i>Applied Microbiology and Biotechnology</i> , 2020, 104, 9095-9108. | 1.7 | 9 |
| 70 | Development of a DNA double-strand break-free base editing tool in <i>Corynebacterium glutamicum</i> for genome editing and metabolic engineering. <i>Metabolic Engineering Communications</i> , 2020, 11, e00135. | 1.9 | 9 |
| 71 | High level production of diacetylchitobiose deacetylase by refactoring genetic elements and cellular metabolism. <i>Bioresource Technology</i> , 2021, 341, 125836. | 4.8 | 9 |
| 72 | Overexpression of HMGA1 confers radioresistance by transactivating RAD51 in cholangiocarcinoma. <i>Cell Death Discovery</i> , 2021, 7, 322. | 2.0 | 9 |

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|----|--|-----|-----------|
| 73 | Engineered Microbial Cell Factories for Sustainable Production of L-Lactic Acid: A Critical Review. <i>Fermentation</i> , 2022, 8, 279. | 1.4 | 9 |
| 74 | Effects of carbon sources and feeding strategies on heparosan production by <i>Escherichia coli</i> K5. <i>Bioprocess and Biosystems Engineering</i> , 2012, 35, 1209-1218. | 1.7 | 8 |
| 75 | Development and optimization of <i>N</i> -acetylneuraminic acid biosensors in <i>Bacillus subtilis</i> . <i>Biotechnology and Applied Biochemistry</i> , 2020, 67, 693-705. | 1.4 | 8 |
| 76 | The elucidation of phosphosugar stress response in <i>Bacillus subtilis</i> guides strain engineering for high <i>N</i> -acetylglucosamine production. <i>Biotechnology and Bioengineering</i> , 2021, 118, 383-396. | 1.7 | 8 |
| 77 | Recent advances and prospects in purification and heterologous expression of lactoferrin. , 2022, 1, 58-67. | | 8 |
| 78 | Efficient Removal of U(VI) Using Functionalized Hollow Mesoporous Silica Nanospheres. <i>ChemistrySelect</i> , 2019, 4, 7396-7402. | 0.7 | 7 |
| 79 | Cell-free synthesis system-assisted pathway bottleneck diagnosis and engineering in <i>Bacillus subtilis</i> . <i>Synthetic and Systems Biotechnology</i> , 2020, 5, 131-136. | 1.8 | 7 |
| 80 | Food synthetic biology-driven protein supply transition: From animal-derived production to microbial fermentation. <i>Chinese Journal of Chemical Engineering</i> , 2021, 30, 29-36. | 1.7 | 7 |
| 81 | Engineering a ComA Quorum-Sensing circuit to dynamically control the production of Menaquinone-4 in <i>Bacillus subtilis</i> . <i>Enzyme and Microbial Technology</i> , 2021, 147, 109782. | 1.6 | 7 |
| 82 | Inducible Population Quality Control of Engineered <i>Bacillus subtilis</i> for Improved <i>N</i> -Acetylneuraminic Acid Biosynthesis. <i>ACS Synthetic Biology</i> , 2021, 10, 2197-2209. | 1.9 | 7 |
| 83 | Model-driven design of synthetic N-terminal coding sequences for regulating gene expression in yeast and bacteria. <i>Biotechnology Journal</i> , 2022, 17, e2100655. | 1.8 | 7 |
| 84 | Combinatorial pathway engineering of <i>Bacillus subtilis</i> for production of structurally defined and homogeneous chitooligosaccharides. <i>Metabolic Engineering</i> , 2022, 70, 55-66. | 3.6 | 7 |
| 85 | Construction of Multiscale Genome-Scale Metabolic Models: Frameworks and Challenges. <i>Biomolecules</i> , 2022, 12, 721. | 1.8 | 7 |
| 86 | Quantitation of RNA by a fluorometric method using the SYTO RNASelect stain. <i>Analytical Biochemistry</i> , 2020, 606, 113857. | 1.1 | 6 |
| 87 | Engineering of Biosynthesis Pathway and NADPH Supply for Improved L-5-Methyltetrahydrofolate Production by <i>Lactococcus lactis</i> . <i>Journal of Microbiology and Biotechnology</i> , 2021, 31, 154-162. | 0.9 | 6 |
| 88 | Chitin deacetylase: from molecular structure to practical applications. <i>Systems Microbiology and Biomanufacturing</i> , 2022, 2, 271-284. | 1.5 | 6 |
| 89 | Metabolomics-Driven Elucidation of Interactions between <i>Saccharomyces cerevisiae</i> and <i>Lactobacillus panis</i> from Chinese Baijiu Fermentation Microbiome. <i>Fermentation</i> , 2022, 8, 33. | 1.4 | 6 |
| 90 | Combinatorial Metabolic Engineering and Enzymatic Catalysis Enable Efficient Production of Colanic Acid. <i>Microorganisms</i> , 2022, 10, 877. | 1.6 | 5 |

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|-----|---|-----|-----------|
| 91 | Synthetic biology-driven microbial production of folates: Advances and perspectives. <i>Bioresource Technology</i> , 2021, 324, 124624. | 4.8 | 4 |
| 92 | Enzymatic production of N-acetylneuraminic acid: advances and perspectives. <i>Systems Microbiology and Biomanufacturing</i> , 2022, 2, 130-146. | 1.5 | 4 |
| 93 | Semi-rational design of L-amino acid deaminase for production of pyruvate and d-alanine by <i>Escherichia coli</i> whole-cell biocatalyst. <i>Amino Acids</i> , 2021, 53, 1361-1371. | 1.2 | 4 |
| 94 | Enhanced 2,5-Furandicarboxylic Acid (FDCA) Production in BF60 by Manipulation of the Key Genes in FDCA Biosynthesis Pathway. <i>Journal of Microbiology and Biotechnology</i> , 2018, 28, 1999-2008. | 0.9 | 4 |
| 95 | High-Level 5-Methyltetrahydrofolate Bioproduction in <i>Bacillus subtilis</i> by Combining Modular Engineering and Transcriptomics-Guided Global Metabolic Regulation. <i>Journal of Agricultural and Food Chemistry</i> , 2022, 70, 5849-5859. | 2.4 | 4 |
| 96 | Microbiome analysis and random forest algorithm-aided identification of the diacetyl-producing microorganisms in the stacking fermentation stage of Maotai-flavor liquor production. <i>Food Biotechnology</i> , 2019, 33, 338-352. | 0.6 | 3 |
| 97 | Efficient Bioproduction of Human Milk Alpha-Lactalbumin in <i>Komagataella phaffii</i> . <i>Journal of Agricultural and Food Chemistry</i> , 2022, 70, 2664-2672. | 2.4 | 3 |
| 98 | Systems biology, synthetic biology, and metabolic engineering. , 2020, , 1-31. | | 2 |
| 99 | Systems and synthetic metabolic engineering for production of biochemicals. , 2020, , 207-235. | | 2 |
| 100 | Refactoring and optimization of metabolic network. , 2020, , 77-105. | | 2 |
| 101 | Biosynthesis of Guanidinoacetate by <i>Bacillus subtilis</i> Whole-Cell Catalysis. <i>Fermentation</i> , 2022, 8, 116. | 1.4 | 2 |
| 102 | Biochemical engineering in China. <i>Reviews in Chemical Engineering</i> , 2019, 35, 929-993. | 2.3 | 1 |
| 103 | Screening, Optimization and Assembly of Key Pathway Enzymes in Metabolic Engineering. , 2019, , 167-176. | | 1 |
| 104 | A CRISPR-Cas12a-Based Assay for Efficient Quantification of <i>Lactobacillus panis</i> in Chinese Baijiu Brewing Microbiome. <i>Fermentation</i> , 2022, 8, 88. | 1.4 | 1 |
| 105 | Cover Image, Volume 116, Number 1, January 2019. <i>Biotechnology and Bioengineering</i> , 2019, 116, ii. | 1.7 | 0 |
| 106 | Nutraceuticals Definition, Kinds and Applications. , 2019, , 1-7. | | 0 |
| 107 | Microbial Production of Oligosaccharides and Polysaccharides. , 2019, , 75-91. | | 0 |