

Matthew Wook Chang

List of Publications by Citations

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140
papers

5,692
citations

41
h-index

72
g-index

149
ext. papers

6,735
ext. citations

7.8
avg. IF

5.92
L-index

#	Paper	IF	Citations
140	A polycationic antimicrobial and biocompatible hydrogel with microbe membrane suctioning ability. <i>Nature Materials</i> , 2011 , 10, 149-56	27	588
139	Sharper and faster "nano darts" kill more bacteria: a study of antibacterial activity of individually dispersed pristine single-walled carbon nanotube. <i>ACS Nano</i> , 2009 , 3, 3891-902	16.7	420
138	Engineering microbes to sense and eradicate <i>Pseudomonas aeruginosa</i> , a human pathogen. <i>Molecular Systems Biology</i> , 2011 , 7, 521	12.2	245
137	Engineered probiotic <i>Escherichia coli</i> can eliminate and prevent <i>Pseudomonas aeruginosa</i> gut infection in animal models. <i>Nature Communications</i> , 2017 , 8, 15028	17.4	205
136	Hollow fiber membrane decorated with Ag/MWNTs: toward effective water disinfection and biofouling control. <i>ACS Nano</i> , 2011 , 5, 10033-40	16.7	193
135	A photopolymerized antimicrobial hydrogel coating derived from epsilon-poly-L-lysine. <i>Biomaterials</i> , 2011 , 32, 2704-12	15.6	173
134	Deposition of Silver Nanoparticles on Multiwalled Carbon Nanotubes Grafted with Hyperbranched Poly(amidoamine) and Their Antimicrobial Effects. <i>Journal of Physical Chemistry C</i> , 2008 , 112, 18754-18759	3.8	138
133	High potency and broad-spectrum antimicrobial peptides synthesized via ring-opening polymerization of alpha-aminoacid-N-carboxyanhydrides. <i>Biomacromolecules</i> , 2010 , 11, 60-7	6.9	125
132	Global transcriptome analysis of <i>Staphylococcus aureus</i> response to hydrogen peroxide. <i>Journal of Bacteriology</i> , 2006 , 188, 1648-59	3.5	120
131	Reprogramming microbes to be pathogen-seeking killers. <i>ACS Synthetic Biology</i> , 2014 , 3, 228-37	5.7	118
130	The Fungal Mycobiome and Its Interaction with Gut Bacteria in the Host. <i>International Journal of Molecular Sciences</i> , 2017 , 18,	6.3	117
129	Engineered commensal microbes for diet-mediated colorectal-cancer chemoprevention. <i>Nature Biomedical Engineering</i> , 2018 , 2, 27-37	19	106
128	Improvement of biomass properties by pretreatment with ionic liquids for bioconversion process. <i>Bioresource Technology</i> , 2012 , 111, 453-9	11	98
127	Microbiome engineering: Current applications and its future. <i>Biotechnology Journal</i> , 2017 , 12, 1600099	5.6	95
126	Covalent immobilization of nisin on multi-walled carbon nanotubes: superior antimicrobial and anti-biofilm properties. <i>Nanoscale</i> , 2011 , 3, 1874-80	7.7	92
125	Building a global alliance of biofoundries. <i>Nature Communications</i> , 2019 , 10, 2040	17.4	91
124	Antibacterial efficacy of inhalable levofloxacin-loaded polymeric nanoparticles against <i>E. coli</i> biofilm cells: the effect of antibiotic release profile. <i>Pharmaceutical Research</i> , 2010 , 27, 1597-609	4.5	91

123	Transporter engineering for improved tolerance against alkane biofuels in <i>Saccharomyces cerevisiae</i> . <i>Biotechnology for Biofuels</i> , 2013 , 6, 21	7.8	76
122	A Two-Layer Gene Circuit for Decoupling Cell Growth from Metabolite Production. <i>Cell Systems</i> , 2016 , 3, 133-143	10.6	70
121	Microbial tolerance engineering toward biochemical production: from lignocellulose to products. <i>Current Opinion in Biotechnology</i> , 2014 , 29, 99-106	11.4	70
120	Designer probiotics for the prevention and treatment of human diseases. <i>Current Opinion in Chemical Biology</i> , 2017 , 40, 8-16	9.7	67
119	Over-expression GbERF2 transcription factor in tobacco enhances brown spots disease resistance by activating expression of downstream genes. <i>Gene</i> , 2007 , 391, 80-90	3.8	65
118	The roles of lipid in anti-biofilm efficacy of lipid-polymer hybrid nanoparticles encapsulating antibiotics. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2011 , 389, 158-165	5.1	64
117	Metabolic engineering of <i>Saccharomyces cerevisiae</i> for the overproduction of short branched-chain fatty acids. <i>Metabolic Engineering</i> , 2016 , 34, 36-43	9.7	61
116	Site specific immobilization of a potent antimicrobial peptide onto silicone catheters: evaluation against urinary tract infection pathogens. <i>Journal of Materials Chemistry B</i> , 2014 , 2, 1706-1716	7.3	60
115	Transcriptome response to alkane biofuels in <i>Saccharomyces cerevisiae</i> : identification of efflux pumps involved in alkane tolerance. <i>Biotechnology for Biofuels</i> , 2013 , 6, 95	7.8	60
114	Combinatorial metabolic engineering of <i>Saccharomyces cerevisiae</i> for terminal alkene production. <i>Metabolic Engineering</i> , 2015 , 31, 53-61	9.7	59
113	Ultra-Sensitive Serial Profiling of SARS-CoV-2 Antigens and Antibodies in Plasma to Understand Disease Progression in COVID-19 Patients with Severe Disease. <i>Clinical Chemistry</i> , 2020 , 66, 1562-1572	5.5	59
112	Comparative global transcription analysis of sodium hypochlorite, peracetic acid, and hydrogen peroxide on <i>Pseudomonas aeruginosa</i> . <i>Applied Microbiology and Biotechnology</i> , 2007 , 76, 1093-105	5.7	53
111	Engineering a riboswitch-based genetic platform for the self-directed evolution of acid-tolerant phenotypes. <i>Nature Communications</i> , 2017 , 8, 411	17.4	52
110	Novel short antibacterial and antifungal peptides with low cytotoxicity: Efficacy and action mechanisms. <i>Biochemical and Biophysical Research Communications</i> , 2010 , 398, 594-600	3.4	52
109	Antibacterial efficacy of inhalable antibiotic-encapsulated biodegradable polymeric nanoparticles against <i>E. coli</i> biofilm cells. <i>Journal of Biomedical Nanotechnology</i> , 2010 , 6, 391-403	4	51
108	Microbial engineering strategies to improve cell viability for biochemical production. <i>Biotechnology Advances</i> , 2013 , 31, 903-14	17.8	48
107	Hildebrand solubility parameters of ionic liquids: Effects of ionic liquid type, temperature and DMA fraction in ionic liquid. <i>Chemical Engineering Journal</i> , 2012 , 213, 356-362	14.7	47
106	A predicted S-type pyocin shows a bactericidal activity against clinical <i>Pseudomonas aeruginosa</i> isolates through membrane damage. <i>FEBS Letters</i> , 2010 , 584, 3354-8	3.8	47

105	Genome-scale metabolic modeling and in silico analysis of lipid accumulating yeast <i>Candida tropicalis</i> for dicarboxylic acid production. <i>Biotechnology and Bioengineering</i> , 2016 , 113, 1993-2004	4.9	45
104	Whole-cell biocatalytic and de novo production of alkanes from free fatty acids in <i>Saccharomyces cerevisiae</i> . <i>Biotechnology and Bioengineering</i> , 2017 , 114, 232-237	4.9	42
103	Synthetic genetic circuits for programmable biological functionalities. <i>Biotechnology Advances</i> , 2019 , 37, 107393	17.8	42
102	Toxicogenomic analysis of sodium hypochlorite antimicrobial mechanisms in <i>Pseudomonas aeruginosa</i> . <i>Applied Microbiology and Biotechnology</i> , 2007 , 74, 176-85	5.7	42
101	The imminent role of protein engineering in synthetic biology. <i>Biotechnology Advances</i> , 2012 , 30, 541-9	17.8	41
100	Production of Fatty Acid-derived valuable chemicals in synthetic microbes. <i>Frontiers in Bioengineering and Biotechnology</i> , 2014 , 2, 78	5.8	41
99	Bacterial XylRs and synthetic promoters function as genetically encoded xylose biosensors in <i>Saccharomyces cerevisiae</i> . <i>Biotechnology Journal</i> , 2015 , 10, 315-22	5.6	40
98	Encapsulation of Autoinducer Sensing Reporter Bacteria in Reinforced Alginate-Based Microbeads. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 22321-22331	9.5	39
97	Reprogramming Probiotic <i>Lactobacillus reuteri</i> as a Biosensor for <i>Staphylococcus aureus</i> Derived AIP-I Detection. <i>ACS Synthetic Biology</i> , 2018 , 7, 1229-1237	5.7	38
96	Microscale Bioreactors for in situ characterization of GI epithelial cell physiology. <i>Scientific Reports</i> , 2017 , 7, 12515	4.9	36
95	Engineering probiotics for therapeutic applications: recent examples and translational outlook. <i>Current Opinion in Biotechnology</i> , 2020 , 65, 171-179	11.4	36
94	Development and characterization of AND-gate dynamic controllers with a modular synthetic GAL1 core promoter in <i>Saccharomyces cerevisiae</i> . <i>Biotechnology and Bioengineering</i> , 2014 , 111, 144-51	4.9	36
93	Cefalexin-immobilized multi-walled carbon nanotubes show strong antimicrobial and anti-adhesion properties. <i>Chemical Engineering Science</i> , 2012 , 84, 552-556	4.4	36
92	Sequence analysis of GDSL lipase gene family in <i>Arabidopsis thaliana</i> . <i>Pakistan Journal of Biological Sciences</i> , 2008 , 11, 763-7	0.8	36
91	Molecular characterization of polycyclic aromatic hydrocarbon (PAH)-degrading methanogenic communities. <i>Biotechnology Progress</i> , 2005 , 21, 682-8	2.8	35
90	Molecular cloning, expression profiling and functional analysis of a DXR gene encoding 1-deoxy-D-xylulose 5-phosphate reductoisomerase from <i>Camptotheca acuminata</i> . <i>Journal of Plant Physiology</i> , 2008 , 165, 203-13	3.6	35
89	Genetic Biosensor Design for Natural Product Biosynthesis in Microorganisms. <i>Trends in Biotechnology</i> , 2020 , 38, 797-810	15.1	34
88	Synthetic biology toolkits and applications in <i>Saccharomyces cerevisiae</i> . <i>Biotechnology Advances</i> , 2018 , 36, 1870-1881	17.8	34

87	The absence of the luxS gene increases swimming motility and flagella synthesis in Escherichia coli K12. <i>Biochemical and Biophysical Research Communications</i> , 2010 , 401, 521-6	3.4	34
86	Toxicogenomic response of Staphylococcus aureus to peracetic acid. <i>Environmental Science & Technology</i> , 2006 , 40, 5124-31	10.3	34
85	Metabolic engineering of Saccharomyces cerevisiae for production of fatty acid short- and branched-chain alkyl esters biodiesel. <i>Biotechnology for Biofuels</i> , 2015 , 8, 177	7.8	33
84	Microarray analysis of toxicogenomic effects of peracetic acid on Pseudomonas aeruginosa. <i>Environmental Science & Technology</i> , 2005 , 39, 5893-9	10.3	33
83	Evaluation of Metabolic and Synaptic Dysfunction Hypotheses of Alzheimer's Disease (AD): A Meta-Analysis of CSF Markers. <i>Current Alzheimer Research</i> , 2018 , 15, 164-181	3	31
82	A platform of genetically engineered bacteria as vehicles for localized delivery of therapeutics: Toward applications for Crohn's disease. <i>Bioengineering and Translational Medicine</i> , 2018 , 3, 209-221	14.8	30
81	Reprogrammable microbial cell-based therapeutics against antibiotic-resistant bacteria. <i>Drug Resistance Updates</i> , 2016 , 27, 59-71	23.2	28
80	Immunomodulation as Therapy for Fungal Infection: Are We Closer?. <i>Frontiers in Microbiology</i> , 2018 , 9, 1612	5.7	28
79	Bacterial FadR and synthetic promoters function as modular fatty acid sensor- regulators in Saccharomyces cerevisiae. <i>Engineering in Life Sciences</i> , 2013 , 13, 456-463	3.4	28
78	Synthetic Biology Toolkits for Metabolic Engineering of Cyanobacteria. <i>Biotechnology Journal</i> , 2019 , 14, e1800496	5.6	27
77	Identification and reconstitution of genetic regulatory networks for improved microbial tolerance to isooctane. <i>Molecular BioSystems</i> , 2012 , 8, 1350-8		27
76	Systems-level analysis of Escherichia coli response to silver nanoparticles: the roles of anaerobic respiration in microbial resistance. <i>Biochemical and Biophysical Research Communications</i> , 2012 , 424, 657-62	3.4	27
75	Molecular characterization of anaerobic microbial communities from benzene-degrading sediments under methanogenic conditions. <i>Biotechnology Progress</i> , 2005 , 21, 1789-94	2.8	27
74	Targeted Approaches for In Situ Gut Microbiome Manipulation. <i>Genes</i> , 2018 , 9,	4.2	26
73	Microarray analysis of toxicogenomic effects of triclosan on Staphylococcus aureus. <i>Applied Microbiology and Biotechnology</i> , 2008 , 78, 695-707	5.7	25
72	Isolation and characterization of an ERF-like gene from Gossypium barbadense. <i>Plant Science</i> , 2004 , 167, 1383-1389	5.3	25
71	Strain improvement and process development for biobutanol production. <i>Recent Patents on Biotechnology</i> , 2009 , 3, 202-10	2.2	23
70	Vaccinia-related kinase 1 is required for the maintenance of undifferentiated spermatogonia in mouse male germ cells. <i>PLoS ONE</i> , 2010 , 5, e15254	3.7	23

69	Engineering <i>Saccharomyces cerevisiae</i> to produce odd chain-length fatty alcohols. <i>Biotechnology and Bioengineering</i> , 2016 , 113, 842-51	4.9	23
68	Overexpression of GbERF confers alteration of ethylene-responsive gene expression and enhanced resistance to <i>Pseudomonas syringae</i> in transgenic tobacco. <i>Journal of Biosciences</i> , 2006 , 31, 255-63	2.3	22
67	Toxicogenomic response to chlorination includes induction of major virulence genes in <i>Staphylococcus aureus</i> . <i>Environmental Science & Technology</i> , 2007 , 41, 7570-5	10.3	21
66	A time-course transcriptome analysis of <i>Escherichia coli</i> with direct electrochemistry behavior in microbial fuel cells. <i>Chemical Communications</i> , 2009 , 6183-5	5.8	20
65	Engineering transcription factors to improve tolerance against alkane biofuels in <i>Saccharomyces cerevisiae</i> . <i>Biotechnology for Biofuels</i> , 2015 , 8, 231	7.8	16
64	Engineering <i>Yarrowia lipolytica</i> towards food waste bioremediation: Production of fatty acid ethyl esters from vegetable cooking oil. <i>Journal of Bioscience and Bioengineering</i> , 2020 , 129, 31-40	3.3	16
63	Engineering microbes for targeted strikes against human pathogens. <i>Cellular and Molecular Life Sciences</i> , 2018 , 75, 2719-2733	10.3	15
62	Tweak to Treat: Reprogramming Bacteria for Cancer Treatment. <i>Trends in Cancer</i> , 2021 , 7, 447-464	12.5	15
61	Anhydrous polymer-based coating with sustainable controlled release functionality for facile, efficacious impregnation, and delivery of antimicrobial peptides. <i>Biotechnology and Bioengineering</i> , 2018 , 115, 2000-2012	4.9	14
60	Targeting FK506 binding proteins to fight malarial and bacterial infections: current advances and future perspectives. <i>Current Medicinal Chemistry</i> , 2011 , 18, 1874-89	4.3	14
59	Engineering commensal bacteria to rewire host-microbiome interactions. <i>Current Opinion in Biotechnology</i> , 2020 , 62, 116-122	11.4	13
58	One-pot approach for examining the DNA methylation patterns using an engineered methyl-probe. <i>Biosensors and Bioelectronics</i> , 2014 , 58, 333-7	11.8	12
57	Molecular characterization of surfactant-driven microbial community changes in anaerobic phenanthrene-degrading cultures under methanogenic conditions. <i>Biotechnology Letters</i> , 2008 , 30, 1595-601	3	12
56	Isolated Reporter Bacteria in Supramolecular Hydrogel Microwell Arrays. <i>Langmuir</i> , 2017 , 33, 7799-7809	4	11
55	Synthetic yeast genome reveals its versatility. <i>Nature</i> , 2018 , 557, 647-648	50.4	11
54	Oleosin fusion expression systems for the production of recombinant proteins. <i>Biologia (Poland)</i> , 2007 , 62, 119-123	1.5	11
53	Systems-level characterization and engineering of oxidative stress tolerance in <i>Escherichia coli</i> under anaerobic conditions. <i>Molecular BioSystems</i> , 2013 , 9, 285-95		10
52	Isolation of a novel lipase gene from <i>Serratia liquefaciens</i> S33 DB-1, functional expression in <i>Pichia pastoris</i> and its properties. <i>Molecular Biotechnology</i> , 2008 , 38, 99-107	3	10

51	Genetic Engineering of an Unconventional Yeast for Renewable Biofuel and Biochemical Production. <i>Journal of Visualized Experiments</i> , 2016 ,	1.6	9
50	Autoinducer Sensing Microarrays by Reporter Bacteria Encapsulated in Hybrid Supramolecular-Polysaccharide Hydrogels. <i>Macromolecular Bioscience</i> , 2017 , 17, 1700176	5.5	9
49	Applying the design-build-test paradigm in microbiome engineering. <i>Current Opinion in Biotechnology</i> , 2017 , 48, 85-93	11.4	8
48	Toolkit Development for Cyanogenic and Gold Biorecovery Chassis. <i>ACS Synthetic Biology</i> , 2020 , 9, 953-967	5.7	8
47	Designing a synthetic genetic circuit that enables cell density-dependent auto-regulatory lysis for macromolecule release. <i>Chemical Engineering Science</i> , 2013 , 103, 29-35	4.4	8
46	Isolation and bioinformatics analyses of a COR413-like gene from <i>Gossypium barbadense</i> . <i>Acta Physiologiae Plantarum</i> , 2007 , 29, 1-9	2.6	8
45	An oleaginous yeast platform for renewable 1-butanol synthesis based on a heterologous CoA-dependent pathway and an endogenous pathway. <i>Microbial Cell Factories</i> , 2018 , 17, 166	6.4	8
44	Matrix-immobilized yeast for large-scale production of recombinant human lactoferrin. <i>MedChemComm</i> , 2015 , 6, 486-491	5	7
43	A predicted immunity protein confers resistance to pyocin S5 in a sensitive strain of <i>Pseudomonas aeruginosa</i> . <i>ChemBioChem</i> , 2013 , 14, 2444-6	3.8	7
42	iTRAQ-coupled two-dimensional liquid chromatography/tandem mass spectrometric analysis of protein profile in <i>Escherichia coli</i> incubated with human neutrophil peptide 1--potential in antimicrobial strategy. <i>Rapid Communications in Mass Spectrometry</i> , 2010 , 24, 2787-90	2.2	7
41	Meta-Omics- and Metabolic Modeling-Assisted Deciphering of Human Microbiota Metabolism. <i>Biotechnology Journal</i> , 2019 , 14, e1800445	5.6	6
40	Rewriting the Metabolic Blueprint: Advances in Pathway Diversification in Microorganisms. <i>Frontiers in Microbiology</i> , 2018 , 9, 155	5.7	6
39	Characterization of a quorum sensing device for synthetic biology design: Experimental and modeling validation. <i>Chemical Engineering Science</i> , 2013 , 103, 91-99	4.4	6
38	Analysis of <i>Arabidopsis</i> genes encoding putative class III lipases. <i>Journal of Plant Biochemistry and Biotechnology</i> , 2012 , 21, 261-267	1.6	5
37	The Divergent Immunomodulatory Effects of Short Chain Fatty Acids and Medium Chain Fatty Acids. <i>International Journal of Molecular Sciences</i> , 2021 , 22,	6.3	5
36	Development of a polymer-based antimicrobial coating for efficacious urinary catheter protection. <i>Biotechnology Notes</i> , 2021 , 2, 1-10	1.3	5
35	A simple and effective plating method to screen polycyclic aromatic hydrocarbon-degrading bacteria under various redox conditions. <i>Applied Microbiology and Biotechnology</i> , 2010 , 88, 291-7	5.7	4
34	Mechanism-Driven Metabolic Engineering for Bio-Based Production of Free -Lipoic Acid in Mitochondria. <i>Frontiers in Bioengineering and Biotechnology</i> , 2020 , 8, 965	5.8	3

33	Ectopic overexpression of a cotton plastidial Na transporter GhBASS5 impairs salt tolerance in Arabidopsis via increasing Na loading and accumulation. <i>Planta</i> , 2020 , 252, 41	4.7	3
32	Development of a Proline-Based Selection System for Reliable Genetic Engineering in Chinese Hamster Ovary Cells. <i>ACS Synthetic Biology</i> , 2020 , 9, 1864-1872	5.7	2
31	Analysis of the RNAi targeting FAD2 gene on oleic acid composition in transgenic plants of Brassica napus. <i>African Journal of Microbiology Research</i> , 2011 , 5, 817-822	0.5	2
30	Engineering an Alcohol-Forming Fatty Acyl-CoA Reductase for Aldehyde and Hydrocarbon Biosynthesis in. <i>Frontiers in Bioengineering and Biotechnology</i> , 2020 , 8, 585935	5.8	2
29	Future trends in synthetic biology in Asia. <i>Genetics & Genomics Next</i> , 2021 , 2, e10038	1.2	2
28	Heterologous expression of cyanobacterial gas vesicle proteins in <i>Saccharomyces cerevisiae</i> . <i>Biotechnology Journal</i> , 2021 , 16, e2100059	5.6	2
27	Phage-boosted chemotherapy. <i>Nature Biomedical Engineering</i> , 2019 , 3, 680-681	19	1
26	Isolation and characterization of a class III homeodomain-leucine zipper-like gene from <i>Gossypium barbadense</i> . <i>DNA Sequence</i> , 2006 , 17, 334-41		1
25	Synthetic biology: at the crossroads of genetic engineering and human therapeutics-a Keystone Symposia report. <i>Annals of the New York Academy of Sciences</i> , 2021 ,	6.5	1
24	Therapeutic microbes for infectious disease. <i>Methods in Molecular Biology</i> , 2014 , 1151, 117-33	1.4	1
23	Synthetic Biology for Biofuels in <i>Saccharomyces cerevisiae</i> 2016 , 1-22		1
22	Synthetic Enzymology and the Fountain of Youth: Repurposing Biology for Longevity. <i>ACS Omega</i> , 2018 , 3, 11050-11061	3.9	1
21	Design and fabrication of field-deployable microbial biosensing devices.. <i>Current Opinion in Biotechnology</i> , 2022 , 76, 102731	11.4	1
20	Engineered microbial systems for advanced drug delivery. <i>Advanced Drug Delivery Reviews</i> , 2022 , 187, 114364	18.5	1
19	Potential use of microbial engineering in single-cell protein production. <i>Current Opinion in Biotechnology</i> , 2022 , 76, 102740	11.4	1
18	A novel synchronization approach using synthetic magnetic. <i>Synthetic and Systems Biotechnology</i> , 2019 , 4, 130-131	4.2	0
17	Biosynthesis of Commodity Chemicals From Oil Palm Empty Fruit Bunch Lignin. <i>Frontiers in Microbiology</i> , 2021 , 12, 663642	5.7	0
16	Engineered probiotics modulate the endocannabinoid system. <i>Biotechnology Notes</i> , 2021 , 2, 33-38	1.3	0

- 15 Living building blocks.. *Nature Materials*, **2022**, 21, 382-383 27 ○
- 14 Transporter-Driven Engineering of a Genetic Biosensor for the Detection and Production of Short-Branched Chain Fatty Acids in .. *Frontiers in Bioengineering and Biotechnology*, **2022**, 10, 838732 5.8 ○
- 13 Drug Targeting of the Human Microbiome **2017**, 191-214
- 12 Synthetic Biology for Biofuels in *Saccharomyces cerevisiae* **2017**, 133-154
- 11 Toxicogenomic Response of *Staphylococcus aureus* to Triclosan. *FASEB Journal*, **2008**, 22, 1023.1 0.9
- 10 Synthetic Biology for Biofuels in *Saccharomyces cerevisiae* **2017**, 1-22
- 9 Transcription Factor-Based Biosensors and Their Application in Microbiome Engineering **2022**, 277-304
- 8 Maternal Microbiota as a Therapeutic Target **2022**, 233-275
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- 6 Microbiome Engineering for Metabolic Disorders **2022**, 47-91
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- 4 Diet-Based Microbiome Modulation: You are What You Eat **2022**, 1-46
- 3 Modulating Residence Time and Biogeography of Engineered Probiotics **2022**, 121-136
- 2 Principles, Tools, and Applications of Synthetic Consortia Toward Microbiome Engineering **2022**, 195-218
- 1 Microbiome Engineering for Next-Generation Precision Agriculture **2022**, 137-153