Mattheos A G Koffas

List of Publications by Year
in descending order

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186 papers	11,171 citations	26630 56 h-index	34986 98 g-index
197 all docs	197 docs citations	197 times ranked	7532 citing authors

#	Article	IF	Citations
1	Metabolic Burden: Cornerstones in Synthetic Biology and Metabolic Engineering Applications. Trends in Biotechnology, 2016, 34, 652-664.	9.3	463
2	Improving fatty acids production by engineering dynamic pathway regulation and metabolic control. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 11299-11304.	7.1	423
3	Modular optimization of multi-gene pathways for fatty acids production in E. coli. Nature Communications, 2013, 4, 1409.	12.8	405
4	Genome-scale metabolic network modeling results in minimal interventions that cooperatively force carbon flux towards malonyl-CoA. Metabolic Engineering, 2011, 13, 578-587.	7.0	300
5	Optimization of a heterologous pathway for the production of flavonoids from glucose. Metabolic Engineering, 2011, 13, 392-400.	7.0	276
6	Engineering Central Metabolic Pathways for High-Level Flavonoid Production in Escherichia coli. Applied and Environmental Microbiology, 2007, 73, 3877-3886.	3.1	239
7	High-Yield Resveratrol Production in Engineered Escherichia coli. Applied and Environmental Microbiology, 2011, 77, 3451-3460.	3.1	231
8	ePathBrick: A Synthetic Biology Platform for Engineering Metabolic Pathways in <i>E. coli</i>. ACS Synthetic Biology, 2012, 1, 256-266.	3.8	230
9	Strain Improvement of Recombinant <i>Escherichia coli</i> for Efficient Production of Plant Flavonoids. Molecular Pharmaceutics, 2008, 5, 257-265.	4.6	223
10	Microbial production of natural and non-natural flavonoids: Pathway engineering, directed evolution and systems/synthetic biology. Biotechnology Advances, 2016, 34, 634-662.	11.7	214
11	Experimental and computational optimization of an Escherichia coli co-culture for the efficient production of flavonoids. Metabolic Engineering, 2016, 35, 55-63.	7.0	210
12	Biosynthesis of Natural Flavanones in Saccharomyces cerevisiae. Applied and Environmental Microbiology, 2005, 71, 5610-5613.	3.1	203
13	Metabolic engineering for plant natural product biosynthesis in microbes. Current Opinion in Biotechnology, 2008, 19, 597-605.	6.6	200
14	Masquerading microbial pathogens: capsular polysaccharides mimic host-tissue molecules. FEMS Microbiology Reviews, 2014, 38, 660-697.	8.6	191
15	Increased Malonyl Coenzyme A Biosynthesis by Tuning the <i>Escherichia coli</i> Metabolic Network and Its Application to Flavanone Production. Applied and Environmental Microbiology, 2009, 75, 5831-5839.	3.1	185
16	Improving NADPH availability for natural product biosynthesis in Escherichia coli by metabolic engineering. Metabolic Engineering, 2010, 12, 96-104.	7.0	178
17	Metabolic pathway balancing and its role in the production of biofuels and chemicals. Current Opinion in Biotechnology, 2015, 33, 52-59.	6.6	176
18	Functional expression of a P450 flavonoid hydroxylase for the biosynthesis of plant-specific hydroxylated flavonols in Escherichia coli. Metabolic Engineering, 2006, 8, 172-181.	7.0	164

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19	Complete Biosynthesis of Anthocyanins Using <i>E. coli</i> Polycultures. MBio, 2017, 8, .	4.1	157
20	Metabolic Engineering of Anthocyanin Biosynthesis in Escherichia coli. Applied and Environmental Microbiology, 2005, 71, 3617-3623.	3.1	148
21	CRISPathBrick: Modular Combinatorial Assembly of Type II-A CRISPR Arrays for dCas9-Mediated Multiplex Transcriptional Repression in <i>E. coli</i>. ACS Synthetic Biology, 2015, 4, 987-1000.	3.8	144
22	Biosynthesis and biotechnological production of flavanones: current state and perspectives. Applied Microbiology and Biotechnology, 2009, 83, 799-808.	3.6	137
23	Engineering the biological conversion of methanol to specialty chemicals in Escherichia coli. Metabolic Engineering, 2017, 39, 49-59.	7.0	137
24	Microbial production of value-added nutraceuticals. Current Opinion in Biotechnology, 2016, 37, 97-104.	6.6	134
25	ePathOptimize: A Combinatorial Approach for Transcriptional Balancing of Metabolic Pathways. Scientific Reports, 2015, 5, 11301.	3.3	126
26	Engineering of Artificial Plant Cytochrome P450 Enzymes for Synthesis of Isoflavones by <i>Escherichia coli</i>. Applied and Environmental Microbiology, 2007, 73, 7246-7251.	3.1	125
27	Optimizing Oleaginous Yeast Cell Factories for Flavonoids and Hydroxylated Flavonoids Biosynthesis. ACS Synthetic Biology, 2019, 8, 2514-2523.	3.8	125
28	Design and Kinetic Analysis of a Hybrid Promoterâ€“Regulator System for Malonyl-CoA Sensing in <i>Escherichia coli</i>. ACS Chemical Biology, 2014, 9, 451-458.	3.4	123
29	CRISPRi-mediated metabolic engineering of E. coli for O-methylated anthocyanin production. Microbial Cell Factories, 2017, 16, 10.	4.0	121
30	Production of chondroitin in metabolically engineered E. coli. Metabolic Engineering, 2015, 27, 92-100.	7.0	117
31	Improvement of catechin production in Escherichia coli through combinatorial metabolic engineering. Metabolic Engineering, 2015, 28, 43-53.	7.0	116
32	Highâ€yield anthocyanin biosynthesis in engineered <i>Escherichia coli</i>. Biotechnology and Bioengineering, 2008, 100, 126-140.	3.3	113
33	Investigation of Two Distinct Flavone Synthases for Plant-Specific Flavone Biosynthesis in Saccharomyces cerevisiae. Applied and Environmental Microbiology, 2005, 71, 8241-8248.	3.1	105
34	Metabolic engineering of Escherichia coli for producing adipic acid through the reverse adipate-degradation pathway. Metabolic Engineering, 2018, 47, 254-262.	7.0	105
35	Advances in the development and application of microbial consortia for metabolic engineering. Metabolic Engineering Communications, 2019, 9, e00095.	3.6	103
36	Engineering plant metabolism into microbes: from systems biology to synthetic biology. Current Opinion in Biotechnology, 2013, 24, 291-299.	6.6	100

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37	Recent advances in modular co-culture engineering for synthesis of natural products. Current Opinion in Biotechnology, 2020, 62, 65-71.	6.6	99
38	Engineering metabolism and product formation in Corynebacterium glutamicum by coordinated gene overexpression. Metabolic Engineering, 2003, 5, 32-41.	7.0	94
39	Effect of Genomic Integration Location on Heterologous Protein Expression and Metabolic Engineering in <i>E.Âcoli</i>. ACS Synthetic Biology, 2017, 6, 710-720.	3.8	93
40	Strain improvement by metabolic engineering: lysine production as a case study for systems biology. Current Opinion in Biotechnology, 2005, 16, 361-366.	6.6	92
41	When plants produce not enough or at all: metabolic engineering of flavonoids in microbial hosts. Frontiers in Plant Science, 2015, 6, 7.	3.6	92
42	Biosynthesis of isoprenoids, polyunsaturated fatty acids and flavonoids in Saccharomyces cerevisiae. Microbial Cell Factories, 2006, 5, 20.	4.0	87
43	Production of 7- <i>O</i> -Methyl Aromadendrin, a Medicinally Valuable Flavonoid, in Escherichia coli. Applied and Environmental Microbiology, 2012, 78, 684-694.	3.1	85
44	Sensitive cells: enabling tools for static and dynamic control of microbial metabolic pathways. Current Opinion in Biotechnology, 2015, 36, 205-214.	6.6	85
45	Naringeninâ€responsive riboswitchâ€based fluorescent biosensor module for <i>Escherichia coli</i> coâ€cultures. Biotechnology and Bioengineering, 2017, 114, 2235-2244.	3.3	83
46	Application of combinatorial optimization strategies in synthetic biology. Nature Communications, 2020, 11, 2446.	12.8	80
47	Development of a Recombinant Escherichia coli Strain for Overproduction of the Plant Pigment Anthocyanin. Applied and Environmental Microbiology, 2015, 81, 6276-6284.	3.1	78
48	Development of Artificial Riboswitches for Monitoring of Naringenin <i>In Vivo</i>. ACS Synthetic Biology, 2017, 6, 2077-2085.	3.8	78
49	Fineâ€tuning the (2<i>S</i>)â€naringenin synthetic pathway using an iterative highâ€throughput balancing strategy. Biotechnology and Bioengineering, 2019, 116, 1392-1404.	3.3	76
50	Expression of a soluble flavone synthase allows the biosynthesis of phytoestrogen derivatives in Escherichia coli. Applied Microbiology and Biotechnology, 2006, 70, 85-91.	3.6	75
51	Rapid generation of CRISPR/dCas9-regulated, orthogonally repressible hybrid T7-lac promoters for modular, tuneable control of metabolic pathway fluxes in<i>Escherichia coli</i>. Nucleic Acids Research, 2016, 44, 4472-4485.	14.5	74
52	Metabolic Engineering. Annual Review of Biomedical Engineering, 1999, 1, 535-557.	12.3	69
53	Recent Advances in the Recombinant Biosynthesis of Polyphenols. Frontiers in Microbiology, 2017, 8, 2259.	3.5	69
54	Metabolic engineering and in vitro biosynthesis of phytochemicals and non-natural analogues. Plant Science, 2013, 210, 10-24.	3.6	64

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55	Natural Products for Type II Diabetes Treatment. Advances in Applied Microbiology, 2010, 71, 21-73.	2.4	62
56	Metabolic engineering of Corynebacterium glutamicum for anthocyanin production. Microbial Cell Factories, 2018, 17, 143.	4.0	61
57	Production of anthocyanins in metabolically engineered microorganisms: Current status and perspectives. Synthetic and Systems Biotechnology, 2017, 2, 259-266.	3.7	60
58	Pathway and protein engineering approaches to produce novel and commodity small molecules. Current Opinion in Biotechnology, 2013, 24, 1137-1143.	6.6	59
59	Combinatorial Mutasynthesis of Flavonoid Analogues from Acrylic Acids in Microorganisms. Organic Letters, 2007, 9, 1855-1858.	4.6	57
60	Optimization of naringenin and<i>p</i>-coumaric acid hydroxylation using the native<i>E. coli</i>hydroxylase complex, HpaBC. Biotechnology Progress, 2016, 32, 21-25.	2.6	56
61	Phytostilbenes as agrochemicals: biosynthesis, bioactivity, metabolic engineering and biotechnology. Natural Product Reports, 2021, 38, 1282-1329.	10.3	56
62	Whole-cell biocatalytic, enzymatic and green chemistry methods for the production of resveratrol and its derivatives. Biotechnology Advances, 2020, 39, 107461.	11.7	55
63	Biosynthesis of 5â€deoxyflavanones in microorganisms. Biotechnology Journal, 2007, 2, 1250-1262.	3.5	54
64	Standardized biosynthesis of flavan-3-ols with effects on pancreatic beta-cell insulin secretion. Applied Microbiology and Biotechnology, 2007, 77, 797-807.	3.6	54
65	Redirecting carbon flux into malonyl-CoA to improve resveratrol titers: Proof of concept for genetic interventions predicted by OptForce computational framework. Chemical Engineering Science, 2013, 103, 109-114.	3.8	54
66	Heparin and related polysaccharides: synthesis using recombinant enzymes and metabolic engineering. Applied Microbiology and Biotechnology, 2015, 99, 7465-7479.	3.6	54
67	Engineering <i>Escherichia coli</i> Coâ€Cultures for Production of Curcuminoids From Glucose. Biotechnology Journal, 2018, 13, e1700576.	3.5	52
68	The road to animal-free glycosaminoglycan production: current efforts and bottlenecks. Current Opinion in Biotechnology, 2018, 53, 85-92.	6.6	51
69	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 <i>N</i>-Acetylglucosamine. ACS Synthetic Biology, 2018, 7, 2423-2435.	3.8	49
70	Design and Characterization of Biosensors for the Screening of Modular Assembled Naringenin Biosynthetic Library in <i>Saccharomyces cerevisiae</i>. ACS Synthetic Biology, 2019, 8, 2121-2130.	3.8	46
71	Antimicrobial mechanism of resveratrolâ€<i>trans</i>â€dihydrodimer produced from peroxidaseâ€catalyzed oxidation of resveratrol. Biotechnology and Bioengineering, 2015, 112, 2417-2428.	3.3	45
72	Tailor-made exopolysaccharidesâ€"CRISPR-Cas9 mediated genome editing in Paenibacillus polymyxa. Synthetic Biology, 2017, 2, ysx007.	2.2	45

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73	Engineering Corynebacterium glutamicum for the de novo biosynthesis of tailored poly-Î³-glutamic acid. Metabolic Engineering, 2019, 56, 39-49.	7.0	45
74	Production of pyranoanthocyanins using Escherichia coli co-cultures. Metabolic Engineering, 2019, 55, 290-298.	7.0	44
75	Effect of Pyruvate Carboxylase Overexpression on the Physiology of Corynebacterium glutamicum. Applied and Environmental Microbiology, 2002, 68, 5422-5428.	3.1	43
76	Biochemical strategies for enhancing the in vivo production of natural products with pharmaceutical potential. Current Opinion in Biotechnology, 2014, 25, 86-94.	6.6	43
77	Microbial Coculture for Flavonoid Synthesis. Trends in Biotechnology, 2020, 38, 686-688.	9.3	43
78	A novel cleaning process for industrial production of xylose in pilot scale from corncob by using screw-steam-explosive extruder. Bioprocess and Biosystems Engineering, 2014, 37, 2425-2436.	3.4	42
79	Engineering endogenous ABC transporter with improving ATP supply and membrane flexibility enhances the secretion of Î²-carotene in Saccharomyces cerevisiae. Biotechnology for Biofuels, 2020, 13, 168.	6.2	42
80	Optimizing Metabolic Pathways for the Improved Production of Natural Products. Methods in Enzymology, 2016, 575, 179-193.	1.0	41
81	Metabolic engineering of cyanobacteria for photoautotrophic production of heparosan, a pharmaceutical precursor of heparin. Algal Research, 2019, 37, 57-63.	4.6	41
82	Microbial Production of l-Serine from Renewable Feedstocks. Trends in Biotechnology, 2018, 36, 700-712.	9.3	40
83	Pathway enzyme engineering for flavonoid production in recombinant microbes. Metabolic Engineering Communications, 2019, 9, e00104.	3.6	40
84	Improved strategies for electrochemical 1,4-NAD(P)H2 regeneration: A new era of bioreactors for industrial biocatalysis. Biotechnology Advances, 2018, 36, 120-131.	11.7	39
85	Heavy Heparin: A Stable Isotopeâ€Enriched, Chemoenzymaticallyâ€Synthesized, Polyâ€Component Drug. Angewandte Chemie - International Edition, 2019, 58, 5962-5966.	13.8	35
86	Biotechnological Production of Flavonoids: An Update on Plant Metabolic Engineering, Microbial Host Selection, and Genetically Encoded Biosensors. Biotechnology Journal, 2020, 15, e1900432.	3.5	35
87	Complete biosynthesis of a sulfated chondroitin in Escherichia coli. Nature Communications, 2021, 12, 1389.	12.8	35
88	Metabolic engineering of<i>Escherichia coli</i>for biofuel production. Biofuels, 2010, 1, 493-504.	2.4	33
89	Deciphering flux adjustments of engineered E. coli cells during fermentation with changing growth conditions. Metabolic Engineering, 2017, 39, 247-256.	7.0	33
90	Comparative thermal inactivation analysis of <i>Aspergillus oryzae</i> and <i>Thiellavia terrestris</i> cutinase: Role of glycosylation. Biotechnology and Bioengineering, 2017, 114, 63-73.	3.3	33

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91	<i>In Vitro</i> Naringenin Biosynthesis from <i>p</i>-Coumaric Acid Using Recombinant Enzymes. Journal of Agricultural and Food Chemistry, 2019, 67, 13430-13436.	5.2	33
92	De novo biosynthesis of complex natural product sakuranetin using modular co-culture engineering. Applied Microbiology and Biotechnology, 2020, 104, 4849-4861.	3.6	33
93	Engineered heparins as new anticoagulant drugs. Bioengineering and Translational Medicine, 2017, 2, 17-30.	7.1	32
94	Development of Non-Natural Flavanones as Antimicrobial Agents. PLoS ONE, 2011, 6, e25681.	2.5	31
95	Melanization of flavonoids by fungal and bacterial laccases. Yeast, 2011, 28, 181-188.	1.7	31
96	Draft Genome Sequence of Escherichia coli Strain Nissle 1917 (Serovar O6:K5:H1). Genome Announcements, 2013, 1, e0004713.	0.8	31
97	A Versatile Microbial System for Biosynthesis of Novel Polyphenols with Altered Estrogen Receptor Binding Activity. Chemistry and Biology, 2010, 17, 392-401.	6.0	29
98	Metabolic engineering for production of functional polysaccharides. Current Opinion in Biotechnology, 2020, 66, 44-51.	6.6	28
99	Increased 3â€²â€Phosphoadenosineâ€5â€²â€phosphosulfate Levels in Engineered <i>Escherichia coli</i> Cell Lysate Facilitate the In Vitro Synthesis of Chondroitin Sulfate A. Biotechnology Journal, 2019, 14, e1800436.	3.5	27
100	Bioavailability and Recent Advances in the Bioactivity of Flavonoid and Stilbene Compounds. Current Organic Chemistry, 2010, 14, 1727-1751.	1.6	26
101	Reducing <i>Staphylococcus aureus</i> resistance to lysostaphin using CRISPRâ€dCas9. Biotechnology and Bioengineering, 2019, 116, 3149-3159.	3.3	26
102	High-yield production of l-serine through a novel identified exporter combined with synthetic pathway in Corynebacterium glutamicum. Microbial Cell Factories, 2020, 19, 115.	4.0	26
103	Metabolic engineering of E. coli for pyocyanin production. Metabolic Engineering, 2021, 64, 15-25.	7.0	26
104	Expanding the chemical space of polyketides through structure-guided mutagenesis of Vitis vinifera stilbene synthase. Biochimie, 2015, 115, 136-143.	2.6	25
105	Enzymatic formation of a resorcylic acid by creating a structureâ€guided singleâ€point mutation in stilbene synthase. Protein Science, 2015, 24, 167-173.	7.6	25
106	Cloning and Expression of Recombinant Chondroitinase ACII and Its Comparison to the <i>Arthrobacter aurescens</i> Enzyme. Biotechnology Journal, 2017, 12, 1700239.	3.5	25
107	Metabolic engineering of Bacillus megaterium for heparosan biosynthesis using Pasteurella multocida heparosan synthase, PmHS2. Microbial Cell Factories, 2019, 18, 132.	4.0	25
108	Rewiring the Central Metabolic Pathway for Highâ€Yield <scp>l</scp>â€Serine Production in <i>Corynebacterium glutamicum</i> by Using Glucose. Biotechnology Journal, 2019, 14, e1800497.	3.5	24

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109	Magnesium starvation improves production of malonyl-CoA-derived metabolites in Escherichia coli. Metabolic Engineering, 2019, 52, 215-223.	7.0	24
110	Dual regulation of lipid droplet-triacylglycerol metabolism and ERG9 expression for improved Î²-carotene production in Saccharomyces cerevisiae. Microbial Cell Factories, 2022, 21, 3.	4.0	24
111	Sequence of the Corynebacterium glutamicum pyruvate carboxylase gene. Applied Microbiology and Biotechnology, 1998, 50, 346-352.	3.6	23
112	Expression of chondroitin-4-O-sulfotransferase in Escherichia coli and Pichia pastoris. Applied Microbiology and Biotechnology, 2017, 101, 6919-6928.	3.6	23
113	Genetically-encoded biosensors for analyzing and controlling cellular process in yeast. Current Opinion in Biotechnology, 2020, 64, 175-182.	6.6	23
114	Synthesis and biological evaluation of 5,7-dihydroxyflavanone derivatives as antimicrobial agents. Bioorganic and Medicinal Chemistry Letters, 2016, 26, 3089-3092.	2.2	22
115	Molecular parts and genetic circuits for metabolic engineering of microorganisms. FEMS Microbiology Letters, 2018, 365, .	1.8	22
116	Engineering <i>Bacillus megaterium</i> Strains To Secrete Cellulases for Synergistic Cellulose Degradation in a Microbial Community. ACS Synthetic Biology, 2018, 7, 2413-2422.	3.8	21
117	Characterization of dihydroflavonol 4-reductases for recombinant plant pigment biosynthesis applications. Biocatalysis and Biotransformation, 2008, 26, 243-251.	2.0	19
118	Identification of the binding sites for ubiquinone and inhibitors in the Na+-pumping NADH-ubiquinone oxidoreductase from Vibrio cholerae by photoaffinity labeling. Journal of Biological Chemistry, 2017, 292, 7727-7742.	3.4	19
119	Novel Prokaryotic CRISPR-Cas12a-Based Tool for Programmable Transcriptional Activation and Repression. ACS Synthetic Biology, 2020, 9, 3353-3363.	3.8	19
120	Wall teichoic acids: physiology and applications. FEMS Microbiology Reviews, 2021, 45, .	8.6	19
121	Trends In Microbial Synthesis of Natural Products and Biofuels. Advances in Enzymology and Related Areas of Molecular Biology, 2009, 76, 151-217.	1.3	17
122	Antibiotic Korormicin A Kills Bacteria by Producing Reactive Oxygen Species. Journal of Bacteriology, 2019, 201, .	2.2	16
123	Evolutionary metabolic engineering. Metabolic Engineering, 2005, 7, 1-3.	7.0	15
124	Microbial production of bioactive chemicals for human health. Current Opinion in Food Science, 2020, 32, 9-16.	8.0	15
125	Increased Accumulation of Medium-Chain Fatty Acids by Dynamic Degradation of Long-Chain Fatty Acids in Mucor circinelloides. Genes, 2020, 11, 890.	2.4	15
126	Making brilliant colors by microorganisms. Current Opinion in Biotechnology, 2020, 61, 135-141.	6.6	15

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127	Multi-level rebalancing of the naringenin pathway using riboswitch-guided high-throughput screening. Metabolic Engineering, 2021, 67, 417-427.	7.0	15
128	Production of Deuterated Cyanidin 3-O-Glucoside from RecombinantEscherichia coli. ACS Omega, 2018, 3, 11643-11648.	3.5	14
129	Assembly of Multi-gene Pathways and Combinatorial Pathway Libraries Through ePathBrick Vectors. Methods in Molecular Biology, 2013, 1073, 107-129.	0.9	14
130	Biosynthesis of eriodictyol from tyrosine by Corynebacterium glutamicum. Microbial Cell Factories, 2022, 21, 86.	4.0	14
131	Expression of Low Endotoxin 3-O-Sulfotransferase in Bacillus subtilis and Bacillus megaterium. Applied Biochemistry and Biotechnology, 2013, 171, 954-962.	2.9	13
132	Metabolic engineering of capsular polysaccharides. Emerging Topics in Life Sciences, 2018, 2, 337-348.	2.6	13
133	Chemical Synthesis of Silk-Mimetic Polymers. Materials, 2019, 12, 4086.	2.9	13
134	The importance and future of biochemical engineering. Biotechnology and Bioengineering, 2020, 117, 2305-2318.	3.3	13
135	Abiotic-biotic hybrid for CO2 biomethanation: From electrochemical to photochemical process. Science of the Total Environment, 2021, 791, 148288.	8.0	13
136	Fabrication of homotypic neural ribbons as a multiplex platform optimized for spinal cord delivery. Scientific Reports, 2020, 10, 12939.	3.3	12
137	Improved Butanol Production Using FASII Pathway in <i>E. coli</i>. ACS Synthetic Biology, 2020, 9, 2390-2398.	3.8	12
138	Expression of enzymes for 3â€²-phosphoadenosine-5â€²-phosphosulfate (PAPS) biosynthesis and their preparation for PAPS synthesis and regeneration. Applied Microbiology and Biotechnology, 2020, 104, 7067-7078.	3.6	12
139	Biobased biorefineries: Sustainable bioprocesses and bioproducts from biomass/bioresources special issue. Renewable and Sustainable Energy Reviews, 2022, 167, 112683.	16.4	12
140	Expanding the repertoire of biofuel alternatives through metabolic pathway evolution. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 965-966.	7.1	11
141	Draft Genome Sequence of Escherichia coli Strain ATCC 23506 (Serovar O10:K5:H4). Genome Announcements, 2013, 1, e0004913.	0.8	11
142	Expression and secretion of glycosylated heparin biosynthetic enzymes using Komagataella pastoris. Applied Microbiology and Biotechnology, 2017, 101, 2843-2851.	3.6	11
143	Improved glucose and xylose co-utilization by overexpression of xylose isomerase and/or xylulokinase genes in oleaginous fungus Mucor circinelloides. Applied Microbiology and Biotechnology, 2021, 105, 5565-5575.	3.6	11
144	Draft Genome Sequence of Pseudoalteromonas luteoviolacea Strain B (ATCC 29581). Genome Announcements, 2013, 1, e0004813.	0.8	10

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145	Construction and functional characterization of truncated versions of recombinant keratanase II from Bacillus circulans. Glycoconjugate Journal, 2017, 34, 643-649.	2.7	10
146	Cell-free production of isobutanol: A completely immobilized system. Bioresource Technology, 2019, 294, 122104.	9.6	10
147	Specificity and action pattern of heparanase Bp, a Î²-glucuronidase from Burkholderia pseudomallei. Glycobiology, 2019, 29, 572-581.	2.5	10
148	Electrochemical Bioreactor Technology for Biocatalysis and Microbial Electrosynthesis. Advances in Applied Microbiology, 2018, 105, 51-86.	2.4	9
149	Harnessing electrical-to-biochemical conversion for microbial synthesis. Current Opinion in Biotechnology, 2022, 75, 102687.	6.6	9
150	Draft Genome Sequence of Escherichia coli Strain ATCC 23502 (Serovar O5:K4:H4). Genome Announcements, 2013, 1, e0004613.	0.8	8
151	The three NADH dehydrogenases of Pseudomonas aeruginosa: Their roles in energy metabolism and links to virulence. PLoS ONE, 2021, 16, e0244142.	2.5	8
152	Scalable, effective, and rapid decontamination of SARS-CoV-2 contaminated N95 respirators using germicidal ultraviolet C (UVC) irradiation device. Scientific Reports, 2021, 11, 19970.	3.3	8
153	Chondroitin Sulfate and Its Derivatives: A Review of Microbial and Other Production Methods. Fermentation, 2022, 8, 323.	3.0	8
154	Isoflavonoid Production by Genetically Engineered Microorganisms. , 2013, , 1647-1681.		7
155	Improved soluble expression and use of recombinant human renalase. PLoS ONE, 2020, 15, e0242109.	2.5	7
156	Bioelectrosynthesis systems. Current Opinion in Biotechnology, 2022, 74, 211-219.	6.6	7
157	<i>De novo</i> Biosynthesis of Salvianolic Acid B in <i>Saccharomyces cerevisiae</i> Engineered with the Rosmarinic Acid Biosynthetic Pathway. Journal of Agricultural and Food Chemistry, 2022, 70, 2290-2302.	5.2	7
158	Utilization of microbialÂcocultures for converting mixed substrates to valuable bioproducts. Current Opinion in Microbiology, 2022, 68, 102157.	5.1	7
159	Flavonoid Biotransformations in Microorganisms. , 2008, , 191-255.		6
160	Anthocyanin Production in Engineered Microorganisms. , 2018, , 81-97.		6
161	Microbial engineering biotechnologies. Biotechnology Advances, 2019, 37, 107399.	11.7	6
162	Mitigation of host cell mutations and regime shift during microbial fermentation: a perspective from flux memory. Current Opinion in Biotechnology, 2020, 66, 227-235.	6.6	6

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163	N-glycolyl chondroitin synthesis using metabolically engineered E. coli. AMB Express, 2020, 10, 144.	3.0	6
164	Editorial: Engineering the Microbial Platform for the Production of Biologics and Small-Molecule Medicines. Frontiers in Microbiology, 2019, 10, 2307.	3.5	5
165	Focus Issue Editorial: Synthetic Biology. Plant Physiology, 2019, 179, 772-774.	4.8	4
166	Modular optimization in metabolic engineering. Critical Reviews in Biochemistry and Molecular Biology, 2021, 56, 1-16.	5.2	4
167	Metabolic Engineering. Cell Engineering, 2007, , 301-359.	0.4	3
168	Metabolic bioengineering: glycans and glycoconjugates. Emerging Topics in Life Sciences, 2018, 2, 333-335.	2.6	3
169	Semi-rational evolution of pyruvate carboxylase from Rhizopus oryzae for elevated fumaric acid synthesis in Saccharomyces cerevisiae. Biochemical Engineering Journal, 2022, 177, 108238.	3.6	3
170	Pathway and Strain Design for Biofuels Production. , 2016, , 97-116.		2
171	Introduction to the Special Issue: â€œArnold Demain â€“ Industrial microbiologist extraodinaireâ€. Synthetic and Systems Biotechnology, 2017, 2, 1.	3.7	2
172	Heavy Heparin: A Stable Isotopeâ€Enriched, Chemoenzymaticallyâ€Synthesized, Polyâ€Component Drug. Angewandte Chemie, 2019, 131, 6023-6027.	2.0	2
173	Glycerol transporter 1 (Gt1) and zinc-regulated transporter 1 (Zrt1) function in different modes for zinc homeostasis in Komagataella phaffii (Pichia pastoris). Biotechnology Letters, 2020, 42, 2413-2423.	2.2	2
174	Bioproduction of biomacromolecules for antiviral applications. Current Opinion in Biotechnology, 2021, 69, 263-272.	6.6	2
175	Methods for the Development of Recombinant Microorganisms for the Production of Natural Products. Methods in Molecular Biology, 2022, 2396, 1-17.	0.9	2
176	An integrated computational and experimental study to increase the intra-cellular malonyl-CoA: Application to flavanone synthesis. , 2011, , .		1
177	Editorial overview: Food biotechnology. Current Opinion in Biotechnology, 2014, 26, v-vii.	6.6	1
178	Using Recombinant Microorganisms for the Synthesis and Modification of Flavonoids and Stilbenes. , 2014, , 483-488.		1
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