

# Michael Kohlstedt

## List of Publications by Year in descending order

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Version: 2024-02-01

23  
papers

1,626  
citations

394286

19  
h-index

642610

23  
g-index

27  
all docs

27  
docs citations

27  
times ranked

1501  
citing authors

#	ARTICLE	IF	CITATIONS
1	From lignin to nylon: Cascaded chemical and biochemical conversion using metabolically engineered <i>Pseudomonas putida</i> . <i>Metabolic Engineering</i> , 2018, 47, 279-293.	3.6	225
2	Metabolic engineering of <i>Corynebacterium glutamicum</i> for the production of cis, cis-muconic acid from lignin. <i>Microbial Cell Factories</i> , 2018, 17, 115.	1.9	150
3	Industrial biotechnology of <i>Pseudomonas putida</i> : advances and prospects. <i>Applied Microbiology and Biotechnology</i> , 2020, 104, 7745-7766.	1.7	128
4	Enabling the valorization of guaiacol-based lignin: Integrated chemical and biochemical production of cis,cis-muconic acid using metabolically engineered <i>Amycolatopsis sp ATCC 39116</i> . <i>Metabolic Engineering</i> , 2018, 45, 200-210.	3.6	125
5	Systems metabolic engineering of <i>Corynebacterium glutamicum</i> for the production of the carbon-5 platform chemicals 5-aminovalerate and glutarate. <i>Microbial Cell Factories</i> , 2016, 15, 154.	1.9	109
6	Metabolic fluxes and beyond systems biology understanding and engineering of microbial metabolism. <i>Applied Microbiology and Biotechnology</i> , 2010, 88, 1065-1075.	1.7	90
7	GC-MS-based <sup>13</sup> C metabolic flux analysis resolves the parallel and cyclic glucose metabolism of <i>Pseudomonas putida</i> KT2440 and <i>Pseudomonas aeruginosa</i> PAO1. <i>Metabolic Engineering</i> , 2019, 54, 35-53.	3.6	90
8	Systems metabolic engineering of <i>Corynebacterium glutamicum</i> for production of the chemical chaperone ectoine. <i>Microbial Cell Factories</i> , 2013, 12, 110.	1.9	84
9	Adaptation of <i>Bacillus subtilis</i> carbon core metabolism to simultaneous nutrient limitation and osmotic challenge: a multiomics perspective. <i>Environmental Microbiology</i> , 2014, 16, 1898-1917.	1.8	83
10	Polyunsaturated fatty acid production by <i>Yarrowia lipolytica</i> employing designed myxobacterial PUFA synthases. <i>Nature Communications</i> , 2019, 10, 4055.	5.8	81
11	A bio-based route to the carbon-5 chemical glutaric acid and to bionylon-6,5 using metabolically engineered <i>Corynebacterium glutamicum</i> . <i>Green Chemistry</i> , 2018, 20, 4662-4674.	4.6	78
12	Microbial production of polyunsaturated fatty acids high-value ingredients for aquafeed, superfoods, and pharmaceuticals. <i>Current Opinion in Biotechnology</i> , 2021, 69, 199-211.	3.3	64
13	Metabolic Engineering of <i>Corynebacterium glutamicum</i> for High-Level Ectoine Production: Design, Combinatorial Assembly, and Implementation of a Transcriptionally Balanced Heterologous Ectoine Pathway. <i>Biotechnology Journal</i> , 2019, 14, e1800417.	1.8	61
14	Contextual Flexibility in <i>Pseudomonas aeruginosa</i> Central Carbon Metabolism during Growth in Single Carbon Sources. <i>MBio</i> , 2020, 11, .	1.8	57
15	Guiding stars to the field of dreams: Metabolically engineered pathways and microbial platforms for a sustainable lignin-based industry. <i>Metabolic Engineering</i> , 2022, 71, 13-41.	3.6	36
16	Limited life cycle and cost assessment for the bioconversion of lignin-derived aromatics into adipic acid. <i>Biotechnology and Bioengineering</i> , 2020, 117, 1381-1393.	1.7	32
17	Cascaded valorization of brown seaweed to produce l-lysine and value-added products using <i>Corynebacterium glutamicum</i> streamlined by systems metabolic engineering. <i>Metabolic Engineering</i> , 2021, 67, 293-307.	3.6	30
18	Biobased PET from lignin using an engineered cis, cis-muconate-producing <i>Pseudomonas putida</i> strain with superior robustness, energy and redox properties. <i>Metabolic Engineering</i> , 2022, 72, 337-352.	3.6	26

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19	Vertical microbubble column – A photonic lab-on-chip for cultivation and online analysis of yeast cell cultures. <i>Biomicrofluidics</i> , 2012, 6, 034106.	1.2	19
20	Establishing recombinant production of pediocin PA-1 in <i>Corynebacterium glutamicum</i> . <i>Metabolic Engineering</i> , 2021, 68, 34-45.	3.6	15
21	GC/MS-based <sup>13</sup> C metabolic flux analysis resolves the parallel and cyclic photomixotrophic metabolism of <i>Synechocystis</i> sp. PCC 6803 and selected deletion mutants including the Entner-Doudoroff and phosphoketolase pathways. <i>Microbial Cell Factories</i> , 2022, 21, 69.	1.9	11
22	Channelling carbon flux through the <i>meta</i> – cleavage route for improved poly(3-hydroxyalkanoate) production from benzoate and lignin-based aromatics in <i>Pseudomonas putida</i> H. <i>Microbial Biotechnology</i> , 2021, 14, 2385-2402.	2.0	8
23	IsoSolve: An Integrative Framework to Improve Isotopic Coverage and Consolidate Isotopic Measurements by Mass Spectrometry and/or Nuclear Magnetic Resonance. <i>Analytical Chemistry</i> , 2021, 93, 9428-9436.	3.2	5