So Young Choi

List of Publications by Year
in descending order

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20	1,901	567281 15	752698 20
papers	citations	h-index	g-index

21	21	21	2157
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Structural insight into molecular mechanism of poly(ethylene terephthalate) degradation. Nature Communications, 2018, 9, 382.	12.8	449
2	Rational Protein Engineering of Thermo-Stable PETase from Ideonella sakaiensis for Highly Efficient PET Degradation. ACS Catalysis, 2019, 9, 3519-3526.	11.2	307
3	Recent advances in systems metabolic engineering tools and strategies. Current Opinion in Biotechnology, 2017, 47, 67-82.	6.6	185
4	One-step fermentative production of poly(lactate-co-glycolate) from carbohydrates in Escherichia coli. Nature Biotechnology, 2016, 34, 435-440.	17.5	182
5	Metabolic engineering for the synthesis of polyesters: A 100-year journey from polyhydroxyalkanoates to non-natural microbial polyesters. Metabolic Engineering, 2020, 58, 47-81.	7.0	138
6	Recent advances in microbial production of fuels and chemicals using tools and strategies of systems metabolic engineering. Biotechnology Advances, 2015, 33, 1455-1466.	11.7	94
7	Structural Insights into Polyhydroxyalkanoates Biosynthesis. Trends in Biochemical Sciences, 2018, 43, 790-805.	7.5	84
8	Metabolic engineering of Clostridium acetobutylicum for butyric acid production with high butyric acid selectivity. Metabolic Engineering, 2014, 23, 165-174.	7.0	83
9	Engineering of an oleaginous bacterium for the production of fatty acids and fuels. Nature Chemical Biology, 2019, 15, 721-729.	8.0	76
10	Microbial Polyhydroxyalkanoates and Nonnatural Polyesters. Advanced Materials, 2020, 32, e1907138.	21.0	65
11	Crystal structure of Ralstonia eutropha polyhydroxyalkanoate synthase Câ€terminal domain and reaction mechanisms. Biotechnology Journal, 2017, 12, 1600648.	3.5	57
12	Production of ethylene glycol from xylose by metabolically engineered Escherichia coli. AICHE Journal, 2018, 64, 4193-4200.	3.6	38
13	Engineering the xyloseâ€catabolizing Dahms pathway for production of poly(d â€lactateâ€co â€glycolate) and poly(d â€lactateâ€co â€glycolateâ€co â€d â€2â€hydroxybutyrate) in Escherichia coli. Microbial Biotechnology, 2017, 10, 1353-1364.	6.2	35
14	Structure and function of the Nâ€terminal domain of Ralstonia eutropha polyhydroxyalkanoate synthase, and the proposed structure and mechanisms of the whole enzyme. Biotechnology Journal, 2017, 12, 1600649.	3.5	35
15	Biosynthesis of poly(2â€hydroxyisovalerateâ€coâ€lactate) by metabolically engineered Escherichia coli. Biotechnology Journal, 2016, 11, 1572-1585.	3.5	25
16	Three-dimensional label-free visualization and quantification of polyhydroxyalkanoates in individual bacterial cell in its native state. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	7.1	16
17	Biocatalytic synthesis of polylactate and its copolymers by engineered microorganisms. Methods in Enzymology, 2019, 627, 125-162.	1.0	13
18	Reply to â€œConformational fitting of a flexible oligomeric substrate does not explain the enzymatic PET degradationâ€• Nature Communications, 2019, 10, 5582.	12.8	9

#	Article	IF	Citations
19	Biosynthesis and characterization of poly(<scp>d</scp>â€lactateâ€coâ€glycolateâ€coâ€4â€hydroxybutyrate). Biotechnology and Bioengineering, 2020, 117, 2187-2197.	3.3	8
20	Bacterial Polyesters: Microbial Polyhydroxyalkanoates and Nonnatural Polyesters (Adv. Mater.) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 702	21.0	2