Ping Xu

List of Publications by Citations

336	9,678	54	78
papers	citations	h-index	g-index

360	11,266	6.5	6.33
ext. papers	ext. citations	avg, IF	L-index

#	Paper	IF	Citations
336	Acetoin metabolism in bacteria. *Critical Reviews in Microbiology*, **2007**, 33, 127-40	7.8	256
335	Biotechnological routes based on lactic acid production from biomass. *Biotechnology Advances*, **2011**, 29, 930-9	17.8	209
334	Enhanced 2,3-butanediol production by Klebsiella pneumoniae SDM. *Applied Microbiology and Biotechnology*, **2009**, 82, 49-57	5.7	190
333	Degradation of n-alkanes and polycyclic aromatic hydrocarbons in petroleum by a newly isolated Pseudomonas aeruginosa DQ8. *Bioresource Technology*, **2011**, 102, 4111-6	11	183
332	Recent advances in biotechnological production of 2-phenylethanol. *Biotechnology Advances*, **2011**, 29, 654-60	17.8	136
331	Microbial degradation of sulfur, nitrogen and oxygen heterocycles. *Trends in Microbiology*, **2006**, 14, 398-405	11.4	125
330	Deep desulfurization of diesel oil and crude oils by a newly isolated Rhodococcus erythropolis strain. *Applied and Environmental Microbiology*, **2006**, 72, 54-8	4.8	119
329	Systematic metabolic engineering of Escherichia coli for high-yield production of fuel bio-chemical 2,3-butanediol. *Metabolic Engineering*, **2014**, 23, 22-33	9.7	115
328	Biotechnological production of muconic acid: current status and future prospects. *Biotechnology Advances*, **2014**, 32, 615-22	17.8	111
327	A novel whole-cell biocatalyst with NAD+ regeneration for production of chiral chemicals. *PLoS ONE*, **2010**, 5, e8860	3.7	111
326	Highly efficient production of D-lactate by Sporolactobacillus sp. CASD with simultaneous enzymatic hydrolysis of peanut meal. *Applied Microbiology and Biotechnology*, **2011**, 89, 1009-17	5.7	105
325	Biodiesel production in packed-bed reactors using lipase-nanoparticle biocomposite. *Bioresource Technology*, **2011**, 102, 6352-5	11	104
324	Enhanced vanillin production from ferulic acid using adsorbent resin. *Applied Microbiology and Biotechnology*, **2007**, 74, 783-90	5.7	102
323	Mechanisms of acid tolerance in bacteria and prospects in biotechnology and bioremediation. *Biotechnology Advances*, **2015**, 33, 1484-92	17.8	96
322	Metabolic engineering of Enterobacter cloacae for high-yield production of enantiopure (2R,3R)-2,3-butanediol from lignocellulose-derived sugars. *Metabolic Engineering*, **2015**, 28, 19-27	9.7	96
321	Efficient production of L-lactic acid from corncob molasses, a waste by-product in xylitol production, by a newly isolated xylose utilizing Bacillus sp. strain. *Bioresource Technology*, **2010**, 101, 7908-15	11	96
320	Immobilization of lipases onto magnetic Fe(3)O(4) nanoparticles for application in biodiesel production. *ChemSusChem*, **2009**, 2, 947-50	8.3	95

319	Deep desulfurization of hydrodesulfurization-treated diesel oil by a facultative thermophilic bacterium Mycobacterium sp. X7B. *FEMS Microbiology Letters*, **2003**, 223, 301-7	2.9	91
318	Systematic unraveling of the unsolved pathway of nicotine degradation in Pseudomonas. *PLoS Genetics*, **2013**, 9, e1003923	6	89
317	Characterization and biotechnological potential of petroleum-degrading bacteria isolated from oil-contaminated soils. *Bioresource Technology*, **2010**, 101, 8452-6	11	87
316	Non-sterilized fermentative production of polymer-grade L-lactic acid by a newly isolated thermophilic strain Bacillus sp. 2-6. *PLoS ONE*, **2009**, 4, e4359	3.7	86
315	Characterization of environmentally friendly nicotine degradation by Pseudomonas putida biotype A strain S16. *Microbiology (United Kingdom)*, **2007**, 153, 1556-1565	2.9	83
314	Production of 2,3-Butanediol by Klebsiella Pneumoniae Using Glucose and Ammonium Phosphate. *Chinese Journal of Chemical Engineering*, **2006**, 14, 132-136	3.2	82
313	Degradation of carbazole by microbial cells immobilized in magnetic gellan gum gel beads. *Applied and Environmental Microbiology*, **2007**, 73, 6421-8	4.8	81
312	A newly isolated Bacillus licheniformis strain thermophilically produces 2,3-butanediol, a platform and fuel bio-chemical. *Biotechnology for Biofuels*, **2013**, 6, 123	7.8	80
311	Effects of Carbon Nanotubes on Photoluminescence Properties of Quantum Dots. *Journal of Physical Chemistry C*, **2008**, 112, 939-944	3.8	80
310	Production of 2,3-butanediol from corncob molasses, a waste by-product in xylitol production. *Applied Microbiology and Biotechnology*, **2010**, 87, 965-70	5.7	79
309	Microbial transformation of propenylbenzenes for natural flavour production. *Trends in Biotechnology*, **2007**, 25, 571-6	15.1	79
308	Biotechnological routes to pyruvate production. *Journal of Bioscience and Bioengineering*, **2008**, 105, 169-75	3.3	78
307	Biotransformation of isoeugenol to vanillin by a newly isolated Bacillus pumilus strain: identification of major metabolites. *Journal of Biotechnology*, **2007**, 130, 463-70	3.7	77
306	Microbial desulfurization of gasoline in a Mycobacterium goodii X7B immobilized-cell system. *Applied and Environmental Microbiology*, **2005**, 71, 276-81	4.8	74
305	Biosensor based on glucose oxidase-nanoporous gold co-catalysis for glucose detection. *Biosensors and Bioelectronics*, **2015**, 66, 350-5	11.8	71
304	Cometabolic degradation of dibenzofuran and dibenzothiophene by a newly isolated carbazole-degrading Sphingomonas sp. strain. *Applied and Environmental Microbiology*, **2007**, 73, 2832-8	4.8	68
303	Biodesulfurization in biphasic systems containing organic solvents. *Applied and Environmental Microbiology*, **2006**, 72, 4604-9	4.8	68
302	Genomic analysis of Pseudomonas putida: genes in a genome island are crucial for nicotine degradation. *Scientific Reports*, **2012**, 2, 377	4.9	66

301	Production of L-lactic acid by a thermophilic Bacillus mutant using sodium hydroxide as neutralizing agent. *Bioresource Technology*, **2010**, 101, 7570-6	11	65
300	Efficient production of L-lactic acid from cassava powder by Lactobacillus rhamnosus. *Bioresource Technology*, **2010**, 101, 7895-901	11	65
299	The surfactant tween 80 enhances biodesulfurization. *Applied and Environmental Microbiology*, **2006**, 72, 7390-3	4.8	65
298	Biodesulfurization of DBT in tetradecane and crude oil by a facultative thermophilic bacterium Mycobacterium goodii X7B. *Journal of Biotechnology*, **2007**, 127, 222-8	3.7	64
297	"Green" route to 6-hydroxy-3-succinoyl-pyridine from (S)-nicotine of tobacco waste by whole cells of a Pseudomonas sp. *Environmental Science & Technology*, **2005**, 39, 6877-80	10.3	64
296	Effects of matrix proteins on the expression of matrix metalloproteinase-2, -9, and -14 and tissue inhibitors of metalloproteinases in human cytotrophoblast cells during the first trimester. *Biology of Reproduction*, **2001**, 65, 240-6	3.9	63
295	Multiscale Energy Dissipation Mechanism in Tough and Self-Healing Hydrogels. *Physical Review Letters*, **2018**, 121, 185501	7.4	63
294	Efficient conversion of phenylpyruvic acid to phenyllactic acid by using whole cells of Bacillus coagulans SDM. *PLoS ONE*, **2011**, 6, e19030	3.7	62
293	Modeling for gellan gum production by Sphingomonas paucimobilis ATCC 31461 in a simplified medium. *Applied and Environmental Microbiology*, **2006**, 72, 3367-74	4.8	61
292	Kinetics of D-lactic acid production by Sporolactobacillus sp. strain CASD using repeated batch fermentation. *Bioresource Technology*, **2010**, 101, 6499-505	11	58
291	A novel gene, encoding 6-hydroxy-3-succinoylpyridine hydroxylase, involved in nicotine degradation by Pseudomonas putida strain S16. *Applied and Environmental Microbiology*, **2008**, 74, 1567-74	4.8	58
290	Molecular mechanism of nicotine degradation by a newly isolated strain, Ochrobactrum sp. strain SJY1. *Applied and Environmental Microbiology*, **2015**, 81, 272-81	4.8	57
289	Efficient production of l-lactic acid using co-feeding strategy based on cane molasses/glucose carbon sources. *Bioresource Technology*, **2014**, 153, 23-9	11	57
288	Biocatalytic production of (2S,3S)-2,3-butanediol from diacetyl using whole cells of engineered Escherichia coli. *Bioresource Technology*, **2012**, 115, 111-6	11	57
287	Efficient utilization of hemicellulose hydrolysate for propionic acid production using Propionibacterium acidipropionici. *Bioresource Technology*, **2012**, 114, 711-4	11	57
286	DNA-Templated Ordered Array of Gold Nanorods in One and Two Dimensions. *Journal of Physical Chemistry C*, **2007**, 111, 12572-12576	3.8	56
285	Jerusalem artichoke powder: a useful material in producing high-optical-purity l-lactate using an efficient sugar-utilizing thermophilic Bacillus coagulans strain. *Bioresource Technology*, **2013**, 130, 174-80	11	54
284	Production of (2S,3S)-2,3-butanediol and (3S)-acetoin from glucose using resting cells of Klebsiella pneumonia and Bacillus subtilis. *Bioresource Technology*, **2011**, 102, 10741-4	11	54

283	Gellan gel beads containing magnetic nanoparticles: an effective biosorbent for the removal of heavy metals from aqueous system. *Bioresource Technology*, **2009**, 100, 2301-4	11	54
282	Repeated open fermentative production of optically pure L-lactic acid using a thermophilic Bacillus sp. strain. *Bioresource Technology*, **2010**, 101, 6494-8	11	54
281	Mimicking a natural pathway for de novo biosynthesis: natural vanillin production from accessible carbon sources. *Scientific Reports*, **2015**, 5, 13670	4.9	53
280	Complete genome sequence of the nicotine-degrading Pseudomonas putida strain S16. *Journal of Bacteriology*, **2011**, 193, 5541-2	3.5	53
279	Glycerol dehydrogenase plays a dual role in glycerol metabolism and 2,3-butanediol formation in Klebsiella pneumoniae. *Journal of Biological Chemistry*, **2014**, 289, 6080-90	5.4	51
278	A novel NADH-dependent and FAD-containing hydroxylase is crucial for nicotine degradation by Pseudomonas putida. *Journal of Biological Chemistry*, **2011**, 286, 39179-87	5.4	51
277	Metabolism of isoeugenol via isoeugenol-diol by a newly isolated strain of Bacillus subtilis HS8. *Applied Microbiology and Biotechnology*, **2006**, 73, 771-9	5.7	50
276	Efficient production of 2,3-butanediol from corn stover hydrolysate by using a thermophilic Bacillus licheniformis strain. *Bioresource Technology*, **2014**, 170, 256-261	11	49
275	Engineering of cofactor regeneration enhances (2S,3S)-2,3-butanediol production from diacetyl. *Scientific Reports*, **2013**, 3, 2643	4.9	49
274	Novel nicotine oxidoreductase-encoding gene involved in nicotine degradation by Pseudomonas putida strain S16. *Applied and Environmental Microbiology*, **2009**, 75, 772-8	4.8	49
273	Mesoscale bicontinuous networks in self-healing hydrogels delay fatigue fracture. *Proceedings of the National Academy of Sciences of the United States of America*, **2020**, 117, 7606-7612	11.5	48
272	An engineered Pseudomonas putida can simultaneously degrade organophosphates, pyrethroids and carbamates. *Science of the Total Environment*, **2018**, 628-629, 1258-1265	10.2	48
271	Selective determination of phenols and aromatic amines based on horseradish peroxidase-nanoporous gold co-catalytic strategy. *Biosensors and Bioelectronics*, **2016**, 79, 843-9	11.8	48
270	Enhanced 2-phenylethanol production from L-phenylalanine via in situ product adsorption. *Biocatalysis and Biotransformation*, **2010**, 28, 259-266	2.5	48
269	Chemical analysis of the Chinese liquor Luzhoulaojiao by comprehensive two-dimensional gas chromatography/time-of-flight mass spectrometry. *Scientific Reports*, **2015**, 5, 9553	4.9	46
268	Lipase-nanoporous gold biocomposite modified electrode for reliable detection of triglycerides. *Biosensors and Bioelectronics*, **2014**, 53, 26-30	11.8	46
267	Power generation and microbial community analysis in microbial fuel cells: A promising system to treat organic acid fermentation wastewater. *Bioresource Technology*, **2019**, 284, 72-79	11	45
266	Identification of nicotine biotransformation intermediates by Agrobacterium tumefaciens strain S33 suggests a novel nicotine degradation pathway. *Applied Microbiology and Biotechnology*, **2012**, 95, 1567-78	5.7	45

265	Contracted but effective: production of enantiopure 2,3-butanediol by thermophilic and GRAS Bacillus licheniformis. *Green Chemistry*, **2016**, 18, 4693-4703	10	45
264	Production of (3S)-acetoin from diacetyl by using stereoselective NADPH-dependent carbonyl reductase and glucose dehydrogenase. *Bioresource Technology*, **2013**, 137, 111-5	11	43
263	Production of N-acetyl-D-neuraminic acid by use of an efficient spore surface display system. *Applied and Environmental Microbiology*, **2011**, 77, 3197-201	4.8	43
262	Enzyme-nanoporous gold biocomposite: excellent biocatalyst with improved biocatalytic performance and stability. *PLoS ONE*, **2011**, 6, e24207	3.7	42
261	Engineering Pseudomonas putida KT2440 for simultaneous degradation of organophosphates and pyrethroids and its application in bioremediation of soil. *Biodegradation*, **2015**, 26, 223-33	4.1	41
260	Efficient 2,3-butanediol production from cassava powder by a crop-biomass-utilizer, Enterobacter cloacae subsp. dissolvens SDM. *PLoS ONE*, **2012**, 7, e40442	3.7	41
259	Efficient simultaneous saccharification and fermentation of inulin to 2,3-butanediol by thermophilic Bacillus licheniformis ATCC 14580. *Applied and Environmental Microbiology*, **2014**, 80, 6458-64	4.8	40
258	Lactate utilization is regulated by the FadR-type regulator LldR in Pseudomonas aeruginosa. *Journal of Bacteriology*, **2012**, 194, 2687-92	3.5	40
257	An efficient method for N-acetyl-D-neuraminic acid production using coupled bacterial cells with a safe temperature-induced system. *Applied Microbiology and Biotechnology*, **2010**, 86, 481-9	5.7	40
256	Membrane-bound L- and D-lactate dehydrogenase activities of a newly isolated Pseudomonas stutzeri strain. *Applied Microbiology and Biotechnology*, **2007**, 77, 91-8	5.7	40
255	Nocardiopsis xinjiangensis sp. nov., a halophilic actinomycete isolated from a saline soil sample in China. *International Journal of Systematic and Evolutionary Microbiology*, **2003**, 53, 317-321	2.2	40
254	Co-utilization of glycerol and lignocellulosic hydrolysates enhances anaerobic 1,3-propanediol production by Clostridium diolis. *Scientific Reports*, **2016**, 6, 19044	4.9	40
253	An artificial enzymatic reaction cascade for a cell-free bio-system based on glycerol. *Green Chemistry*, **2015**, 17, 804-807	10	39
252	Biotechnological production of acetoin, a bio-based platform chemical, from a lignocellulosic resource by metabolically engineered Enterobacter cloacae. *Green Chemistry*, **2016**, 18, 1560-1570	10	39
251	Biotechnological production and applications of N-acetyl-D-neuraminic acid: current state and perspectives. *Applied Microbiology and Biotechnology*, **2010**, 87, 1281-9	5.7	39
250	Enhancing the light-driven production of D-lactate by engineering cyanobacterium using a combinational strategy. *Scientific Reports*, **2015**, 5, 9777	4.9	38
249	Characterization of two Streptomyces enzymes that convert ferulic acid to vanillin. *PLoS ONE*, **2013**, 8, e67339	3.7	38
248	Coordination of metabolic pathways: Enhanced carbon conservation in 1,3-propanediol production by coupling with optically pure lactate biosynthesis. *Metabolic Engineering*, **2017**, 41, 102-114	9.7	37

247	Enzymatic production of 5-aminovalerate from L-lysine using L-lysine monooxygenase and 5-aminovaleramide amidohydrolase. *Scientific Reports*, **2014**, 4, 5657	4.9	37
246	Microbial lactate utilization: enzymes, pathogenesis, and regulation. *Trends in Microbiology*, **2014**, 22, 589-99	12.4	37
245	Green strategy from waste to value-added-chemical production: efficient biosynthesis of 6-hydroxy-3-succinoyl-pyridine by an engineered biocatalyst. *Scientific Reports*, **2014**, 4, 5397	4.9	37
244	Metabolic versatility of halotolerant and alkaliphilic strains of Halomonas isolated from alkaline black liquor. *Bioresource Technology*, **2010**, 101, 6778-84	11	37
243	Efficient Whole-Cell Biocatalytic Synthesis of N-Acetyl-D-neuraminic Acid. *Advanced Synthesis and Catalysis*, **2007**, 349, 1614-1618	5.6	37
242	Microbial colonization of different microplastic types and biotransformation of sorbed PCBs by a marine anaerobic bacterial community. *Science of the Total Environment*, **2020**, 705, 135790	10.2	37
241	Hydrogels as dynamic memory with forgetting ability. *Proceedings of the National Academy of Sciences of the United States of America*, **2020**, 117, 18962-18968	11.5	37
240	Deproteinization of gellan gum produced by Sphingomonas paucimobilis ATCC 31461. *Journal of Biotechnology*, **2007**, 128, 403-7	3.7	36
239	Xylanase immobilized nanoporous gold as a highly active and stable biocatalyst. *Microporous and Mesoporous Materials*, **2012**, 161, 1-6	5.3	34
238	One-pot bio-synthesis: N-acetyl-D-neuraminic acid production by a powerful engineered whole-cell catalyst. *Scientific Reports*, **2011**, 1, 142	4.9	34
237	New metabolites in dibenzofuran cometabolic degradation by a biphenyl-cultivated Pseudomonas putida strain B6-2. *Environmental Science & Technology*, **2009**, 43, 8635-42	10.3	34
236	Methods for the preparation of a biodesulfurization biocatalyst using Rhodococcus sp. *Chemosphere*, **2006**, 65, 165-9	8.4	34
235	Stretching-induced ion complexation in physical polyampholyte hydrogels. *Soft Matter*, **2016**, 12, 8833-8840	3.4	34
234	Increased glutarate production by blocking the glutaryl-CoA dehydrogenation pathway and a catabolic pathway involving L-2-hydroxyglutarate. *Nature Communications*, **2018**, 9, 2114	17.4	34
233	Enantioselective oxidation of racemic lactic acid to D-lactic acid and pyruvic acid by Pseudomonas stutzeri SDM. *Bioresource Technology*, **2009**, 100, 1878-80	11	33
232	Efficient bioconversion of 2,3-butanediol into acetoin using Gluconobacter oxydans DSM 2003. *Biotechnology for Biofuels*, **2013**, 6, 155	7.8	32
231	Degradation of carbazole and its derivatives by a Pseudomonas sp. *Applied Microbiology and Biotechnology*, **2006**, 73, 941-8	5.7	32
230	Microbial desulfurization of gasoline by free whole-cells of Rhodococcus erythropolis XP. *FEMS Microbiology Letters*, **2006**, 258, 284-9	2.9	32

229	A Coenzyme-Free Biocatalyst for the Value-Added Utilization of Lignin-Derived Aromatics. *Journal of the American Chemical Society*, **2018**, 140, 16001-16005	16.4	32
228	Production of C3 platform chemicals from CO2 by genetically engineered cyanobacteria. *Green Chemistry*, **2015**, 17, 3100-3110	10	31
227	Selective biodegradation of S and N heterocycles by a recombinant Rhodococcus erythropolis strain containing carbazole dioxygenase. *Applied and Environmental Microbiology*, **2006**, 72, 2235-8	4.8	31
226	Nanoporous gold-based microbial biosensor for direct determination of sulfide. *Biosensors and Bioelectronics*, **2017**, 98, 29-35	11.8	30
225	A Pandas complex adapted for piRNA-guided transcriptional silencing and heterochromatin formation. *Nature Cell Biology*, **2019**, 21, 1261-1272	23.4	29
224	Kinetic resolution of 2-hydroxybutanoate racemic mixtures by NAD-independent L-lactate dehydrogenase. *Bioresource Technology*, **2011**, 102, 4595-9	11	29
223	Effect of Structure Heterogeneity on Mechanical Performance of Physical Polyampholytes Hydrogels. *Macromolecules*, **2019**, 52, 7369-7378	5.5	28
222	Molybdenum-containing nicotine hydroxylase genes in a nicotine degradation pathway that is a variant of the pyridine and pyrrolidine pathways. *Applied and Environmental Microbiology*, **2015**, 81, 8330-8	4.8	28
221	Genomic analysis of thermophilic Bacillus coagulans strains: efficient producers for platform bio-chemicals. *Scientific Reports*, **2014**, 4, 3926	4.9	28
220	Alkaline Response of a Halotolerant Alkaliphilic Halomonas Strain and Functional Diversity of Its Na+(K+)/H+ Antiporters. *Journal of Biological Chemistry*, **2016**, 291, 26056-26065	5.4	28
219	Combinatorial metabolic engineering of Pseudomonas putida KT2440 for efficient mineralization of 1,2,3-trichloropropane. *Scientific Reports*, **2017**, 7, 7064	4.9	27
218	Improved microbial fuel cell performance by encapsulating microbial cells with a nickel-coated sponge. *Biosensors and Bioelectronics*, **2013**, 41, 848-51	11.8	27
217	Pseudomonas stutzeri as a novel biocatalyst for pyruvate production from DL-lactate. *Biotechnology Letters*, **2007**, 29, 105-10	3	27
216	Production of value-added chemicals from glycerol using in vitro enzymatic cascades. *Communications Chemistry*, **2018**, 1,	6.3	27
215	Unveiling the biotransformation mechanism of indole in a Cupriavidus sp. strain. *Molecular Microbiology*, **2017**, 106, 905-918	4.1	26
214	Temperature-Directed Biocatalysis for the Sustainable Production of Aromatic Aldehydes or Alcohols. *Angewandte Chemie - International Edition*, **2018**, 57, 1214-1217	16.4	26
213	Close relationship of a novel Flavobacteriaceae □amylase with archaeal □amylases and good potentials for industrial applications. *Biotechnology for Biofuels*, **2014**, 7, 18	7.8	26
212	Coupling between d-3-phosphoglycerate dehydrogenase and d-2-hydroxyglutarate dehydrogenase drives bacterial l-serine synthesis. *Proceedings of the National Academy of Sciences of the United States of America*, **2017**, 114, E7574-E7582	11.5	26

211	Highly stereoselective biosynthesis of (R)-hydroxy carboxylic acids through rationally re-designed mutation of D-lactate dehydrogenase. *Scientific Reports*, **2013**, 3, 3401	4.9	26
210	Phase Separation Behavior in Tough and Self-Healing Polyampholyte Hydrogels. *Macromolecules*, **2020**, 53, 5116-5126	5.5	25
209	An onboard checking mechanism ensures effector delivery of the type VI secretion system in. *Proceedings of the National Academy of Sciences of the United States of America*, **2019**, 116, 23292-23298	11.5	25
208	Metabolic engineering of Escherichia coli for production of (2S,3S)-butane-2,3-diol from glucose. *Biotechnology for Biofuels*, **2015**, 8, 143	7.8	25
207	An unusual repressor controls the expression of a crucial nicotine-degrading gene cluster in Pseudomonas putida S16. *Molecular Microbiology*, **2014**, 91, 1252-69	4.1	25
206	NAD-independent L-lactate dehydrogenase is required for L-lactate utilization in Pseudomonas stutzeri SDM. *PLoS ONE*, **2012**, 7, e36519	3.7	25
205	Genome sequence of Pseudomonas putida strain B6-2, a superdegrader of polycyclic aromatic hydrocarbons and dioxin-like compounds. *Journal of Bacteriology*, **2011**, 193, 6789-90	3.5	25
204	Microbial transformation of benzothiophenes, with carbazole as the auxiliary substrate, by Sphingomonas sp. strain XLDN2-5. *Microbiology (United Kingdom)*, **2008**, 154, 3804-3812	2.9	25
203	A constructed alkaline consortium and its dynamics in treating alkaline black liquor with very high pollution load. *PLoS ONE*, **2008**, 3, e3777	3.7	25
202	Acetoin catabolism and acetylbutanediol formation by Bacillus pumilus in a chemically defined medium. *PLoS ONE*, **2009**, 4, e5627	3.7	24
201	Relative catalytic efficiency of ldhL- and ldhD-encoded products is crucial for optical purity of lactic acid produced by lactobacillus strains. *Applied and Environmental Microbiology*, **2012**, 78, 3480-3	4.8	24
200	Mechanism of the 6-hydroxy-3-succinoyl-pyridine 3-monooxygenase flavoprotein from Pseudomonas putida S16. *Journal of Biological Chemistry*, **2014**, 289, 29158-70	5.4	23
199	Betaine and beet molasses enhance L-lactic acid production by Bacillus coagulans. *PLoS ONE*, **2014**, 9, e100731	3.7	23
198	Efficient production of 2-oxobutyrate from 2-hydroxybutyrate by using whole cells of Pseudomonas stutzeri strain SDM. *Applied and Environmental Microbiology*, **2010**, 76, 1679-82	4.8	23
197	Genome sequence of Rhodococcus erythropolis XP, a biodesulfurizing bacterium with industrial potential. *Journal of Bacteriology*, **2011**, 193, 6422-3	3.5	23
196	A novel microbial habitat of alkaline black liquor with very high pollution load: microbial diversity and the key members in application potentials. *Bioresource Technology*, **2010**, 101, 1737-44	11	23
195	l-Lactic acid production by Bacillus coagulans through simultaneous saccharification and fermentation of lignocellulosic corncob residue. *Bioresource Technology Reports*, **2019**, 6, 131-137	4.1	22
194	Production of uridine 5monophosphate by Corynebacterium ammoniagenes ATCC 6872 using a statistically improved biocatalytic process. *Applied Microbiology and Biotechnology*, **2007**, 76, 321-8	5.7	22

193	Highly efficient conversion of lactate to pyruvate using whole cells of Acinetobacter sp. *Biotechnology Progress*, **2003**, 19, 1672-6	2.8	22
192	Molecular Mechanism of ,-Dimethylformamide Degradation in sp. Strain DM1. *Applied and Environmental Microbiology*, **2019**, 85,	4.8	21
191	Production of diacetyl by metabolically engineered Enterobacter cloacae. *Scientific Reports*, **2015**, 5, 9033	4.9	21
190	An efficient magnetically modified microbial cell biocomposite for carbazole biodegradation. *Nanoscale Research Letters*, **2013**, 8, 522	5	21
189	Novel organic solvent-responsive expression vectors for biocatalysis: application for development of an organic solvent-tolerant biodesulfurizing strain. *Bioresource Technology*, **2011**, 102, 9380-7	11	21
188	Genome sequence of Enterobacter cloacae subsp. dissolvens SDM, an efficient biomass-utilizing producer of platform chemical 2,3-butanediol. *Journal of Bacteriology*, **2012**, 194, 897-8	3.5	21
187	Design of dendrimer modified carbon nanotubes for gene delivery. *Chinese Journal of Cancer Research: Official Journal of China Anti-Cancer Association, Beijing Institute for Cancer Research*, **2007** , 19, 1-6	3.8	21
186	1,3-Propanediol production by a newly isolated strain, Clostridium perfringens GYL. *Bioresource Technology*, **2017**, 233, 406-412	11	20
185	The HBCDs biodegradation using a Pseudomonas strain and its application in soil phytoremediation. *Journal of Hazardous Materials*, **2019**, 380, 120833	12.8	20
184	Switch of metabolic status: redirecting metabolic flux for acetoin production from glycerol by activating a silent glycerol catabolism pathway. *Metabolic Engineering*, **2017**, 39, 90-101	9.7	20
183	Sustainable production of valuable compound 3-succinoyl-pyridine by genetically engineering Pseudomonas putida using the tobacco waste. *Scientific Reports*, **2015**, 5, 16411	4.9	20
182	Comparative genome analysis reveals the molecular basis of nicotine degradation and survival capacities of Arthrobacter. *Scientific Reports*, **2015**, 5, 8642	4.9	20
181	New constitutive vectors: useful genetic engineering tools for biocatalysis. *Applied and Environmental Microbiology*, **2013**, 79, 2836-40	4.8	20
180	Escherichia coli transcription termination factor NusA: heat-induced oligomerization and chaperone activity. *Scientific Reports*, **2013**, 3, 2347	4.9	20
179	Genome sequence of Pseudomonas stutzeri SDM-LAC, a typical strain for studying the molecular mechanism of lactate utilization. *Journal of Bacteriology*, **2012**, 194, 894-5	3.5	20
178	Genome sequence of the welan gum-producing strain Sphingomonas sp. ATCC 31555. *Journal of Bacteriology*, **2012**, 194, 5989-90	3.5	20
177	Simultaneous biodetoxification of S, N, and O pollutants by engineering of a carbazole-degrading gene cassette in a recombinant biocatalyst. *Applied and Environmental Microbiology*, **2006**, 72, 7373-6	4.8	20
176	Transcription elongation factor GreA has functional chaperone activity. *PLoS ONE*, **2012**, 7, e47521	3.7	20

175	Phenol biodegradation by Acinetobacter radioresistens APH1 and its application in soil bioremediation. *Applied Microbiology and Biotechnology*, **2020**, 104, 427-437	5.7	20
174	Intramolecular chaperone-mediated secretion of an Rhs effector toxin by a type VI secretion system. *Nature Communications*, **2020**, 11, 1865	17.4	20
173	Efficient calcium lactate production by fermentation coupled with crystallization-based in situ product removal. *Bioresource Technology*, **2014**, 163, 33-9	11	19
172	Genome sequence of the thermophilic strain Bacillus coagulans 2-6, an efficient producer of high-optical-purity L-lactic acid. *Journal of Bacteriology*, **2011**, 193, 4563-4	3.5	19
171	Overexpression of transport proteins improves the production of 5-aminovalerate from l-lysine in Escherichia coli. *Scientific Reports*, **2016**, 6, 30884	4.9	18
170	Efficient production of propionic acid through high density culture with recycling cells of Propionibacterium acidipropionici. *Bioresource Technology*, **2016**, 216, 856-61	11	18
169	NAD-Independent L-Lactate Dehydrogenase Required for L-Lactate Utilization in Pseudomonas stutzeri A1501. *Journal of Bacteriology*, **2015**, 197, 2239-2247	3.5	17
168	Genome sequence of Pseudomonas putida Idaho, a unique organic-solvent-tolerant bacterium. *Journal of Bacteriology*, **2011**, 193, 7011-2	3.5	17
167	Multiple Roles for Two Efflux Pumps in the Polycyclic Aromatic Hydrocarbon-Degrading Pseudomonas putida Strain B6-2 (DSM 28064). *Applied and Environmental Microbiology*, **2017**, 83,	4.8	16
166	Utilization of D-Lactate as an Energy Source Supports the Growth of Gluconobacter oxydans. *Applied and Environmental Microbiology*, **2015**, 81, 4098-110	4.8	16
165	The genes coding for the conversion of carbazole to catechol are flanked by IS6100 elements in Sphingomonas sp. strain XLDN2-5. *PLoS ONE*, **2010**, 5, e10018	3.7	16
164	Enzymatic Cascades for Efficient Biotransformation of Racemic Lactate Derived from Corn Steep Water. *ACS Sustainable Chemistry and Engineering*, **2017**, 5, 3456-3464	8.3	15
163	Characterization of Pseudooxynicotine Amine Oxidase of Pseudomonas putida S16 that Is Crucial for Nicotine Degradation. *Scientific Reports*, **2015**, 5, 17770	4.9	15
162	Efficient production of polymer-grade L-lactic acid from corn stover hydrolyzate by thermophilic Bacillus sp. strain XZL4. *SpringerPlus*, **2012**, 1, 43		15
161	Pyruvate producing biocatalyst with constitutive NAD-independent lactate dehydrogenases. *Process Biochemistry*, **2010**, 45, 1912-1915	4.8	15
160	Stress Relaxation and Underlying Structure Evolution in Tough and Self-Healing Hydrogels. *ACS Macro Letters*, **2020**, 9, 1582-1589	6.6	15
159	A photoautotrophic platform for the sustainable production of valuable plant natural products from CO2. *Green Chemistry*, **2016**, 18, 3537-3548	10	15
158	Aggregated structures and their functionalities in hydrogels. *Aggregate*, **2021**, 2, e33	22.9	15

157	Enhancing Bioremediation Potential of by Developing Its Acid Stress Tolerance With Glutamate Decarboxylase Dependent System and Global Regulator of Extreme Radiation Resistance. *Frontiers in Microbiology*, **2019**, 10, 2033	5.7	14
156	Comparative transcriptome analysis reveals different molecular mechanisms of Bacillus coagulans 2-6 response to sodium lactate and calcium lactate during lactic acid production. *PLoS ONE*, **2015**, 10, e0124316	3.7	14
155	Rationally re-designed mutation of NAD-independent L-lactate dehydrogenase: high optical resolution of racemic mandelic acid by the engineered Escherichia coli. *Microbial Cell Factories*, **2012**, 11, 151	6.4	14
154	Structural and computational studies of the maleate isomerase from Pseudomonas putida S16 reveal a breathing motion wrapping the substrate inside. *Molecular Microbiology*, **2013**, 87, 1237-44	4.1	14
153	Both FMNH2 and FADH2 can be utilized by the dibenzothiophene monooxygenase from a desulfurizing bacterium Mycobacterium goodii X7B. *Bioresource Technology*, **2009**, 100, 2594-9	11	14
152	Chemoenzymatic synthesis of N-acetyl-D-neuraminic acid from N-acetyl-D-glucosamine by using the spore surface-displayed N-acetyl-D-neuraminic acid aldolase. *Applied and Environmental Microbiology*, **2011**, 77, 7080-3	4.8	14
151	Genome sequences of two thermophilic Bacillus licheniformis strains, efficient producers of platform chemical 2,3-butanediol. *Journal of Bacteriology*, **2012**, 194, 4133-4	3.5	14
150	Carotenoids play a positive role in the degradation of heterocycles by Sphingobium yanoikuyae. *PLoS ONE*, **2012**, 7, e39522	3.7	14
149	Production of d-Xylonate from Corn Cob Hydrolysate by a Metabolically Engineered Escherichia coli Strain. *ACS Sustainable Chemistry and Engineering*, **2019**, 7, 2160-2168	8.3	14
148	A Pseudomonas sp. strain uniquely degrades PAHs and heterocyclic derivatives via lateral dioxygenation pathways. *Journal of Hazardous Materials*, **2021**, 403, 123956	12.8	14
147	Regulatory Mechanism of Nicotine Degradation in. *MBio*, **2019**, 10,	7.8	13
146	Identification and Characterization of a Novel Gentisate 1,2-Dioxygenase Gene from a Halophilic Martelella Strain. *Scientific Reports*, **2015**, 5, 14307	4.9	13
145	Genome sequence of Sphingomonas elodea ATCC 31461, a highly productive industrial strain of gellan gum. *Journal of Bacteriology*, **2011**, 193, 7015-6	3.5	13
144	Genome sequence of the lactate-utilizing Pseudomonas aeruginosa strain XMG. *Journal of Bacteriology*, **2012**, 194, 4751-2	3.5	13
143	Characterization of a Dibenzofuran-degrading strain of Pseudomonas aeruginosa, FA-HZ1. *Environmental Pollution*, **2019**, 250, 262-273	9.3	12
142	Complete genome sequence of Mycobacterium goodii X7B, a facultative thermophilic biodesulfurizing bacterium with industrial potential. *Journal of Biotechnology*, **2015**, 212, 56-7	3.7	12
141	Amperometric inhibitive biosensor based on horseradish peroxidase-nanoporous gold for sulfide determination. *Scientific Reports*, **2016**, 6, 30905	4.9	12
140	Efficient conversion of 1,2-butanediol to (R)-2-hydroxybutyric acid using whole cells of Gluconobacter oxydans. *Bioresource Technology*, **2012**, 115, 75-8	11	12

139	Engineering chlorpyrifos-degrading Stenotrophomonas sp. YC-1 for heavy metal accumulation and enhanced chlorpyrifos degradation. *Biodegradation*, **2014**, 25, 903-10	4.1	12
138	Iron(II)-dependent dioxygenase and N-formylamide deformylase catalyze the reactions from 5-hydroxy-2-pyridone to maleamate. *Scientific Reports*, **2013**, 3, 3235	4.9	12
137	Draft genome sequence of Sporolactobacillus inulinus strain CASD, an efficient D-lactic acid-producing bacterium with high-concentration lactate tolerance capability. *Journal of Bacteriology*, **2011**, 193, 5864-5	3.5	12
136	Genome sequence of the thermophilic strain Bacillus coagulans XZL4, an efficient pentose-utilizing producer of chemicals. *Journal of Bacteriology*, **2011**, 193, 6398-9	3.5	12
135	Genome sequence of Sphingomonas wittichii DP58, the first reported phenazine-1-carboxylic acid-degrading strain. *Journal of Bacteriology*, **2012**, 194, 3535-6	3.5	12
134	Recent developments in biodesulfurization of fossil fuels. *Advances in Biochemical Engineering/Biotechnology*, **2009**, 113, 255-74	1.7	12
133	Characterization of a lactate oxidase from a strain of gram negative bacterium from soil. *Applied Biochemistry and Biotechnology*, **1996**, 56, 277-88	3.2	12
132	Biodesulfurization of Dibenzothiophene by a Newly Isolated Bacterium Mycobacterium sp. X7B. *Journal of Chemical Engineering of Japan*, **2003**, 36, 1174-1177	0.8	12
131	Pollution and biodegradation of hexabromocyclododecanes: A review. *Frontiers of Environmental Science and Engineering*, **2020**, 14, 1	5.8	12
130	Metabolic Engineering of for Production of Acetoin. *Frontiers in Bioengineering and Biotechnology*, **2020**, 8, 125	5.8	11
129	2,3-Butanediol catabolism in Pseudomonas aeruginosa PAO1. *Environmental Microbiology*, **2018**, 20, 3927-3940	5.2	11
128	Construction of a food-grade cell surface display system for Lactobacillus casei. *Microbiological Research*, **2014**, 169, 733-40	5.3	11
127	Efficient biocatalyst by encapsulating lipase into nanoporous gold. *Nanoscale Research Letters*, **2013**, 8, 180	5	11
126	PSP: rapid identification of orthologous coding genes under positive selection across multiple closely related prokaryotic genomes. *BMC Genomics*, **2013**, 14, 924	4.5	11
125	Optimization of medium composition for cis,cis-muconic acid production by a Pseudomonas sp. mutant using statistical methods. *Preparative Biochemistry and Biotechnology*, **2014**, 44, 342-54	2.4	11
124	Characterization of a novel metagenome-derived 6-phospho-β-glucosidase from black liquor sediment. *Applied and Environmental Microbiology*, **2013**, 79, 2121-7	4.8	11
123	Genome sequence of Sphingobium yanoikuyae XLDN2-5, an efficient carbazole-degrading strain. *Journal of Bacteriology*, **2011**, 193, 6404-5	3.5	11
122	Genome sequence of Pseudomonas putida S12, a potential platform strain for industrial production of valuable chemicals. *Journal of Bacteriology*, **2012**, 194, 5985-6	3.5	11

121	Metabolite-based mutualism enhances hydrogen production in a two-species microbial consortium. *Communications Biology*, **2019**, 2, 82	6.7	10
120	Enzymatic Resolution by a d-Lactate Oxidase Catalyzed Reaction for (S)-2-Hydroxycarboxylic Acids. *ChemCatChem*, **2016**, 8, 2630-2633	5.2	10
119	The plasticity of indigenous microbial community in a full-scale heavy oil-produced water treatment plant. *Journal of Hazardous Materials*, **2018**, 358, 155-164	12.8	10
118	High ectoine production by an engineered Halomonas hydrothermalis Y2 in a reduced salinity medium. *Microbial Cell Factories*, **2019**, 18, 184	6.4	10
117	Efficient bioconversion of l-threonine to 2-oxobutyrate using whole cells of Pseudomonas stutzeri SDM. *Bioresource Technology*, **2012**, 110, 719-22	11	10
116	Efficient secretory expression of recombinant proteins in Escherichia coli with a novel actinomycete signal peptide. *Protein Expression and Purification*, **2017**, 129, 69-74	2	10
115	A novel biocatalyst for efficient production of 2-oxo-carboxylates using glycerol as the cost-effective carbon source. *Biotechnology for Biofuels*, **2015**, 8, 186	7.8	10
114	Genome sequence of Pseudomonas aeruginosa DQ8, an efficient degrader of n-alkanes and polycyclic aromatic hydrocarbons. *Journal of Bacteriology*, **2012**, 194, 6304-5	3.5	10
113	Genome sequence of Bacillus pumilus S-1, an efficient isoeugenol-utilizing producer for natural vanillin. *Journal of Bacteriology*, **2011**, 193, 6400-1	3.5	10
112	A biocatalyst for pyruvate preparation from dl-lactate: lactate oxidase in a Pseudomonas sp.. *Journal of Molecular Catalysis B: Enzymatic*, **2002**, 18, 299-305		10
111	Physiological and biochemical characterization of a novel nicotine-degrading bacterium Pseudomonas geniculata N1. *PLoS ONE*, **2014**, 9, e84399	3.7	10
110	Microbial Production of Hydrogen by Mixed Culture Technologies: A Review. *Biotechnology Journal*, **2020**, 15, e1900297	5.6	10
109	Carbon Flux Trapping: Highly Efficient Production of Polymer-Grade d-Lactic Acid with a Thermophilic d-Lactate Dehydrogenase. *ChemBioChem*, **2016**, 17, 1491-4	3.8	10
108	Complete genome sequence of sp. HBCD-sjtu, an efficient HBCD-degrading bacterium. *3 Biotech*, **2018**, 8, 291	2.8	10
107	Regulation of Glutarate Catabolism by GntR Family Regulator CsiR and LysR Family Regulator GcdR in Pseudomonas putida KT2440. *MBio*, **2019**, 10,	7.8	9
106	Steps Toward High-Performance PLA: Economical Production of d-Lactate Enabled by a Newly Isolated Sporolactobacillus terrae Strain. *Biotechnology Journal*, **2019**, 14, e1800656	5.6	9
105	Bacterial electroactivity and viability depends on the carbon nanotube-coated sponge anode used in a microbial fuel cell. *Bioelectrochemistry*, **2018**, 122, 26-31	5.6	9
104	Expression and functional analysis of two NhaD type antiporters from the halotolerant and alkaliphilic Halomonas sp. Y2. *Extremophiles*, **2016**, 20, 631-9	3	9

103	Structural insights into the specific recognition of N-heterocycle biodenitrogenation-derived substrates by microbial amide hydrolases. *Molecular Microbiology*, **2014**, 91, 1009-21	4.1	9
102	Genome Sequence of a Newly Isolated Nicotine-Degrading Bacterium, Ochrobactrum sp. SJY1. *Genome Announcements*, **2014**, 2,		9
101	Genome Sequence of Dyella ginsengisoli Strain LA-4, an Efficient Degrader of Aromatic Compounds. *Genome Announcements*, **2013**, 1,		9
100	Genome sequence of the thermophile Bacillus coagulans Hammer, the type strain of the species. *Journal of Bacteriology*, **2012**, 194, 6294-5	3.5	9
99	Genome sequences of Pseudomonas luteola XLDN4-9 and Pseudomonas stutzeri XLDN-R, two efficient carbazole-degrading strains. *Journal of Bacteriology*, **2012**, 194, 5701-2	3.5	9
98	Genome sequence of a novel nicotine-degrading strain, Pseudomonas geniculata N1. *Journal of Bacteriology*, **2012**, 194, 3553-4	3.5	9
97	Genome sequence of a novel indigo-producing strain, Pseudomonas monteilii QM. *Journal of Bacteriology*, **2012**, 194, 4459-60	3.5	9
96	Genome sequence of a nicotine-degrading strain of Arthrobacter. *Journal of Bacteriology*, **2012**, 194, 5714-5	3.5	9
95	Efficient production of (R)-2-hydroxy-4-phenylbutyric acid by using a coupled reconstructed D-lactate dehydrogenase and formate dehydrogenase system. *PLoS ONE*, **2014**, 9, e104204	3.7	9
94	Efficient 2,3-butanediol production from whey powder using metabolically engineered Klebsiella oxytoca. *Microbial Cell Factories*, **2020**, 19, 162	6.4	9
93	Remodeling of the Photosynthetic Chain Promotes Direct CO Conversion into Valuable Aromatic Compounds. *Angewandte Chemie - International Edition*, **2018**, 57, 15990-15994	16.4	9
92	Tough, self-recovery and self-healing polyampholyte hydrogels. *Polymer Science - Series C*, **2017**, 59, 11-17	1.1	8
91	Directing enzyme devolution for biosynthesis of alkanols and 1,n-alkanediols from natural polyhydroxy compounds. *Metabolic Engineering*, **2017**, 44, 70-80	9.7	8
90	Reconstruction of lactate utilization system in Pseudomonas putida KT2440: a novel biocatalyst for l-2-hydroxy-carboxylate production. *Scientific Reports*, **2014**, 4, 6939	4.9	8
89	Characterization of benzoate degradation by newly isolated bacterium Pseudomonas sp. XP-M2. *Biochemical Engineering Journal*, **2009**, 46, 79-82	4.2	8
88	Screening for bacterial strains producing lactate oxidase. *Journal of Bioscience and Bioengineering*, **1996**, 81, 357-359		8
87	Enhancing Light-Driven 1,3-Propanediol Production by Using Natural Compartmentalization of Differentiated Cells. *ACS Synthetic Biology*, **2018**, 7, 2436-2446	5.7	8
86	Microbial degradation of multiple PAHs by a microbial consortium and its application on contaminated wastewater. *Journal of Hazardous Materials*, **2021**, 419, 126524	12.8	8

85	Characterization of environmentally friendly degradation of hexabromocyclododecane by a Bacillus strain HBCD-sjtu. *International Biodeterioration and Biodegradation*, **2019**, 145, 104794	4.8	7
84	Genome Sequence of the Nonpathogenic Pseudomonas aeruginosa Strain ATCC 15442. *Genome Announcements*, **2014**, 2,		7
83	Purification and characterization of a flavin reductase from the biodesulfurizing bacterium Mycobacterium goodii X7B. *Process Biochemistry*, **2012**, 47, 1144-1149	4.8	7
82	Metabolic characterization and genes for the conversion of biphenyl in Dyella ginsengisoli LA-4. *Biotechnology and Bioengineering*, **2012**, 109, 609-13	4.9	7
81	Functional and cooperative stabilization of a two-metal (Ca, Zn) center in □amylase derived from Flavobacteriaceae species. *Scientific Reports*, **2017**, 7, 17933	4.9	7
80	Genome Sequence of Martelella sp. Strain AD-3, a Moderately Halophilic Polycyclic Aromatic Hydrocarbon-Degrading Bacterium. *Genome Announcements*, **2014**, 2,		7
79	Efficient production of pyruvate from DL-lactate by the lactate-utilizing strain Pseudomonas stutzeri SDM. *PLoS ONE*, **2012**, 7, e40755	3.7	7
78	Genome Sequences of Two Morphologically Distinct and Thermophilic Bacillus coagulans Strains, H-1 and XZL9. *Genome Announcements*, **2013**, 1,		7
77	Orotate phosphoribosyltransferase from Corynebacterium ammoniagenes lacking a conserved lysine. *Journal of Bacteriology*, **2007**, 189, 9030-6	3.5	7
76	Engineering of glycerol utilization in Gluconobacter oxydans 621H for biocatalyst preparation in a low-cost way. *Microbial Cell Factories*, **2018**, 17, 158	6.4	7
75	Genome Sequence of Clostridium diolis Strain DSM 15410, a Promising Natural Producer of 1,3-Propanediol. *Genome Announcements*, **2013**, 1,		6
74	Genome sequence of Klebsiella pneumoniae LZ, a potential platform strain for 1,3-propanediol production. *Journal of Bacteriology*, **2012**, 194, 4457-8	3.5	6
73	Preparation of microbial desulfurization catalysts. *Science Bulletin*, **2002**, 47, 1077		6
72	Matcha Green Tea Alleviates Non-Alcoholic Fatty Liver Disease in High-Fat Diet-Induced Obese Mice by Regulating Lipid Metabolism and Inflammatory Responses. *Nutrients*, **2021**, 13,	6.7	6
71	Coexistence of two d-lactate-utilizing systems in Pseudomonas putida KT2440. *Environmental Microbiology Reports*, **2016**, 8, 699-707	3.7	6
70	Simultaneous hydrolysis of carbaryl and chlorpyrifos by Stenotrophomonas sp. strain YC-1 with surface-displayed carbaryl hydrolase. *Scientific Reports*, **2017**, 7, 13391	4.9	5
69	Isolation, Characterization, and Genomic Analysis of sp. Strain SMT-1, an Efficient Fluorene-Degrading Bacterium. *Evolutionary Bioinformatics*, **2019**, 15, 1176934319843518	1.9	5
68	Next-Generation Microbial Workhorses: Comparative Genomic Analysis of Fast-Growing Vibrio Strains Reveals Their Biotechnological Potential. *Biotechnology Journal*, **2020**, 15, e1900499	5.6	5

67	Complete genome of Martelella sp. AD-3, a moderately halophilic polycyclic aromatic hydrocarbons-degrading bacterium. *Journal of Biotechnology*, **2016**, 225, 29-30	3.7	5
66	A Bacterial Multidomain NAD-Independent d-Lactate Dehydrogenase Utilizes Flavin Adenine Dinucleotide and Fe-S Clusters as Cofactors and Quinone as an Electron Acceptor for d-Lactate Oxidization. *Journal of Bacteriology*, **2017**, 199,	3.5	5
65	Functional Identification of a Novel Gene, moaE, for 3-Succinoylpyridine Degradation in Pseudomonas putida S16. *Scientific Reports*, **2015**, 5, 13464	4.9	5
64	A comparative proteomic analysis of Bacillus coagulans in response to lactate stress during the production of L-lactic acid. *Biotechnology Letters*, **2014**, 36, 2545-9	3	5
63	Genome Sequence of meso-2,3-Butanediol-Producing Strain Serratia marcescens ATCC 14041. *Genome Announcements*, **2014**, 2,		5
62	Formation and identification of trimethylimidazole during tetramethylpyrazine production from glucose by Bacillus strains. *Biotechnology Letters*, **2009**, 31, 1421-5	3	5
61	Genome sequence of Lactobacillus rhamnosus strain CASL, an efficient L-lactic acid producer from cheap substrate cassava. *Journal of Bacteriology*, **2011**, 193, 7013-4	3.5	5
60	Microbial desulfurization of fuel oil. *Science Bulletin*, **2002**, 47, 365		5
59	An L-2-hydroxyglutarate biosensor based on specific transcriptional regulator LhgR. *Nature Communications*, **2021**, 12, 3619	17.4	5
58	Genome sequence of Halomonas hydrothermalis Y2, an efficient ectoine-producer isolated from pulp mill wastewater. *Journal of Biotechnology*, **2018**, 285, 38-41	3.7	5
57	d-2-Hydroxyglutarate dehydrogenase plays a dual role in l-serine biosynthesis and d-malate utilization in the bacterium. *Journal of Biological Chemistry*, **2018**, 293, 15513-15523	5.4	5
56	Hexabromocyclododecanes Are Dehalogenated by CYP168A1 from Strain HS9. *Applied and Environmental Microbiology*, **2021**, 87, e0082621	4.8	5
55	Effect of Fe3O4 nanoparticles on Sphingobium yanoikuyae XLDN2-5 cells in carbazole biodegradation. *Nanotechnology for Environmental Engineering*, **2017**, 2, 1	5.1	4
54	Functional Interaction between the N and C Termini of NhaD Antiporters from Halomonas sp. Strain Y2. *Journal of Bacteriology*, **2017**, 199,	3.5	4
53	Lamellar Bilayer to Fibril Structure Transformation of Tough Photonic Hydrogel under Elongation. *Macromolecules*, **2020**, 53, 4711-4721	5.5	4
52	Purification and Initial Characterization of 3-Hydroxybenzoate 6-Hydroxylase From a Halophilic Strain AD-3. *Frontiers in Microbiology*, **2018**, 9, 1335	5.7	4
51	Critical Functions of Region 1-67 and Helix XIII in Retaining the Active Structure of NhaD Antiporter in sp. Y2. *Frontiers in Microbiology*, **2018**, 9, 831	5.7	4
50	Sinomicrobium pectinilyticum sp. nov., a pectinase-producing bacterium isolated from alkaline and saline soil, and emended description of the genus Sinomicrobium. *International Journal of Systematic and Evolutionary Microbiology*, **2014**, 64, 2939-2943	2.2	4

49	Genome Sequence of Sphingomonas xenophaga QYY, an Anthraquinone-Degrading Strain. *Genome Announcements*, **2013**, 1,		4
48	Cloning, expression, purification, and activity assay of proteins related to D-lactic acid formation in Lactobacillus rhamnosus. *Applied Microbiology and Biotechnology*, **2010**, 87, 2117-23	5.7	4
47	VgrG-dependent effectors and chaperones modulate the assembly of the type VI secretion system. *PLoS Pathogens*, **2021**, 17, e1010116	7.6	4
46	Engineering Cyanobacteria for Photosynthetic Production of C3 Platform Chemicals and Terpenoids from CO. *Advances in Experimental Medicine and Biology*, **2018**, 1080, 239-259	3.6	4
45	Kinetic characteristics of long-term repeated fed-batch (LtRFb) l-lactic acid fermentation by a strain. *Engineering in Life Sciences*, **2020**, 20, 562-570	3.4	4
44	Molecular Deceleration Regulates Toxicant Release to Prevent Cell Damage in Pseudomonas putida S16 (DSM 28022). *MBio*, **2020**, 11,	7.8	4
43	A cold shock protein promotes high-temperature microbial growth through binding to diverse RNA species. *Cell Discovery*, **2021**, 7, 15	22.3	4
42	Characterization of Lysozyme-Like Effector TseP Reveals the Dependence of Type VI Secretion System (T6SS) Secretion on Effectors in Aeromonas dhakensis Strain SSU. *Applied and Environmental Microbiology*, **2021**, 87, e0043521	4.8	4
41	Genetic mapping of highly versatile and solvent-tolerant Pseudomonas putida B6-2 (ATCC BAA-2545) as a QsuperstarQfor mineralization of PAHs and dioxin-like compounds. *Environmental Microbiology*, **2021**, 23, 4309-4325	5.2	4
40	Unique regulator SrpR mediates crosstalk between efflux pumps TtgABC and SrpABC in Pseudomonas putida B6-2 (DSM 28064). *Molecular Microbiology*, **2021**, 115, 131-141	4.1	4
39	Cloning and characterization the nicotine degradation enzymes 6-hydroxypseudooxynicotine amine oxidase and 6-hydroxy-3-succinoylpyridine hydroxylase in Pseudomonas geniculata N1. *International Biodeterioration and Biodegradation*, **2019**, 142, 83-90	4.8	3
38	Temperature-Directed Biocatalysis for the Sustainable Production of Aromatic Aldehydes or Alcohols. *Angewandte Chemie*, **2018**, 130, 1228-1231	3.6	3
37	Genome Sequence of Thermophilic Bacillus licheniformis Strain 3F-3, an Efficient Pentose-Utilizing Producer of 2,3-Butanediol. *Genome Announcements*, **2014**, 2,		3
36	Genome Sequence of Sporolactobacillus terrae DSM 11697, the Type Strain of the Species. *Genome Announcements*, **2014**, 2,		3
35	Nanoporous gold: A review and potentials in biotechnological and biomedical applications. *Nano Select*, **2021**, 2, 1437-1458	3.1	3
34	Complete Genome Sequence of FA-HZ1, an Efficient Dibenzofuran-Degrading Bacterium. *Genome Announcements*, **2017**, 5,		2
33	Insights from comparative proteomic analysis into degradation of phenanthrene and salt tolerance by the halophilic Martelella strain AD-3. *Ecotoxicology*, **2021**, 30, 1499-1510	2.9	2
32	Pyruvate Production from Whey Powder by Metabolic Engineered. *Journal of Agricultural and Food Chemistry*, **2020**, 68, 15275-15283	5.7	2

31	Maximization of the petroleum biodegradation using a synthetic bacterial consortium based on minimal value algorithm. *International Biodeterioration and Biodegradation*, **2020**, 150, 104964	4.8	2
30	Two NAD-independent l-lactate dehydrogenases drive l-lactate utilization in Pseudomonas aeruginosa PAO1. *Environmental Microbiology Reports*, **2018**, 10, 569-575	3.7	2
29	Pulp mill wastewater sediment reveals novel methanogenic and cellulolytic populations. *Water Research*, **2013**, 47, 683-92	12.5	2
28	Structural basis for the transcriptional repressor NicR2 in nicotine degradation from Pseudomonas. *Molecular Microbiology*, **2017**, 103, 165-180	4.1	2
27	Draft Genome Sequence of the Gluconobacter oxydans Strain DSM 2003, an Important Biocatalyst for Industrial Use. *Genome Announcements*, **2014**, 2,		2
26	Genome Sequence of Klebsiella pneumoniae Strain ATCC 25955, an Oxygen-Insensitive Producer of 1,3-Propanediol. *Genome Announcements*, **2013**, 1,		2
25	Structural Insights into 6-Hydroxypseudooxynicotine Amine Oxidase from N1, the Key Enzyme Involved in Nicotine Degradation. *Applied and Environmental Microbiology*, **2020**, 86,	4.8	2
24	2,3-Butanediol synthesis from glucose supplies NADH for elimination of toxic acetate produced during overflow metabolism. *Cell Discovery*, **2021**, 7, 43	22.3	2
23	Coculture of Gluconobacter oxydans and Escherichia coli for 3,4-Dihydroxybutyric Acid Production from Xylose. *ACS Sustainable Chemistry and Engineering*, **2021**, 9, 10809-10817	8.3	2
22	Complete Genome Sequence of Sphingomonas sp. Strain NIC1, an Efficient Nicotine-Degrading Bacterium. *Genome Announcements*, **2016**, 4,		2
21	Biological insights into non-model microbial hosts through stable-isotope metabolic flux analysis. *Current Opinion in Biotechnology*, **2020**, 64, 32-38	11.4	2
20	Structure-guided insights into heterocyclic ring-cleavage catalysis of the non-heme Fe (II) dioxygenase NicX. *Nature Communications*, **2021**, 12, 1301	17.4	2
19	2-Hydroxy-4-(3?-oxo-3?H-benzofuran-2?-yliden)but-2-enoic acid biosynthesis from dibenzofuran using lateral dioxygenation in a Pseudomonas putida strain B6-2 (DSM 28064). *Bioresources and Bioprocessing*, **2018**, 5,	5.2	2
18	Remodeling of the Photosynthetic Chain Promotes Direct CO2 Conversion into Valuable Aromatic Compounds. *Angewandte Chemie*, **2018**, 130, 16222-16226	3.6	2
17	Microbial degradation of nitrogen heterocycles. *International Biodeterioration and Biodegradation*, **2019**, 142, 170-171	4.8	1
16	Production of hydroxypyruvate from glycerate by a novel biotechnological route. *Bioresource Technology*, **2013**, 131, 552-4	11	1
15	Reliable detection of Listeria monocytogenes by a portable paper-based multi-biocatalyst platform integrating three biomarkers: Gene hly, acetoin, and listeriolysin O protein. *Journal of Electroanalytical Chemistry*, **2022**, 905, 115975	4.1	1
14	Rapid production of l-DOPA by Vibrio natriegens, an emerging next-generation whole-cell catalysis chassis.. *Microbial Biotechnology*, **2022**,	6.3	1

13	A D-2-hydroxyglutarate biosensor based on specific transcriptional regulator DhdR. *Nature Communications*, **2021**, 12, 7108	17.4	1
12	Soil bioremediation by Pseudomonas brassicacearum MPDS and its enzyme involved in degrading PAHs.. *Science of the Total Environment*, **2021**, 813, 152522	10.2	1
11	Potassium resistance of halotolerant and alkaliphilic Halomonas sp. Y2 by a Na-induced K extrusion mechanism. *Microbiology (United Kingdom)*, **2019**, 165, 411-418	2.9	1
10	A triple functional sensing chip for rapid detection of pathogenic Listeria monocytogenes		1
9	Innenr□ktitelbild: Remodeling of the Photosynthetic Chain Promotes Direct CO2 Conversion into Valuable Aromatic Compounds (Angew. Chem. 49/2018). *Angewandte Chemie*, **2018**, 130, 16469-16469	3.6	1
8	Enhanced l-Serine Production from Glycerol by Integration with Thermodynamically Favorable d-Glycerate Oxidation. *ACS Sustainable Chemistry and Engineering*, **2022**, 10, 2587-2592	8.3	1
7	A thermophile Hydrogenibacillus sp. strain efficiently degrades environmental pollutants polycyclic aromatic hydrocarbons.. *Environmental Microbiology*, **2021**,	5.2	1
6	Flow Electrochemistry Enables Microbial Atmospheric CO2 Fixation via Coupling with Iodine-Mediated Organic Reactions. *ACS Sustainable Chemistry and Engineering*, **2022**, 10, 541-551	8.3	1
5	A d,l-lactate biosensor based on allosteric transcription factor LldR and amplified luminescent proximity homogeneous assay. *Biosensors and Bioelectronics*, **2022**, 211, 114378	11.8	1
4	Enabling QTY Server for Designing Water-Soluble □Helical Transmembrane Proteins.. *MBio*, **2022**, e0360421	7.8	0
3	Molecular mechanisms and biochemical analysis of fluorene degradation by the sp. SMT-1 strain. *3 Biotech*, **2021**, 11, 416	2.8	0
2	Dehydrogenation Mechanism of Three Stereoisomers of Butane-2,3-Diol in KT2440. *Frontiers in Bioengineering and Biotechnology*, **2021**, 9, 728767	5.8	0
1	Titelbild: Temperature-Directed Biocatalysis for the Sustainable Production of Aromatic Aldehydes or Alcohols (Angew. Chem. 5/2018). *Angewandte Chemie*, **2018**, 130, 1133-1133	3.6	