Byung-Gee Kim

List of Publications by Citations

150 papers	2,415 citations	26 h-index	42 g-index
158 ext. papers	3,007 ext. citations	5.2 avg, IF	5.24 L-index

#	Paper	IF	Citations
150	Asymmetric synthesis of chiral amines with ω-transaminase **1999**, 65, 206-211		167
149	The dynamic transcriptional and translational landscape of the model antibiotic producer Streptomyces coelicolor A3(2). *Nature Communications*, **2016**, 7, 11605	17.4	123
148	Synthetic fusion protein design and applications. *Biotechnology Advances*, **2015**, 33, 155-164	17.8	119
147	Tissue adhesive, rapid forming, and sprayable ECM hydrogel via recombinant tyrosinase crosslinking. *Biomaterials*, **2018**, 178, 401-412	15.6	69
146	High-level secretory production of intact, biologically active staphylokinase from Bacillus subtilis **1999**, 62, 87-96		69
145	Development of High Performance Polyurethane Elastomers Using Vanillin-Based Green Polyol Chain Extender Originating from Lignocellulosic Biomass. *ACS Sustainable Chemistry and Engineering*, **2017**, 5, 4582-4588	8.3	67
144	Solubilization and Iterative Saturation Mutagenesis of α1,3-fucosyltransferase from Helicobacter pylori to enhance its catalytic efficiency. *Biotechnology and Bioengineering*, **2016**, 113, 1666-75	4.9	56
143	Reconstruction of a high-quality metabolic model enables the identification of gene overexpression targets for enhanced antibiotic production in Streptomyces coelicolor A3(2). *Biotechnology Journal*, **2014**, 9, 1185-94	5.6	48
142	The ROK family regulator Rok7B7 pleiotropically affects xylose utilization, carbon catabolite repression, and antibiotic production in streptomyces coelicolor. *Journal of Bacteriology*, **2013**, 195, 1236-48	3.5	47
141	Mass spectrometric screening of transcriptional regulators involved in antibiotic biosynthesis in Streptomyces coelicolor A3(2). *Journal of Industrial Microbiology and Biotechnology*, **2009**, 36, 1073-83	4.2	47
140	Fungal cytochrome P450 monooxygenases of Fusarium oxysporum for the synthesis of ω-hydroxy fatty acids in engineered Saccharomyces cerevisiae. *Microbial Cell Factories*, **2015**, 14, 45	6.4	46
139	Fabrication of polyphenol-incorporated anti-inflammatory hydrogel via high-affinity enzymatic crosslinking for wet tissue adhesion. *Biomaterials*, **2020**, 242, 119905	15.6	44
138	Production of cytidine 5′-monophosphate N-acetylneuraminic acid using recombinant Escherichia coli as a biocatalyst. *Biotechnology and Bioengineering*, **2002**, 80, 516-24	4.9	43
137	Comparative Genomics Reveals the Core and Accessory Genomes of Streptomyces Species. *Journal of Microbiology and Biotechnology*, **2015**, 25, 1599-605	3.3	40
136	Construction of Efficient Platform Strains for Polyhydroxyalkanoate Production by Engineering Branched Pathway. *Polymers*, **2019**, 11,	4.5	37
135	Using tyrosinase as a monophenol monooxygenase: A combined strategy for effective inhibition of melanin formation. *Biotechnology and Bioengineering*, **2016**, 113, 735-43	4.9	36
134	Genome-scale model-driven strain design for dicarboxylic acid production in Yarrowia lipolytica. *BMC Systems Biology*, **2018**, 12, 12	3.5	36

133	Enhancing Thermostability and Organic Solvent Tolerance of ω-Transaminase through Global Incorporation of Fluorotyrosine. *Advanced Synthesis and Catalysis*, **2014**, 356, 993-998	5.6	35
132	Transcriptomics-based strain optimization tool for designing secondary metabolite overproducing strains of Streptomyces coelicolor. *Biotechnology and Bioengineering*, **2016**, 113, 651-60	4.9	33
131	Enzymatic synthesis of epothilone A glycosides. *AMB Express*, **2014**, 4, 31	4.1	32
130	Engineering Transaminase for Stability Enhancement and Site-Specific Immobilization through Multiple Noncanonical Amino Acids Incorporation. *ChemCatChem*, **2015**, 7, 417-421	5.2	32
129	Differential immune-stimulatory effects of LTAs from different lactic acid bacteria via MAPK signaling pathway in RAW 264.7 cells. *Immunobiology*, **2015**, 220, 460-6	3.4	31
128	Enzyme-mediated tissue adhesive hydrogels for meniscus repair. *International Journal of Biological Macromolecules*, **2018**, 110, 479-487	7.9	30
127	Biosynthesis of the Nylon 12 Monomer, ω-Aminododecanoic Acid with Novel CYP153A, AlkJ, and ω-TA Enzymes. *Biotechnology Journal*, **2018**, 13, e1700562	5.6	30
126	Cooperative Catechol-Functionalized Polypept(o)ide Brushes and Ag Nanoparticles for Combination of Protein Resistance and Antimicrobial Activity on Metal Oxide Surfaces. *Biomacromolecules*, **2018**, 19, 1602-1613	6.9	29
125	Heterologous expression of tyrosinase (MelC2) from Streptomyces avermitilis MA4680 in E. coli and its application for ortho-hydroxylation of resveratrol to produce piceatannol. *Applied Microbiology and Biotechnology*, **2015**, 99, 7915-24	5.7	26
124	Identification of novel thermostable ω-transaminase and its application for enzymatic synthesis of chiral amines at high temperature. *RSC Advances*, **2016**, 6, 69257-69260	3.7	26
123	Parallel anti-sense two-step cascade for alcohol amination leading to ω-amino fatty acids and α,ω-diamines. *Green Chemistry*, **2018**, 20, 4591-4595	10	26
122	Increased in vivo immunological potency of HB-110, a novel therapeutic HBV DNA vaccine, by electroporation. *Experimental and Molecular Medicine*, **2008**, 40, 669-76	12.8	25
121	Development of Multimodal Antibacterial Surfaces Using Porous Amine-Reactive Films Incorporating Lubricant and Silver Nanoparticles. *ACS Applied Materials & Interfaces*, **2019**, 11, 6550-6560	9.5	25
120	Production of ω-hydroxy palmitic acid using CYP153A35 and comparison of cytochrome P450 electron transfer system in vivo. *Applied Microbiology and Biotechnology*, **2016**, 100, 10375-10384	5.7	24
119	Ecofriendly one-pot biosynthesis of indigo derivative dyes using CYP102G4 and PrnA halogenase. *Dyes and Pigments*, **2019**, 162, 80-88	4.6	24
118	Production of p-hydroxybenzoic acid from p-coumaric acid by Burkholderia glumae BGR1. *Biotechnology and Bioengineering*, **2016**, 113, 1493-503	4.9	23
117	Lipase-catalyzed synthesis of lysophosphatidylcholine using organic cosolvent for in situ water activity control. *JAOCS, Journal of the American Oil ChemistsnSociety*, **2000**, 77, 791-797	1.8	23
116	Multiplex Gene Disruption by Targeted Base Editing of Yarrowia lipolytica Genome Using Cytidine Deaminase Combined with the CRISPR/Cas9 System. *Biotechnology Journal*, **2020**, 15, e1900238	5.6	22

115	A Novel Approach for Gene Expression Optimization through Native Promoter and 5′UTR Combinations Based on RNA-seq, Ribo-seq, and TSS-seq of Streptomyces coelicolor. *ACS Synthetic Biology*, **2017**, 6, 555-565	5.7	21
114	Enhanced production of nargenicin A1 and creation of a novel derivative using a synthetic biology platform. *Applied Microbiology and Biotechnology*, **2016**, 100, 9917-9931	5.7	21
113	In silico identification of metabolic engineering strategies for improved lipid production in by genome-scale metabolic modeling. *Biotechnology for Biofuels*, **2019**, 12, 187	7.8	21
112	Biosynthesis of (-)-5-Hydroxy-equol and 5-Hydroxy-dehydroequol from Soy Isoflavone, Genistein Using Microbial Whole Cell Bioconversion. *ACS Chemical Biology*, **2017**, 12, 2883-2890	4.9	21
111	Semi-rational engineering of CYP153A35 to enhance -hydroxylation activity toward palmitic acid. *Applied Microbiology and Biotechnology*, **2018**, 102, 269-277	5.7	21
110	Simultaneously Enhancing the Stability and Catalytic Activity of Multimeric Lysine Decarboxylase CadA by Engineering Interface Regions for Enzymatic Production of Cadaverine at High Concentration of Lysine. *Biotechnology Journal*, **2017**, 12, 1700278	5.6	20
109	Biosynthesis of indigo in Escherichia coli expressing self-sufficient CYP102A from Streptomyces cattleya. *Dyes and Pigments*, **2017**, 140, 29-35	4.6	19
108	P212A Mutant of Dihydrodaidzein Reductase Enhances (S)-Equol Production and Enantioselectivity in a Recombinant Escherichia coli Whole-Cell Reaction System. *Applied and Environmental Microbiology*, **2016**, 82, 1992-2002	4.8	19
107	Kinetic resolution of -methylbenzylamine by recombinant Pichia pastoris expressing -transaminase. *Biotechnology and Bioprocess Engineering*, **2010**, 15, 429-434	3.1	19
106	Dual-Channel Fluorescence Imaging of Hydrogel Degradation and Tissue Regeneration in the Brain. *Theranostics*, **2019**, 9, 4255-4264	12.1	18
105	Characterization of a new ScbR-like -butyrolactone binding regulator (SlbR) in Streptomyces coelicolor. *Applied Microbiology and Biotechnology*, **2012**, 96, 113-21	5.7	17
104	Surface display of bacterial tyrosinase on spores of Bacillus subtilis using CotE as an anchor protein. *Journal of Basic Microbiology*, **2016**, 56, 1331-1337	2.7	17
103	Genome-scale analysis reveals a role for NdgR in the thiol oxidative stress response in Streptomyces coelicolor. *BMC Genomics*, **2015**, 16, 116	4.5	16
102	Discovery of glycocholic acid and taurochenodeoxycholic acid as phenotypic biomarkers in cholangiocarcinoma. *Scientific Reports*, **2018**, 8, 11088	4.9	16
101	In vitro characterization of CYP102G4 from Streptomyces cattleya: A self-sufficient P450 naturally producing indigo. *Biochimica Et Biophysica Acta - Proteins and Proteomics*, **2018**, 1866, 60-67	4	15
100	Systems biology for understanding and engineering of heterotrophic oleaginous microorganisms. *Biotechnology Journal*, **2017**, 12, 1600104	5.6	15
99	Comparative functional characterization of a novel benzoate hydroxylase cytochrome P450 of Fusarium oxysporum. *Enzyme and Microbial Technology*, **2015**, 70, 58-65	3.8	15
98	Lipase-Catalyzed Synthesis of Lysophosphatidylcholinea. *Annals of the New York Academy of Sciences*, **1998**, 864, 341-344	6.5	15

97	Cryoprotective properties and preliminary characterization of exopolysaccharide (P-Arcpo 15) produced by the Arctic bacterium Pseudoalteromonas elyakovii Arcpo 15. *Preparative Biochemistry and Biotechnology*, **2016**, 46, 261-6	2.4	15
96	Production of pikromycin using branched chain amino acid catabolism in Streptomyces venezuelae ATCC 15439. *Journal of Industrial Microbiology and Biotechnology*, **2018**, 45, 293-303	4.2	14
95	Biosynthesis of the human milk oligosaccharide 3-fucosyllactose in metabolically engineered Escherichia coli via the salvage pathway through increasing GTP synthesis and β-galactosidase modification. *Biotechnology and Bioengineering*, **2019**, 116, 3324-3332	4.9	14
94	Improved immobilized enzyme systems using spherical micro silica sol-gel enzyme beads. *Biotechnology and Bioprocess Engineering*, **2006**, 11, 277-281	3.1	13
93	Effect of the hydration state of supports before lyophilization on subtilisin-A activity in organic media. *Biotechnology and Bioengineering*, **1996**, 50, 687-92	4.9	13
92	Production of 12-hydroxy dodecanoic acid methyl ester using a signal peptide sequence-optimized transporter AlkL and a novel monooxygenase. *Bioresource Technology*, **2019**, 291, 121812	11	12
91	Laser desorption/ionization Mass spectrometry using mesoporous silicate as matrix for the analysis of various molecules. *Biotechnology and Bioprocess Engineering*, **2007**, 12, 174-179	3.1	11
90	Asymmetric synthesis of unnaturall-amino acids using thermophilic aromaticl-amino acid transaminase. *Biotechnology and Bioprocess Engineering*, **2006**, 11, 299-305	3.1	11
89	Justification of continuous packed-bed reactor for retroviral vector production from amphotropic PsiCRIP murine producer cell. *Cytotechnology*, **2000**, 34, 151-8	2.2	11
88	Sugar-mediated regulation of a c-di-GMP phosphodiesterase in Vibrio cholerae. *Nature Communications*, **2019**, 10, 5358	17.4	11
87	Orobol, an Enzyme-Convertible Product of Genistein, exerts Anti-Obesity Effects by Targeting Casein Kinase 1 Epsilon. *Scientific Reports*, **2019**, 9, 8942	4.9	10
86	FCS and ECH dependent production of phenolic aldehyde and melanin pigment from l-tyrosine in Escherichia coli. *Enzyme and Microbial Technology*, **2018**, 112, 59-64	3.8	10
85	A MALDI-MS-based quantitative analytical method for endogenous estrone in human breast cancer cells. *Scientific Reports*, **2016**, 6, 24489	4.9	10
84	Implementing bacterial acid resistance into cell-free protein synthesis for buffer-free expression and screening of enzymes. *Biotechnology and Bioengineering*, **2015**, 112, 2630-5	4.9	10
83	Comparison of P aprE , P amyE , and P P43 promoter strength for β-galactosidase and staphylokinase expression in Bacillus subtilis. *Biotechnology and Bioprocess Engineering*, **2008**, 13, 313-318	3.1	10
82	Biochemical reactions on a microfluidic chip based on a precise fluidic handling method at the nanoliter scale. *Biotechnology and Bioprocess Engineering*, **2006**, 11, 146-153	3.1	10
81	Structural Basis for Highly Efficient Production of Catechol Derivatives at Acidic pH by Tyrosinase from Burkholderia thailandensis. *ACS Catalysis*, **2018**, 8, 10375-10382	13.1	10
80	In vivo Protein Evolution, Next Generation Protein Engineering Strategy: from Random Approach to Target-specific Approach. *Biotechnology and Bioprocess Engineering*, **2019**, 24, 85-94	3.1	9

79	BeReTa: a systematic method for identifying target transcriptional regulators to enhance microbial production of chemicals. *Bioinformatics*, **2017**, 33, 87-94	7.2	9
78	Lipase catalyzed reaction of L-ascorbic acid with cinnamic acid esters and substituted cinnamic acids. *Biotechnology and Bioprocess Engineering*, **2012**, 17, 50-54	3.1	9
77	Screening ofExiguobacterium acetylicum from soil samples showing enantioselective and alkalotolerant esterase activity. *Biotechnology and Bioprocess Engineering*, **2005**, 10, 367-371	3.1	9
76	Effects of Sucrose, Phosphate, and Calcium Carbonate on the Production of Pikromycin from Streptomyces venezuelae. *Journal of Microbiology and Biotechnology*, **2015**, 25, 496-502	3.3	9
75	Characterization of a Tryptophan 6-Halogenase from Streptomyces albus and Its Regioselectivity Determinants. *ChemBioChem*, **2020**, 21, 1446-1452	3.8	9
74	NAD(+)-specific glutamate dehydrogenase (EC.1.4.1.2) in Streptomyces coelicolor; in vivo characterization and the implication for nutrient-dependent secondary metabolism. *Applied Microbiology and Biotechnology*, **2016**, 100, 5527-36	5.7	9
73	Production of Tyrian purple indigoid dye from tryptophan in Escherichia coli. *Nature Chemical Biology*, **2021**, 17, 104-112	11.7	9
72	Effect of transmembrane pressure on Factor VIII yield in ATF perfusion culture for the production of recombinant human Factor VIII co-expressed with von Willebrand factor. *Cytotechnology*, **2016**, 68, 1687-96	2.2	8
71	Preclinical studies for pharmacokinetics and biodistribution of Ad-stTRAIL, an adenovirus delivering secretable trimeric TRAIL for gene therapy. *Experimental and Molecular Medicine*, **2011**, 43, 580-6	12.8	8
70	LC/MS detection of oligogalacturonic acids obtained from tragacanth degradation by pectinase producing bacteria. *Journal of Basic Microbiology*, **2019**, 59, 249-255	2.7	8
69	Transcriptome analysis of wild-type and afsS deletion mutant strains identifies synergistic transcriptional regulator of afsS for a high antibiotic-producing strain of Streptomyces coelicolor A3(2). *Applied Microbiology and Biotechnology*, **2018**, 102, 3243-3253	5.7	7
68	Polymeric solvent engineering for gram/liter scale production of a water-insoluble isoflavone derivative, (S)-equol. *Applied Microbiology and Biotechnology*, **2018**, 102, 6915-6921	5.7	7
67	Enzymatic production of (R)-phenylacetylcarbinol by pyruvate decarboxylase from Zymomonas mobilis. *Biotechnology and Bioprocess Engineering*, **2008**, 13, 372-376	3.1	7
66	Kinetic resolution of racemic alpha-methyl-beta-propiothiolactone by lipase-catalyzed hydrolysis. *Biotechnology Progress*, **2000**, 16, 973-8	2.8	7
65	Selective removal of anti-Gal antibodies from human serum by using synthetic Gal epitope on a core-shell type resin. *Biotechnology and Bioprocess Engineering*, **2008**, 13, 445-452	3.1	6
64	Fabrication of disposable protein chip for simultaneous sample detection. *Biotechnology and Bioprocess Engineering*, **2006**, 11, 455-461	3.1	6
63	Development of spectrophotometric method for monitoring trans-sialidase reaction and its application. *Biotechnology Letters*, **2000**, 22, 819-823	3	6
62	Novel enzymatic cross-linking-based hydrogel nanofilm caging system on pancreatic cell spheroid for long-term blood glucose regulation. *Science Advances*, **2021**, 7,	14.3	6

61	High-level secretory production of intact, biologically active staphylokinase from Bacillus subtilis **1999**, 62, 87		6
60	Development of cellulose-based conductive fabrics with electrical conductivity and flexibility. *PLoS ONE*, **2020**, 15, e0233952	3.7	5
59	Identification of (R)-selective □aminotransferases by exploring evolutionary sequence space. *Enzyme and Microbial Technology*, **2018**, 110, 46-52	3.8	5
58	Rewiring FadR regulon for the selective production of □hydroxy palmitic acid from glucose in Escherichia coli. *Metabolic Engineering*, **2018**, 47, 414-422	9.7	5
57	Rational engineering of ornithine decarboxylase with greater selectivity for ornithine over lysine through protein network analysis. *Journal of Biotechnology*, **2018**, 281, 175-182	3.7	5
56	Circular permutation of a bacterial tyrosinase enables efficient polyphenol-specific oxidation and quantitative preparation of orobol. *Biotechnology and Bioengineering*, **2019**, 116, 19-27	4.9	5
55	Nanopatterning of proteins using composite nanomold and self-assembled polyelectrolyte multilayers. *Macromolecular Research*, **2009**, 17, 232-239	1.9	5
54	Expression profiling of Streptomyces peucetius metabolic genes using DNA microarray analysis. *Biotechnology and Bioprocess Engineering*, **2008**, 13, 738-744	3.1	5
53	To the Final Goal: Can We Predict and Suggest Mutations for Protein to Develop Desired Phenotype?. *Biotechnology and Bioprocess Engineering*, **2018**, 23, 134-143	3.1	5
52	Elucidating Cysteine-Assisted Synthesis of Indirubin by a Flavin-Containing Monooxygenase. *ACS Catalysis*, **2019**, 9, 9539-9544	13.1	4
51	Comparative N-linked glycan analysis of wild-type and □1,3-galactosyltransferase gene knock-out pig fibroblasts using mass spectrometry approaches. *Molecules and Cells*, **2015**, 38, 65-74	3.5	4
50	Modified harvest system for enhancing Factor VIII yield in alternating tangential flow perfusion culture. *Journal of Bioscience and Bioengineering*, **2016**, 121, 561-5	3.3	4
49	Highly sensitive glycosylation analysis of membrane glycoproteins avoiding polymeric contaminants. *Biotechnology and Bioprocess Engineering*, **2014**, 19, 545-550	3.1	4
48	Characterization of two-step deglycosylation via oxidation by glycoside oxidoreductase and defining their subfamily. *Scientific Reports*, **2015**, 5, 10877	4.9	4
47	Identification of novel cytochrome P450 homologs using overlapped conserved residues based approach. *Biotechnology and Bioprocess Engineering*, **2015**, 20, 431-438	3.1	4
46	A versatile PCR-based tandem epitope tagging system for Streptomyces coelicolor genome. *Biochemical and Biophysical Research Communications*, **2012**, 424, 22-7	3.4	4
45	Application of LFH-PCR for the disruption ofSpoIIIE andSpoIIIG ofB. subtilis. *Biotechnology and Bioprocess Engineering*, **2000**, 5, 327-331	3.1	4
44	RiSLnet: Rapid identification of smart mutant libraries using protein structure network. Application to thermal stability enhancement. *Biotechnology and Bioengineering*, **2019**, 116, 250-259	4.9	4

43	Asymmetric synthesis of chiral amines with ω-transaminase **1999**, 65, 206		4
42	Decreased Growth and Antibiotic Production in Streptomyces coelicolor A3(2) by Deletion of a Highly Conserved DeoR Family Regulator, SCO1463. *Biotechnology and Bioprocess Engineering*, **2019**, 24, 613-621	3.1	3
41	Structural characterization of phosphoethanolamine-modified lipid A from probiotic strain Nissle 1917.. *RSC Advances*, **2019**, 9, 19762-19771	3.7	3
40	Ortho-hydroxylation of mammalian lignan enterodiol by cytochrome P450s from Actinomycetes sp.. *Korean Journal of Chemical Engineering*, **2015**, 32, 471-477	2.8	3
39	rational design and directed evolution of CYP102A1 (BM3) for regio-specific hydroxylation of isoflavone. *Biotechnology and Bioprocess Engineering*, **2015**, 20, 225-233	3.1	3
38	Enzymatic Synthesis of Aliphatic Primary ω-Amino Alcohols from ω-Amino Fatty Acids by Carboxylic Acid Reductase. *Catalysis Letters*, **2020**, 150, 3079-3085	2.8	3
37	Exploiting transcriptomic data for metabolic engineering: toward a systematic strain design. *Current Opinion in Biotechnology*, **2018**, 54, 26-32	11.4	3
36	A new flow path design for multidimensional protein identification technology using nano-liquid chromatography electrospray ionization mass spectrometry. *Korean Journal of Chemical Engineering*, **2013**, 30, 417-421	2.8	3
35	Regioselectivity-driven evolution of CYP102D1 for improved synthesis of 3′-ortho-dihydroxyisoflavone. *Enzyme and Microbial Technology*, **2015**, 71, 20-7	3.8	3
34	Construction of spore mutants of Bacillus subtilis for the development as a host for foreign protein production. *Biotechnology Letters*, **2001**, 23, 999-1004	3	3
33	Production of sialyltrisaccharides using β-galactosidase andtrans-sialidase in one pot. *Biotechnology and Bioprocess Engineering*, **2000**, 5, 215-218	3.1	3
32	Chitooligosaccharides and Thermostable Chitinase Against Vulvovaginal Candidiasis and Saprophyte Fungi: LC Mass Studies of Shrimp Shell Fermentation by Bacillus altitudinis. *Current Microbiology*, **2020**, 77, 40-48	2.4	3
31	High-yield production of (R)-acetoin in Saccharomyces cerevisiae by deleting genes for NAD(P)H-dependent ketone reductases producing meso-2,3-butanediol and 2,3-dimethylglycerate. *Metabolic Engineering*, **2021**, 66, 68-78	9.7	3
30	Development of an in vitro coculture device for the investigation of host-microbe interactions via integrative multiomics approaches. *Biotechnology and Bioengineering*, **2021**, 118, 1612-1623	4.9	3
29	Enzymatic Synthesis of ω-Hydroxydodecanoic Acid By Employing a Cytochrome P450 from Limnobacter sp. 105 MED. *Catalysts*, **2019**, 9, 54	4	2
28	Regioselective Biotransformation of Phloretin Using Streptomyces avermitilis MA4680. *Biotechnology and Bioprocess Engineering*, **2020**, 25, 272-278	3.1	2
27	Effect of Extracellular Tyrosinase on the Expression Level of P450, Fpr, and Fdx and Ortho-hydroxylation of Daidzein in Streptomyces avermitilis. *Applied Biochemistry and Biotechnology*, **2018**, 184, 1036-1046	3.2	2
26	The role of NdgR in glycerol metabolism in Streptomyces coelicolor. *Bioprocess and Biosystems Engineering*, **2017**, 40, 1573-1580	3.7	2

25	Light-Triggered In Situ Biosynthesis of Artificial Melanin for Skin Protection.. *Advanced Science*, **2022**, e2103503	13.6	2
24	Novel Spore-Displayed Tyrosinase Kit for Rapid Detection of Tyrosine in Urine: Pharmaceutical Applications for the Early Diagnosis of Kidney-Related Diseases. *Advanced Pharmaceutical Bulletin*, **2019**, 9, 331-334	4.5	2
23	Engineering Streptomyces coelicolor for production of monomethyl branched chain fatty acids. *Journal of Biotechnology*, **2020**, 307, 69-76	3.7	2
22	New application of the CRISPR-Cas9 system for site-specific exogenous gene doping analysis. *Drug Testing and Analysis*, **2021**, 13, 871-875	3.5	2
21	Application of Random Mutagenesis and Synthetic FadR Promoter for Production of Hydroxy Fatty Acid in. *Frontiers in Bioengineering and Biotechnology*, **2021**, 9, 624838	5.8	2
20	Characterization of ELP-fused Transaminase and Its Application for the Biosynthesis of Amino Acid. *Biotechnology and Bioprocess Engineering*, **2018**, 23, 481-489	3.1	2
19	Recent advances in the microbial hydroxylation and reduction of soy isoflavones. *FEMS Microbiology Letters*, **2018**, 365,	2.9	2
18	An integrative approach for high-throughput screening and characterization of transcriptional regulators in Streptomyces coelicolor. *Pure and Applied Chemistry*, **2010**, 82, 57-67	2.1	1
17	The Reductive Amination of Carbonyl Compounds Using Native Amine Dehydrogenase from Laribacter hongkongensis. *Biotechnology and Bioprocess Engineering*, **2021**, 26, 384-391	3.1	1
16	Development of a CHO cell line for stable production of recombinant antibodies against human MMP9.. *BMC Biotechnology*, **2022**, 22, 8	3.5	1
15	Generation of Recombinant Antibodies in HEK293F Cells for the Detection of .. *ACS Omega*, **2022**, 7, 9690-9700	3.9	1
14	Subgrouping Automata: automatic sequence subgrouping using phylogenetic tree-based optimum subgrouping algorithm. *Computational Biology and Chemistry*, **2014**, 48, 64-70	3.6	0
13	Rationally Designed Eugenol-Based Chain Extender for Self-Healing Polyurethane Elastomers. *ACS Omega*, **2021**, 6, 28848-28858	3.9	0
12	A multi-enzyme cascade reaction for the production of dicarboxylic acids from free fatty acids. *Journal of Industrial and Engineering Chemistry*, **2021**, 98, 358-365	6.3	0
11	An Integrative Multiomics Approach to Characterize Prebiotic Inulin Effects on .. *Frontiers in Bioengineering and Biotechnology*, **2022**, 10, 825399	5.8	0
10	Regioselective One-Pot Synthesis of Hydroxy-()-Equols Using Isoflavonoid Reductases and Monooxygenases and Evaluation of the Hydroxyequol Derivatives as Selective Estrogen Receptor Modulators and Antioxidants.. *Frontiers in Bioengineering and Biotechnology*, **2022**, 10, 830712	5.8	0
9	Production of Theasinensin A Using Laccase as Antioxidant and Antiaging Agent. *Biotechnology and Bioprocess Engineering*, **2022**, 27, 253	3.1	0
8	Spatial epitranscriptomics reveals A-to-I editome specific to cancer stem cell microniches.. *Nature Communications*, **2022**, 13, 2540	17.4	0

7	Development of Quenching-qPCR (Q-Q) assay for measuring absolute intracellular cleavage efficiency of ribozyme. *Analytical Biochemistry*, **2018**, 550, 27-33	3.1
6	Lysine ε-aminotransferases: kinetic constants, substrate specificities, and the variation in active site residues. *Enzyme and Microbial Technology*, **2016**, 84, 11-6	3.8
5	Biotechnology Tools for Green Synthesis: Enzymes, Metabolic Pathways, and their Improvement by Engineering **2011**, 1-22	
4	The effects of reformulating buffer species and their concentrations on subtilisin-catalyzed optical resolution of racemic 1-phenylethylamine in 3-methyl-3-pentanol. *Biotechnology and Bioprocess Engineering*, **1997**, 2, 43-47	3.1
3	Plasmid stability in a recombinant mammalian cell bioprocess. *Biotechnology Letters*, **1992**, 14, 351-356	3
2	Expression of soluble recombinant human matrix metalloproteinase 9 and generation of its monoclonal antibody. *Protein Expression and Purification*, **2021**, 187, 105931	2
1	Trap column-based intact mass spectrometry for rapid and accurate evaluation of protein molecular weight. *RSC Advances*, **2022**, 12, 15643-15651	3.7