Sungho Jang

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Global metabolic interaction network of the human gut microbiota for context-specific community-scale analysis. Nature Communications, 2017, 8, 15393.	12.8	216
2	Synthetic RNA devices to expedite the evolution of metabolite-producing microbes. Nature Communications, 2013, 4, 1413.	12.8	140
3	Sensitive fluorescence detection of SARS-CoV-2 RNA in clinical samples via one-pot isothermal ligation and transcription. Nature Biomedical Engineering, 2020, 4, 1168-1179.	22.5	133
4	Naringeninâ€responsive riboswitchâ€based fluorescent biosensor module for <i>Escherichia coli</i> coâ€cultures. Biotechnology and Bioengineering, 2017, 114, 2235-2244.	3.3	83
5	Development of Artificial Riboswitches for Monitoring of Naringenin <i>In Vivo</i> . ACS Synthetic Biology, 2017, 6, 2077-2085.	3.8	78
6	Design and optimization of genetically encoded biosensors for high-throughput screening of chemicals. Current Opinion in Biotechnology, 2018, 54, 18-25.	6.6	72
7	Rational Engineering of Enzyme Allosteric Regulation through Sequence Evolution Analysis. PLoS Computational Biology, 2012, 8, e1002612.	3.2	71
8	Synthetic biology: Tools to design microbes for the production of chemicals and fuels. Biotechnology Advances, 2013, 31, 811-817.	11.7	56
9	On-chip analysis, indexing and screening for chemical producing bacteria in a microfluidic static droplet array. Lab on A Chip, 2016, 16, 1909-1916.	6.0	51
10	RNA-based dynamic genetic controllers: development strategies and applications. Current Opinion in Biotechnology, 2018, 53, 1-11.	6.6	37
11	Artificial Caprolactam-Specific Riboswitch as an Intracellular Metabolite Sensor. ACS Synthetic Biology, 2019, 8, 1276-1283.	3.8	30
12	Multi-level engineering of Baeyer-Villiger monooxygenase-based Escherichia coli biocatalysts for the production of C9 chemicals from oleic acid. Metabolic Engineering, 2019, 54, 137-144.	7.0	30
13	Molecular parts and genetic circuits for metabolic engineering of microorganisms. FEMS Microbiology Letters, 2018, 365, .	1.8	22
14	Optimization of hexanoic acid production in recombinant Escherichia coli by precise flux rebalancing. Bioresource Technology, 2018, 247, 1253-1257.	9.6	21
15	Riboselector. Methods in Enzymology, 2015, 550, 341-362.	1.0	17
16	Systematic optimization of Lâ€ŧryptophan riboswitches for efficient monitoring of the metabolite in <i>Escherichia coli</i> . Biotechnology and Bioengineering, 2018, 115, 266-271.	3.3	16
17	Multi-level rebalancing of the naringenin pathway using riboswitch-guided high-throughput screening. Metabolic Engineering, 2021, 67, 417-427.	7.0	15
18	Tools and systems for evolutionary engineering of biomolecules and microorganisms. Journal of Industrial Microbiology and Biotechnology, 2019, 46, 1313-1326.	3.0	12

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19	Novel Hybrid Input Part Using Riboswitch and Transcriptional Repressor for Signal Inverting Amplifier. ACS Synthetic Biology, 2018, 7, 2199-2204.	3.8	9
20	Signal amplification and optimization of riboswitch-based hybrid inputs by modular and titratable toehold switches. Journal of Biological Engineering, 2021, 15, 11.	4.7	7
21	Toward tunable dynamic repression using CRISPRi. Biotechnology Journal, 2018, 13, e1800152.	3.5	6
22	Synthetic Regulatory Tools to Engineer Microbial Cell Factories for Chemical Production. , 2019, , 115-141.		0