Jeong Wook Lee

List of Publications by Year in Descending Order

36 papers	3,897 citations	18 h-index	38 g-index
38 ext. papers	5,109 ext. citations	12.3 avg, IF	5.27 L-index

#	Paper	IF	Citations
36	Biocompatible amphiphilic Janus nanoparticles with enhanced interfacial properties for colloidal surfactants.. *Journal of Colloid and Interface Science*, **2022**, 616, 488-498	9.3	1
35	Durable Superhydrophobic Poly(vinylidene fluoride) (PVDF)-Based Nanofibrous Membranes for Reusable Air Filters. *ACS Applied Polymer Materials*, **2022**, 4, 338-347	4.3	2
34	Cooperative Sequence Clustering and Decoding for DNA Storage System with Fountain Codes. *Bioinformatics*, **2021**,	7.2	3
33	Cell-Free Transcription-Coupled CRISPR/Cas12a Assay for Prototyping Cyanobacterial Promoters. *ACS Synthetic Biology*, **2021**, 10, 1300-1307	5.7	3
32	Biosensor-Assisted Adaptive Laboratory Evolution for Violacein Production. *International Journal of Molecular Sciences*, **2021**, 22,	6.3	5
31	Detection of Coronaviruses Using RNA Toehold Switch Sensors. *International Journal of Molecular Sciences*, **2021**, 22,	6.3	5
30	Genetic Biocontainment Systems for the Safe Use of Engineered Microorganisms. *Biotechnology and Bioprocess Engineering*, **2020**, 25, 974-984	3.1	6
29	Gas-Sensing Transcriptional Regulators. *Biotechnology Journal*, **2020**, 15, e1900345	5.6	4
28	Cell-free biosensors for rapid detection of water contaminants. *Nature Biotechnology*, **2020**, 38, 1451-1459	44.5	75
27	Acetyl-CoA-derived biofuel and biochemical production in cyanobacteria: a mini review. *Journal of Applied Phycology*, **2020**, 32, 1643-1653	3.2	13
26	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	19	67
25	Next-generation biocontainment systems for engineered organisms. *Nature Chemical Biology*, **2018**, 14, 530-537	11.7	96
24	Nucleic acid detection with CRISPR-Cas13a/C2c2. *Science*, **2017**, 356, 438-442	33.3	1240
23	Portable, On-Demand Biomolecular Manufacturing. *Cell*, **2016**, 167, 248-259.e12	56.2	211
22	Creating Single-Copy Genetic Circuits. *Molecular Cell*, **2016**, 63, 329-336	17.6	46
21	Homo-succinic acid production by metabolically engineered Mannheimia succiniciproducens. *Metabolic Engineering*, **2016**, 38, 409-417	9.7	40
20	"Deadman" and "Passcode" microbial kill switches for bacterial containment. *Nature Chemical Biology*, **2016**, 12, 82-6	11.7	163

19	Highly selective production of succinic acid by metabolically engineered Mannheimia succiniciproducens and its efficient purification. *Biotechnology and Bioengineering*, **2016**, 113, 2168-77	4.9	42
18	Rapid, Low-Cost Detection of Zika Virus Using Programmable Biomolecular Components. *Cell*, **2016**, 165, 1255-1266	56.2	697
17	Systems Metabolic Engineering of Escherichia coli for Chemicals, Materials, Biofuels, and Pharmaceuticals **2012**, 117-149		4
16	Systems metabolic engineering of microorganisms for natural and non-natural chemicals. *Nature Chemical Biology*, **2012**, 8, 536-46	11.7	551
15	Systems metabolic engineering for chemicals and materials. *Trends in Biotechnology*, **2011**, 29, 370-8	15.1	156
14	Microbial production of building block chemicals and polymers. *Current Opinion in Biotechnology*, **2011**, 22, 758-67	11.4	174
13	Genome-wide identification of the subcellular localization of the Escherichia coli B proteome using experimental and computational methods. *Proteomics*, **2011**, 11, 1213-27	4.8	10
12	Understanding and engineering of microbial cells based on proteomics and its conjunction with other omics studies. *Proteomics*, **2011**, 11, 721-43	4.8	10
11	Escherichia coli W as a new platform strain for the enhanced production of L-valine by systems metabolic engineering. *Biotechnology and Bioengineering*, **2011**, 108, 1140-7	4.9	53
10	Mannheimia succiniciproducens phosphotransferase system for sucrose utilization. *Applied and Environmental Microbiology*, **2010**, 76, 1699-703	4.8	15
9	Development of sucrose-utilizing Escherichia coli K-12 strain by cloning β-fructofuranosidases and its application for L-threonine production. *Applied Microbiology and Biotechnology*, **2010**, 88, 905-13	5.7	39
8	Proteome-based physiological analysis of the metabolically engineered succinic acid producer Mannheimia succiniciproducens LPK7. *Bioprocess and Biosystems Engineering*, **2010**, 33, 97-107	3.7	14
7	Proteome-level responses of Escherichia coli to long-chain fatty acids and use of fatty acid inducible promoter in protein production. *Journal of Biomedicine and Biotechnology*, **2008**, 2008, 735101		9
6	From genome sequence to integrated bioprocess for succinic acid production by Mannheimia succiniciproducens. *Applied Microbiology and Biotechnology*, **2008**, 79, 11-22	5.7	40
5	EcoProDB: the Escherichia coli protein database. *Bioinformatics*, **2007**, 23, 2501-3	7.2	13
4	The proteome of Mannheimia succiniciproducens, a capnophilic rumen bacterium. *Proteomics*, **2006**, 6, 3550-66	4.8	43
3	Enhanced proteome profiling by inhibiting proteolysis with small heat shock proteins. *Journal of Proteome Research*, **2005**, 4, 2429-34	5.6	23
2	Sensitive one-step isothermal detection of pathogen-derived RNAs		7