

# Jeong Wook Lee

## List of Publications by Citations

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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	Nucleic acid detection with CRISPR-Cas13a/C2c2. <i>Science</i> , <b>2017</b> , 356, 438-442	33.3	1240
35	Rapid, Low-Cost Detection of Zika Virus Using Programmable Biomolecular Components. <i>Cell</i> , <b>2016</b> , 165, 1255-1266	56.2	697
34	Systems metabolic engineering of microorganisms for natural and non-natural chemicals. <i>Nature Chemical Biology</i> , <b>2012</b> , 8, 536-46	11.7	551
33	Portable, On-Demand Biomolecular Manufacturing. <i>Cell</i> , <b>2016</b> , 167, 248-259.e12	56.2	211
32	Microbial production of building block chemicals and polymers. <i>Current Opinion in Biotechnology</i> , <b>2011</b> , 22, 758-67	11.4	174
31	Deadman and Passcode: Microbial kill switches for bacterial containment. <i>Nature Chemical Biology</i> , <b>2016</b> , 12, 82-6	11.7	163
30	Systems metabolic engineering for chemicals and materials. <i>Trends in Biotechnology</i> , <b>2011</b> , 29, 370-8	15.1	156
29	Next-generation biocontainment systems for engineered organisms. <i>Nature Chemical Biology</i> , <b>2018</b> , 14, 530-537	11.7	96
28	Cell-free biosensors for rapid detection of water contaminants. <i>Nature Biotechnology</i> , <b>2020</b> , 38, 1451-1459	11.5	75
27	Sensitive fluorescence detection of SARS-CoV-2 RNA in clinical samples via one-pot isothermal ligation and transcription. <i>Nature Biomedical Engineering</i> , <b>2020</b> , 4, 1168-1179	19	67
26	Escherichia coli W as a new platform strain for the enhanced production of L-valine by systems metabolic engineering. <i>Biotechnology and Bioengineering</i> , <b>2011</b> , 108, 1140-7	4.9	53
25	Creating Single-Copy Genetic Circuits. <i>Molecular Cell</i> , <b>2016</b> , 63, 329-336	17.6	46
24	The proteome of Mannheimia succiniciproducens, a capnophilic rumen bacterium. <i>Proteomics</i> , <b>2006</b> , 6, 3550-66	4.8	43
23	Highly selective production of succinic acid by metabolically engineered Mannheimia succiniciproducens and its efficient purification. <i>Biotechnology and Bioengineering</i> , <b>2016</b> , 113, 2168-77	4.9	42
22	Homo-succinic acid production by metabolically engineered Mannheimia succiniciproducens. <i>Metabolic Engineering</i> , <b>2016</b> , 38, 409-417	9.7	40
21	From genome sequence to integrated bioprocess for succinic acid production by Mannheimia succiniciproducens. <i>Applied Microbiology and Biotechnology</i> , <b>2008</b> , 79, 11-22	5.7	40
20	Development of sucrose-utilizing Escherichia coli K-12 strain by cloning $\beta$ -fructofuranosidases and its application for L-threonine production. <i>Applied Microbiology and Biotechnology</i> , <b>2010</b> , 88, 905-13	5.7	39

19	Enhanced proteome profiling by inhibiting proteolysis with small heat shock proteins. <i>Journal of Proteome Research</i> , <b>2005</b> , 4, 2429-34	5.6	23
18	Rapid, Low-Cost Detection of Water Contaminants Using Regulated In Vitro Transcription		17
17	Mannheimia succiniciproducens phosphotransferase system for sucrose utilization. <i>Applied and Environmental Microbiology</i> , <b>2010</b> , 76, 1699-703	4.8	15
16	Proteome-based physiological analysis of the metabolically engineered succinic acid producer Mannheimia succiniciproducens LPK7. <i>Bioprocess and Biosystems Engineering</i> , <b>2010</b> , 33, 97-107	3.7	14
15	EcoProDB: the Escherichia coli protein database. <i>Bioinformatics</i> , <b>2007</b> , 23, 2501-3	7.2	13
14	Acetyl-CoA-derived biofuel and biochemical production in cyanobacteria: a mini review. <i>Journal of Applied Phycology</i> , <b>2020</b> , 32, 1643-1653	3.2	13
13	Genome-wide identification of the subcellular localization of the Escherichia coli B proteome using experimental and computational methods. <i>Proteomics</i> , <b>2011</b> , 11, 1213-27	4.8	10
12	Understanding and engineering of microbial cells based on proteomics and its conjunction with other omics studies. <i>Proteomics</i> , <b>2011</b> , 11, 721-43	4.8	10
11	Proteome-level responses of Escherichia coli to long-chain fatty acids and use of fatty acid inducible promoter in protein production. <i>Journal of Biomedicine and Biotechnology</i> , <b>2008</b> , 2008, 735101		9
10	Sensitive one-step isothermal detection of pathogen-derived RNAs		7
9	Genetic Biocontainment Systems for the Safe Use of Engineered Microorganisms. <i>Biotechnology and Bioprocess Engineering</i> , <b>2020</b> , 25, 974-984	3.1	6
8	Biosensor-Assisted Adaptive Laboratory Evolution for Violacein Production. <i>International Journal of Molecular Sciences</i> , <b>2021</b> , 22,	6.3	5
7	Detection of Coronaviruses Using RNA Toehold Switch Sensors. <i>International Journal of Molecular Sciences</i> , <b>2021</b> , 22,	6.3	5
6	Gas-Sensing Transcriptional Regulators. <i>Biotechnology Journal</i> , <b>2020</b> , 15, e1900345	5.6	4
5	Systems Metabolic Engineering of Escherichia coli for Chemicals, Materials, Biofuels, and Pharmaceuticals <b>2012</b> , 117-149		4
4	Cooperative Sequence Clustering and Decoding for DNA Storage System with Fountain Codes. <i>Bioinformatics</i> , <b>2021</b> ,	7.2	3
3	Cell-Free Transcription-Coupled CRISPR/Cas12a Assay for Prototyping Cyanobacterial Promoters. <i>ACS Synthetic Biology</i> , <b>2021</b> , 10, 1300-1307	5.7	3
2	Durable Superhydrophobic Poly(vinylidene fluoride) (PVDF)-Based Nanofibrous Membranes for Reusable Air Filters. <i>ACS Applied Polymer Materials</i> , <b>2022</b> , 4, 338-347	4.3	2

1 Biocompatible amphiphilic Janus nanoparticles with enhanced interfacial properties for colloidal surfactants.. *Journal of Colloid and Interface Science*, **2022**, 616, 488-498

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