

# Sang Woo Seo

## List of Publications by Year in descending order

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50  
papers

2,415  
citations

172457

29  
h-index

214800

47  
g-index

54  
all docs

54  
docs citations

54  
times ranked

2819  
citing authors

#	ARTICLE	IF	CITATIONS
1	Efficient Production of Naringin Acetate with Different Acyl Donors via Enzymatic Transesterification by Lipases. <i>International Journal of Environmental Research and Public Health</i> , 2022, 19, 2972.	2.6	6
2	A <i>Vibrio</i> -based microbial platform for accelerated lignocellulosic sugar conversion. , 2022, 15, .		6
3	Engineering <i>Vibrio</i> sp. SP1 for the production of carotenoids directly from brown macroalgae. <i>Computational and Structural Biotechnology Journal</i> , 2021, 19, 1531-1540.	4.1	8
4	Synthetic protein quality control to enhance full-length translation in bacteria. <i>Nature Chemical Biology</i> , 2021, 17, 421-427.	8.0	10
5	Synthetic biosensor accelerates evolution by rewiring carbon metabolism toward a specific metabolite. <i>Cell Reports</i> , 2021, 36, 109589.	6.4	18
6	Synthetic cellular communication-based screening for strains with improved 3-hydroxypropionic acid secretion. <i>Lab on A Chip</i> , 2021, 21, 4455-4463.	6.0	12
7	Engineering Tools for the Development of Recombinant Lactic Acid Bacteria. <i>Biotechnology Journal</i> , 2020, 15, e1900344.	3.5	22
8	Independent component analysis of <i>E. coli</i> 's transcriptome reveals the cellular processes that respond to heterologous gene expression. <i>Metabolic Engineering</i> , 2020, 61, 360-368.	7.0	36
9	Nanoelectrokinetic Selective Preconcentration Based on Ion Concentration Polarization. <i>Biochip Journal</i> , 2020, 14, 100-109.	4.9	17
10	Transcriptional Profiling of the Probiotic <i>Escherichia coli</i> Nissle 1917 Strain under Simulated Microgravity. <i>International Journal of Molecular Sciences</i> , 2020, 21, 2666.	4.1	22
11	Fabrication of Troponin I Biosensor Composed of Multi-Functional DNA Structure/Au Nanocrystal Using Electrochemical and Localized Surface Plasmon Resonance Dual-Detection Method. <i>Nanomaterials</i> , 2019, 9, 1000.	4.1	30
12	Complete Genome Sequence of Lactic Acid Bacterium <i>Pediococcus acidilactici</i> Strain ATCC 8042, an Autolytic Anti-bacterial Peptidoglycan Hydrolase Producer. <i>Biotechnology and Bioprocess Engineering</i> , 2019, 24, 483-487.	2.6	5
13	Cellular responses to reactive oxygen species are predicted from molecular mechanisms. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 14368-14373.	7.1	79
14	<i>Vibrio</i> sp. dhg as a platform for the biorefinery of brown macroalgae. <i>Nature Communications</i> , 2019, 10, 2486.	12.8	44
15	Synthetic biology for evolutionary engineering: from perturbation of genotype to acquisition of desired phenotype. <i>Biotechnology for Biofuels</i> , 2019, 12, 113.	6.2	36
16	Synthetic Regulatory Tools to Engineer Microbial Cell Factories for Chemical Production. , 2019, , 115-141.		0
17	Systems assessment of transcriptional regulation on central carbon metabolism by Cra and CRP. <i>Nucleic Acids Research</i> , 2018, 46, 2901-2917.	14.5	62
18	Design and optimization of genetically encoded biosensors for high-throughput screening of chemicals. <i>Current Opinion in Biotechnology</i> , 2018, 54, 18-25.	6.6	72

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19	Diffusiophoretic exclusion of colloidal particles for continuous water purification. <i>Lab on A Chip</i> , 2018, 18, 1713-1724.	6.0	42
20	RNA-based dynamic genetic controllers: development strategies and applications. <i>Current Opinion in Biotechnology</i> , 2018, 53, 1-11.	6.6	37
21	dCas9-mediated Nanoelectrokinetic Direct Detection of Target Gene for Liquid Biopsy. <i>Nano Letters</i> , 2018, 18, 7642-7650.	9.1	50
22	Systematic discovery of uncharacterized transcription factors in <i>Escherichia coli</i> K-12 MG1655. <i>Nucleic Acids Research</i> , 2018, 46, 10682-10696.	14.5	65
23	Synthetic auxotrophs for stable and tunable maintenance of plasmid copy number. <i>Metabolic Engineering</i> , 2018, 48, 121-128.	7.0	48
24	Elucidation of bacterial translation regulatory networks. <i>Current Opinion in Systems Biology</i> , 2017, 2, 84-90.	2.6	5
25	Revealing genome-scale transcriptional regulatory landscape of OmpR highlights its expanded regulatory roles under osmotic stress in <i>Escherichia coli</i> K-12 MG1655. <i>Scientific Reports</i> , 2017, 7, 2181.	3.3	35
26	Synthetic redesign of <i>Escherichia coli</i> for cadaverine production from galactose. <i>Biotechnology for Biofuels</i> , 2017, 10, 20.	6.2	34
27	Precise flux redistribution to glyoxylate cycle for 5-aminolevulinic acid production in <i>Escherichia coli</i> . <i>Metabolic Engineering</i> , 2017, 43, 1-8.	7.0	57
28	Pathway optimization by re-design of untranslated regions for L-tyrosine production in <i>Escherichia coli</i> . <i>Scientific Reports</i> , 2015, 5, 13853.	3.3	43
29	Riboselector. <i>Methods in Enzymology</i> , 2015, 550, 341-362.	1.0	17
30	Genome-wide Reconstruction of OxyR and SoxRS Transcriptional Regulatory Networks under Oxidative Stress in <i>Escherichia coli</i> K-12 MG1655. <i>Cell Reports</i> , 2015, 12, 1289-1299.	6.4	174
31	Decoding genome-wide GadE/WX-transcriptional regulatory networks reveals multifaceted cellular responses to acid stress in <i>Escherichia coli</i> . <i>Nature Communications</i> , 2015, 6, 7970.	12.8	87
32	The synthesis of single-walled carbon nanotubes with narrow diameter distribution using polymerized hemoglobin. <i>Carbon</i> , 2014, 69, 588-594.	10.3	5
33	Deciphering Fur transcriptional regulatory network highlights its complex role beyond iron metabolism in <i>Escherichia coli</i> . <i>Nature Communications</i> , 2014, 5, 4910.	12.8	241
34	Predictive combinatorial design of mRNA translation initiation regions for systematic optimization of gene expression levels. <i>Scientific Reports</i> , 2014, 4, 4515.	3.3	59
35	Synthetic RNA devices to expedite the evolution of metabolite-producing microbes. <i>Nature Communications</i> , 2013, 4, 1413.	12.8	140
36	Model-driven rebalancing of the intracellular redox state for optimization of a heterologous n-butanol pathway in <i>Escherichia coli</i> . <i>Metabolic Engineering</i> , 2013, 20, 56-62.	7.0	60

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37	Refactoring redox cofactor regeneration for high-yield biocatalysis of glucose to butyric acid in <i>Escherichia coli</i> . <i>Bioresource Technology</i> , 2013, 135, 568-573.	9.6	36
38	Predictive design of mRNA translation initiation region to control prokaryotic translation efficiency. <i>Metabolic Engineering</i> , 2013, 15, 67-74.	7.0	240
39	Synthetic biology: Tools to design microbes for the production of chemicals and fuels. <i>Biotechnology Advances</i> , 2013, 31, 811-817.	11.7	56
40	Synthetic regulatory RNAs as tools for engineering biological systems: Design and applications. <i>Chemical Engineering Science</i> , 2013, 103, 36-41.	3.8	5
41	Engineered <i>Escherichia coli</i> for simultaneous utilization of galactose and glucose. <i>Bioresource Technology</i> , 2013, 135, 564-567.	9.6	32
42	Butyrate production in engineered <i>Escherichia coli</i> with synthetic scaffolds. <i>Biotechnology and Bioengineering</i> , 2013, 110, 2790-2794.	3.3	88
43	Rational Engineering of Enzyme Allosteric Regulation through Sequence Evolution Analysis. <i>PLoS Computational Biology</i> , 2012, 8, e1002612.	3.2	71
44	Synthetic regulatory tools for microbial engineering. <i>Biotechnology and Bioprocess Engineering</i> , 2012, 17, 1-7.	2.6	30
45	Switching control of an essential gene for reprogramming of cellular phenotypes in <i>Escherichia coli</i> . <i>Biotechnology and Bioengineering</i> , 2012, 109, 1875-1880.	3.3	4
46	Engineering glyceraldehyde-3-phosphate dehydrogenase for switching control of glycolysis in <i>Escherichia coli</i> . <i>Biotechnology and Bioengineering</i> , 2012, 109, 2612-2619.	3.3	29
47	Easy access to efficient magnetically recyclable separation of histidine-tagged proteins using superparamagnetic nickel ferrite nanoparticle clusters. <i>Journal of Materials Chemistry</i> , 2011, 21, 6713.	6.7	32
48	A novel pathogen detection system based on high-resolution CE-SSCP using a triblock copolymer matrix. <i>Journal of Separation Science</i> , 2010, 33, 1639-1643.	2.5	26
49	Quantitative correlation between mRNA secondary structure around the region downstream of the initiation codon and translational efficiency in <i>Escherichia coli</i> . <i>Biotechnology and Bioengineering</i> , 2009, 104, 611-616.	3.3	45
50	Design of 5'-untranslated region variants for tunable expression in <i>Escherichia coli</i> . <i>Biochemical and Biophysical Research Communications</i> , 2007, 356, 136-141.	2.1	31