

Chueh Loo Poh

List of Publications by Year in descending order

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Version: 2024-02-01

47
papers

1,497
citations

394421

19
h-index

330143

37
g-index

52
all docs

52
docs citations

52
times ranked

1983
citing authors

#	ARTICLE	IF	CITATIONS
1	Genetic Circuit Design Principles. , 2022, , 339-381.		0
2	Highly Reversible Tunable Thermal-Repressible Split-T7 RNA Polymerases (Thermal-T7RNAPs) for Dynamic Gene Regulation. ACS Synthetic Biology, 2022, 11, 921-937.	3.8	13
3	Thermogenetics: Applications come of age. Biotechnology Advances, 2022, 55, 107907.	11.7	2
4	Single 3 rd -exonuclease-based multifragment DNA assembly method (SENAX). Scientific Reports, 2022, 12, 4004.	3.3	8
5	Engineered Nucleotide Chemicapacitive Microsensor Array Augmented with Physics-Guided Machine Learning for High-Throughput Screening of Cannabidiol. Small, 2022, 18, e2107659.	10.0	2
6	A model-driven approach towards rational microbial bioprocess optimization. Biotechnology and Bioengineering, 2021, 118, 305-318.	3.3	14
7	SynBiopython: an open-source software library for Synthetic Biology. Synthetic Biology, 2021, 6, .	2.2	9
8	Future trends in synthetic biology in Asia. Genetics & Genomics Next, 2021, 2, e10038.	1.5	10
9	Novel Modalities in DNA Data Storage. Trends in Biotechnology, 2021, 39, 990-1003.	9.3	23
10	Toward Multiplexed Optogenetic Circuits. Frontiers in Bioengineering and Biotechnology, 2021, 9, 804563.	4.1	7
11	Oligo Design with Single Primer Binding Site for High Capacity DNA-Based Data Storage. IEEE/ACM Transactions on Computational Biology and Bioinformatics, 2020, 17, 2176-2182.	3.0	10
12	A highly sensitive graphene oxide based label-free capacitive aptasensor for vanillin detection. Materials and Design, 2020, 186, 108208.	7.0	27
13	Capturing Multicellular System Designs Using Synthetic Biology Open Language (SBOL). ACS Synthetic Biology, 2020, 9, 2410-2417.	3.8	1
14	Thermodynamically Stable DNA Code Design using a Similarity Significance Model. , 2020, , .		3
15	Blue Light-Directed Cell Migration, Aggregation, and Patterning. Journal of Molecular Biology, 2020, 432, 3137-3148.	4.2	21
16	Genetic Circuit Design Principles. , 2020, , 1-44.		0
17	Optimized Code Design for Constrained DNA Data Storage With Asymmetric Errors. IEEE Access, 2019, 7, 84107-84121.	4.2	21
18	Building a global alliance of biofoundries. Nature Communications, 2019, 10, 2040.	12.8	167

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19	Construction of Bio-Constrained Code for DNA Data Storage. <i>IEEE Communications Letters</i> , 2019, 23, 963-966.	4.1	46
20	An Automated Biomodel Selection System (BMSS) for Gene Circuit Designs. <i>ACS Synthetic Biology</i> , 2019, 8, 1484-1497.	3.8	26
21	High capacity DNA data storage with variable-length Oligonucleotides using repeat accumulate code and hybrid mapping. <i>Journal of Biological Engineering</i> , 2019, 13, 89.	4.7	26
22	Cell-Free Optogenetic Gene Expression System. <i>ACS Synthetic Biology</i> , 2018, 7, 986-994.	3.8	31
23	Chitosan-nickel film based interferometric optical fiber sensor for label-free detection of histidine tagged proteins. <i>Biosensors and Bioelectronics</i> , 2018, 99, 578-585.	10.1	30
24	Programming the Dynamic Control of Bacterial Gene Expression with a Chimeric Ligand- and Light-Based Promoter System. <i>ACS Synthetic Biology</i> , 2018, 7, 2627-2639.	3.8	20
25	Regulating exopolysaccharide gene <i>wcaF</i> allows control of <i>Escherichia coli</i> biofilm formation. <i>Scientific Reports</i> , 2018, 8, 13127.	3.3	21
26	Designing and Assembling Plasmids for the Construction of <i>Escherichia coli</i> Biosensor for <i>Vibrio cholerae</i> Detection. <i>Methods in Molecular Biology</i> , 2018, 1772, 445-456.	0.9	1
27	Repurposing a Two-Component System-Based Biosensor for the Killing of <i>Vibrio cholerae</i> . <i>ACS Synthetic Biology</i> , 2017, 6, 1403-1415.	3.8	61
28	Deformable Registration-Based Super-resolution for Isotropic Reconstruction of 4-D MRI Volumes. <i>IEEE Journal of Biomedical and Health Informatics</i> , 2017, 21, 1617-1624.	6.3	7
29	Two cellular resource-based models linking growth and parts characteristics aids the study and optimisation of synthetic gene circuits. <i>Engineering Biology</i> , 2017, 1, 30-39.	1.8	3
30	Production of recombinant collagen: state of the art and challenges. <i>Engineering Biology</i> , 2017, 1, 18-23.	1.8	56
31	Biosensing <i>Vibrio cholerae</i> with Genetically Engineered <i>Escherichia coli</i> . <i>ACS Synthetic Biology</i> , 2016, 5, 1275-1283.	3.8	42
32	Blue light-mediated transcriptional activation and repression of gene expression in bacteria. <i>Nucleic Acids Research</i> , 2016, 44, 6994-7005.	14.5	101
33	Is Trunk Posture in Walking a Better Marker than Gait Speed in Predicting Decline in Function and Subsequent Frailty?. <i>Journal of the American Medical Directors Association</i> , 2016, 17, 65-70.	2.5	20
34	A preclinical evaluation of an autologous living hyaline-like cartilaginous graft for articular cartilage repair: a pilot study. <i>Scientific Reports</i> , 2015, 5, .	3.3	25
35	Layering genetic circuits to build a single cell, bacterial half adder. <i>BMC Biology</i> , 2015, 13, 40.	3.8	49
36	Region-based snake with edge constraint for segmentation of lymph nodes on CT images. <i>Computers in Biology and Medicine</i> , 2015, 60, 86-91.	7.0	7

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37	A novel neural-inspired learning algorithm with application to clinical risk prediction. Journal of Biomedical Informatics, 2015, 54, 305-314.	4.3	27
38	Engineering Electrode-Attached Microbial Consortia for High-Performance Xylose-Fed Microbial Fuel Cell. ACS Catalysis, 2015, 5, 6937-6945.	11.2	61
39	A preclinical evaluation of an autologous living hyaline-like cartilaginous graft for articular cartilage repair: a pilot study. Scientific Reports, 2015, 5, 16225.	3.3	14
40	Diffusion weighted magnetic resonance imaging and its recent trend-a survey. Quantitative Imaging in Medicine and Surgery, 2015, 5, 407-22.	2.0	113
41	A biological continuum based approach for efficient clinical classification. Journal of Biomedical Informatics, 2014, 47, 28-38.	4.3	7
42	Phantom-based evaluation of isotropic reconstruction of 4-D MRI volumes using super-resolution. , 2013, , .		2
43	Adapting registration-based-segmentation for efficient segmentation of thoracic 4D MRI. , 2013, , .		1
44	Chitosan-Coated Polarization Maintaining Fiber-Based Sagnac Interferometer for Relative Humidity Measurement. IEEE Journal of Selected Topics in Quantum Electronics, 2012, 18, 1597-1604.	2.9	38
45	Engineering microbes to sense and eradicate <i>Pseudomonas aeruginosa</i> , a human pathogen. Molecular Systems Biology, 2011, 7, 521.	7.2	310
46	Anterior Cruciate Ligament Segmentation: Using Morphological Operations with Active Contour. International Conference on Bioinformatics and Biomedical Engineering: [proceedings] International Conference on Bioinformatics and Biomedical Engineering, 2010, , .	0.0	7
47	Automatic Identification of Corresponding CT Images Having the Same Lymph Node in Longitudinal Studies. International Conference on Bioinformatics and Biomedical Engineering: [proceedings] International Conference on Bioinformatics and Biomedical Engineering, 2010, , .	0.0	0