Chueh Loo Poh

List of Publications by Year
in descending order

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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	Engineering microbes to sense and eradicate Pseudomonas aeruginosa , a human pathogen. Molecular Systems Biology, 2011, 7, 521.	7.2	310
2	Building a global alliance of biofoundries. Nature Communications, 2019, 10, 2040.	12.8	167
3	Diffusion weighted magnetic resonance imaging and its recent trend-a survey. Quantitative Imaging in Medicine and Surgery, 2015, 5, 407-22.	2.0	113
4	Blue light-mediated transcriptional activation and repression of gene expression in bacteria. Nucleic Acids Research, 2016, 44, 6994-7005.	14.5	101
5	Engineering Electrode-Attached Microbial Consortia for High-Performance Xylose-Fed Microbial Fuel Cell. ACS Catalysis, 2015, 5, 6937-6945.	11.2	61
6	Repurposing a Two-Component System-Based Biosensor for the Killing of Vibrio cholerae. ACS Synthetic Biology, 2017, 6, 1403-1415.	3.8	61
7	Production of recombinant collagen: state of the art and challenges. Engineering Biology, 2017, 1, 18-23.	1.8	56
8	Layering genetic circuits to build a single cell, bacterial half adder. BMC Biology, 2015, 13, 40.	3.8	49
9	Construction of Bio-Constrained Code for DNA Data Storage. IEEE Communications Letters, 2019, 23, 963-966.	4.1	46
10	Biosensing Vibrio cholerae with Genetically Engineered Escherichia coli. ACS Synthetic Biology, 2016, 5, 1275-1283.	3.8	42
11	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
12	Cell-Free Optogenetic Gene Expression System. ACS Synthetic Biology, 2018, 7, 986-994.	3.8	31
13	Chitosan-nickel film based interferometric optical fiber sensor for label-free detection of histidine tagged proteins. Biosensors and Bioelectronics, 2018, 99, 578-585.	10.1	30
14	A novel neural-inspired learning algorithm with application to clinical risk prediction. Journal of Biomedical Informatics, 2015, 54, 305-314.	4.3	27
15	A highly sensitive graphene oxide based label-free capacitive aptasensor for vanillin detection. Materials and Design, 2020, 186, 108208.	7.0	27
16	An Automated Biomodel Selection System (BMSS) for Gene Circuit Designs. ACS Synthetic Biology, 2019, 8, 1484-1497.	3.8	26
17	High capacity DNA data storage with variable-length Oligonucleotides using repeat accumulate code and hybrid mapping. Journal of Biological Engineering, 2019, 13, 89.	4.7	26
18	A preclinical evaluation of an autologous living hyaline-like cartilaginous graft for articular cartilage repair: a pilot study. Scientific Reports, 2015, 5, .	3.3	25

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19	Novel Modalities in DNA Data Storage. Trends in Biotechnology, 2021, 39, 990-1003.	9.3	23
20	Regulating exopolysaccharide gene wcaF allows control of Escherichia coli biofilm formation. Scientific Reports, 2018, 8, 13127.	3.3	21
21	Optimized Code Design for Constrained DNA Data Storage With Asymmetric Errors. IEEE Access, 2019, 7, 84107-84121.	4.2	21
22	Blue Light-Directed Cell Migration, Aggregation, and Patterning. Journal of Molecular Biology, 2020, 432, 3137-3148.	4.2	21
23	Is Trunk Posture in Walking a Better Marker than Gait Speed in Predicting Decline in Function and Subsequent Frailty?. Journal of the American Medical Directors Association, 2016, 17, 65-70.	2.5	20
24	Programming the Dynamic Control of Bacterial Gene Expression with a Chimeric Ligand- and Light-Based Promoter System. ACS Synthetic Biology, 2018, 7, 2627-2639.	3.8	20
25	A modelâ€driven approach towards rational microbial bioprocess optimization. Biotechnology and Bioengineering, 2021, 118, 305-318.	3.3	14
26	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
27	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
28	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
29	Future trends in synthetic biology in Asia. Genetics & Genomics Next, 2021, 2, e10038.	1.5	10
30	SynBiopython: an open-source software library for Synthetic Biology. Synthetic Biology, 2021, 6, .	2.2	9
31	Single 3â€²-exonuclease-based multifragment DNA assembly method (SENAX). Scientific Reports, 2022, 12, 4004.	3.3	8
32	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
33	A biological continuum based approach for efficient clinical classification. Journal of Biomedical Informatics, 2014, 47, 28-38.	4.3	7
34	Region-based snake with edge constraint for segmentation of lymph nodes on CT images. Computers in Biology and Medicine, 2015, 60, 86-91.	7.0	7
35	Deformable Registration-Based Super-resolution for Isotropic Reconstruction of 4-D MRI Volumes. IEEE Journal of Biomedical and Health Informatics, 2017, 21, 1617-1624.	6.3	7
36	Toward Multiplexed Optogenetic Circuits. Frontiers in Bioengineering and Biotechnology, 2021, 9, 804563.	4.1	7

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37	Two cellular resourceâ€based models linking growth and parts characteristics aids the study and optimisation of synthetic gene circuits. Engineering Biology, 2017, 1, 30-39.	1.8	3
38	Thermodynamically Stable DNA Code Design using a Similarity Significance Model. , 2020, , .		3
39	Phantom-based evaluation of isotropic reconstruction of 4-D MRI volumes using super-resolution. , 2013, , .		2
40	Thermogenetics: Applications come of age. Biotechnology Advances, 2022, 55, 107907.	11.7	2
41	Engineered Nucleotide Chemicapacitive Microsensor Array Augmented with Physicsâ€Guided Machine Learning for Highâ€Throughput Screening of Cannabidiol. Small, 2022, 18, e2107659.	10.0	2
42	Adapting registration-based-segmentation for efficient segmentation of thoracic 4D MRI. , 2013, , .		1
43	Designing and Assembling Plasmids for the Construction of Escherichia coli Biosensor for Vibrio cholerae Detection. Methods in Molecular Biology, 2018, 1772, 445-456.	0.9	1
44	Capturing Multicellular System Designs Using Synthetic Biology Open Language (SBOL). ACS Synthetic Biology, 2020, 9, 2410-2417.	3.8	1
45	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
46	Genetic Circuit Design Principles. , 2022, , 339-381.		0
47	Genetic Circuit Design Principles. , 2020, , 1-44.		0