

# Baojun Wang

## List of Publications by Year in descending order

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47  
papers

2,108  
citations

304602

22  
h-index

276775

41  
g-index

53  
all docs

53  
docs citations

53  
times ranked

1923  
citing authors

#	ARTICLE	IF	CITATIONS
1	Engineering modular and orthogonal genetic logic gates for robust digital-like synthetic biology. <i>Nature Communications</i> , 2011, 2, 508.	5.8	330
2	Cascaded amplifying circuits enable ultrasensitive cellular sensors for toxic metals. <i>Nature Chemical Biology</i> , 2019, 15, 540-548.	3.9	199
3	A modular cell-based biosensor using engineered genetic logic circuits to detect and integrate multiple environmental signals. <i>Biosensors and Bioelectronics</i> , 2013, 40, 368-376.	5.3	191
4	CyanoGate: A Modular Cloning Suite for Engineering Cyanobacteria Based on the Plant MoClo Syntax. <i>Plant Physiology</i> , 2019, 180, 39-55.	2.3	123
5	Engineering modular and tunable genetic amplifiers for scaling transcriptional signals in cascaded gene networks. <i>Nucleic Acids Research</i> , 2014, 42, 9484-9492.	6.5	109
6	Amplification of small molecule-inducible gene expression via tuning of intracellular receptor densities. <i>Nucleic Acids Research</i> , 2015, 43, 1955-1964.	6.5	98
7	Synthetic Biology Enables Programmable Cell-Based Biosensors. <i>ChemPhysChem</i> , 2020, 21, 132-144.	1.0	94
8	Engineered CRISPRa enables programmable eukaryote-like gene activation in bacteria. <i>Nature Communications</i> , 2019, 10, 3693.	5.8	90
9	Tools and Principles for Microbial Gene Circuit Engineering. <i>Journal of Molecular Biology</i> , 2016, 428, 862-888.	2.0	87
10	Customizing cell signaling using engineered genetic logic circuits. <i>Trends in Microbiology</i> , 2012, 20, 376-384.	3.5	78
11	Scaling up genetic circuit design for cellular computing: advances and prospects. <i>Natural Computing</i> , 2018, 17, 833-853.	1.8	56
12	Comprehensive Profiling of Diverse Genetic Reporters with Application to Whole-Cell and Cell-Free Biosensors. <i>Analytical Chemistry</i> , 2019, 91, 15284-15292.	3.2	56
13	Orthogonality and Burdens of Heterologous AND Gate Gene Circuits in <i>E. coli</i> . <i>ACS Synthetic Biology</i> , 2018, 7, 553-564.	1.9	49
14	An expanded library of orthogonal split inteins enables modular multi-peptide assemblies. <i>Nature Communications</i> , 2020, 11, 1529.	5.8	49
15	Recognizing and engineering digital-like logic gates and switches in gene regulatory networks. <i>Current Opinion in Microbiology</i> , 2016, 33, 74-82.	2.3	44
16	Emerging Species and Genome Editing Tools: Future Prospects in Cyanobacterial Synthetic Biology. <i>Microorganisms</i> , 2019, 7, 409.	1.6	39
17	A novel water-soluble sulfonated porphyrin fluorescence sensor for sensitive assays of H <sub>2</sub> O <sub>2</sub> and glucose. <i>Analyst</i> , 2015, 140, 1655-1661.	1.7	38
18	Designer cell signal processing circuits for biotechnology. <i>New Biotechnology</i> , 2015, 32, 635-643.	2.4	35

#	ARTICLE	IF	CITATIONS
19	Rapid engineering of versatile molecular logic gates using heterologous genetic transcriptional modules. <i>Chemical Communications</i> , 2014, 50, 11642-11644.	2.2	33
20	Orthogonal paper biosensor for mercury(II) combining bioluminescence and colorimetric smartphone detection. <i>Biosensors and Bioelectronics</i> , 2021, 194, 113569.	5.3	32
21	Phage engineering: how advances in molecular biology and synthetic biology are being utilized to enhance the therapeutic potential of bacteriophages. <i>Quantitative Biology</i> , 2017, 5, 42-54.	0.3	27
22	Synthetic protein-binding DNA sponge as a tool to tune gene expression and mitigate protein toxicity. <i>Nature Communications</i> , 2020, 11, 5961.	5.8	27
23	Rewiring cell signalling through chimaeric regulatory protein engineering. <i>Biochemical Society Transactions</i> , 2013, 41, 1195-1200.	1.6	21
24	Engineering the Ultrasensitive Transcription Factors by Fusing a Modular Oligomerization Domain. <i>ACS Synthetic Biology</i> , 2018, 7, 1188-1194.	1.9	18
25	Reprogrammed tracrRNAs enable repurposing of RNAs as crRNAs and sequence-specific RNA biosensors. <i>Nature Communications</i> , 2022, 13, 1937.	5.8	17
26	Synthetic Cell-Based Sensors with Programmed Selectivity and Sensitivity. <i>Methods in Molecular Biology</i> , 2017, 1572, 349-363.	0.4	16
27	A systematic approach to inserting split inteins for Boolean logic gate engineering and basal activity reduction. <i>Nature Communications</i> , 2021, 12, 2200.	5.8	16
28	EEG Recognition Based on Multiple Types of Information by Using Wavelet Packet Transform and Neural Networks. , 2005, 2005, 5377-80.		13
29	Engineering Prokaryote Synthetic Biology Biosensors. , 2019, , 1-37.		12
30	Programming living sensors for environment, health and biomanufacturing. <i>Microbial Biotechnology</i> , 2021, 14, 2334-2342.	2.0	12
31	Synthetic biology enables field-deployable biosensors for water contaminants. <i>TrAC - Trends in Analytical Chemistry</i> , 2022, 146, 116507.	5.8	12
32	Rational Design and Characterization of Nitric Oxide Biosensors in <i>E. coli</i> Nissle 1917 and Mini SimCells. <i>ACS Synthetic Biology</i> , 2021, 10, 2566-2578.	1.9	10
33	Squeeze-and-breathe evolutionary Monte Carlo optimization with local search acceleration and its application to parameter fitting. <i>Journal of the Royal Society Interface</i> , 2012, 9, 1925-1933.	1.5	9
34	Synthetic Biology Enables Programmable Cell-Based Biosensors. <i>ChemPhysChem</i> , 2020, 21, 131-131.	1.0	9
35	<i>De Novo</i> Design of the ArsR Regulated P <sub>ars</sub> Promoter Enables a Highly Sensitive Whole-Cell Biosensor for Arsenic Contamination. <i>Analytical Chemistry</i> , 2022, 94, 7210-7218.	3.2	9
36	Genetic Modification of Cyanobacteria by Conjugation Using the CyanoGate Modular Cloning Toolkit. <i>Journal of Visualized Experiments</i> , 2019, , .	0.2	8

#	ARTICLE	IF	CITATIONS
37	Determination of the Self-Association Residues within a Homomeric and a Heteromeric AAA+ Enhancer Binding Protein. <i>Journal of Molecular Biology</i> , 2014, 426, 1692-1710.	2.0	6
38	A Novel Eukaryote-Like CRISPR Activation Tool in Bacteria: Features and Capabilities. <i>BioEssays</i> , 2020, 42, e1900252.	1.2	6
39	Evaluation and Comparison of the Efficiency of Transcription Terminators in Different Cyanobacterial Species. <i>Frontiers in Microbiology</i> , 2020, 11, 624011.	1.5	6
40	Sense and sensibility: of synthetic biology and the redesign of bioreporter circuits. <i>Microbial Biotechnology</i> , 2022, 15, 103-106.	2.0	5
41	Synthetic microbial consortia with programmable ecological interactions. <i>Methods in Ecology and Evolution</i> , 2022, 13, 1608-1621.	2.2	5
42	Study of A Chaotic Olfactory Neural Network Model and Its Applications on Pattern Classification. , 2005, 2005, 3640-3.		3
43	Synthetic transcription factors allow regulon wide control and shifting the nitrogen/carbon balance in bacteria. <i>New Biotechnology</i> , 2014, 31, S22.	2.4	1
44	Engineering Prokaryote Synthetic Biology Biosensors. , 2022, , 283-318.		1
45	Complexity and Topographic Analysis of EEG under Normal and Simulated High Altitude Acute Hypoxia Conditions. , 0, ,		0
46	Engineering customised cell signalling circuits and their biotechnological applications. <i>New Biotechnology</i> , 2014, 31, S45.	2.4	0
47	New Tools for Rapid and Sensitive Detection of Water Contamination: Whole-Cell Biosensors and Cell-Free TX-TL Systems. <i>NATO Science for Peace and Security Series A: Chemistry and Biology</i> , 2020, , 239-241.	0.5	0