

# Yutaka Hori

## List of Publications by Year in descending order

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Version: 2024-02-01

34  
papers

604  
citations

933447

10  
h-index

940533

16  
g-index

38  
all docs

38  
docs citations

38  
times ranked

584  
citing authors

#	ARTICLE	IF	CITATIONS
1	Rapid cell-free forward engineering of novel genetic ring oscillators. <i>ELife</i> , 2015, 4, e09771.	6.0	214
2	A population-based temporal logic gate for timing and recording chemical events. <i>Molecular Systems Biology</i> , 2016, 12, 869.	7.2	88
3	Existence criteria of periodic oscillations in cyclic gene regulatory networks. <i>Automatica</i> , 2011, 47, 1203-1209.	5.0	58
4	Cell-free extract based optimization of biomolecular circuits with droplet microfluidics. <i>Lab on A Chip</i> , 2017, 17, 3037-3042.	6.0	41
5	Biochemical oscillations in delayed negative cyclic feedback: Existence and profiles. <i>Automatica</i> , 2013, 49, 2581-2590.	5.0	33
6	Optimization-based synthesis of stochastic biocircuits with statistical specifications. <i>Journal of the Royal Society Interface</i> , 2018, 15, 20170709.	3.4	19
7	Coordinated Spatial Pattern Formation in Biomolecular Communication Networks. <i>IEEE Transactions on Molecular, Biological, and Multi-Scale Communications</i> , 2015, 1, 111-121.	2.1	17
8	Intercellular Delay Regulates the Collective Period of Repressively Coupled Gene Regulatory Oscillator Networks. <i>IEEE Transactions on Automatic Control</i> , 2014, 59, 211-216.	5.7	13
9	A convex approach to steady state moment analysis for stochastic chemical reactions. , 2017, , .		13
10	Robust stability analysis for LTI systems with generalized frequency variables and its application to gene regulatory networks. <i>Automatica</i> , 2019, 105, 96-106.	5.0	12
11	Microfiber-Shaped Programmable Materials with Stimuli-Responsive Hydrogel. <i>Soft Robotics</i> , 2022, 9, 89-97.	8.0	11
12	Graphical and analytic criteria for the existence of protein level oscillations in cyclic gene regulatory networks. , 2009, , .		9
13	Turing instability in reaction-diffusion systems with a single diffuser: Characterization based on root locus. , 2013, , .		9
14	The collective oscillation period of inter-coupled Goodwin oscillators. , 2012, , .		8
15	Bounding Transient Moments of Stochastic Chemical Reactions. , 2019, 3, 290-295.		8
16	Oscillation pattern analysis for gene regulatory networks with negative cyclic feedback. , 2010, , .		7
17	Noise-induced spatial pattern formation in stochastic reaction-diffusion systems. , 2012, , .		7
18	Time delay effects on oscillation profiles in cyclic gene regulatory networks: Harmonic balance approach. , 2011, , .		6

#	ARTICLE	IF	CITATIONS
19	Existence conditions for oscillations in cyclic gene regulatory networks with time delay. , 2010, , .		4
20	A Quartz Crystal Microbalance Based Portable Gas Sensing Platform for On-Demand Human Breath Monitoring. IEEE Access, 2020, 8, 146166-146171.	4.2	4
21	Efficient parameter identification for stochastic biochemical networks using a reduced-order realization. , 2013, , .		3
22	Analysing diffusion and flow-driven instability using semidefinite programming. Journal of the Royal Society Interface, 2019, 16, 20180586.	3.4	3
23	Robust Instability Analysis with Application to Neuronal Dynamics. , 2020, , .		3
24	A parametric logistic equation with light flux and medium concentration for cultivation planning of microalgae. Journal of the Royal Society Interface, 2022, 19, .	3.4	3
25	Periodic oscillations in cyclic repressor networks: Analytic existence criteria with biological insight. , 2010, , .		2
26	Engineering principles of synthetic biochemical oscillators with negative cyclic feedback. , 2015, , .		2
27	Modeling and Analysis of Stochastic Reaction Kinetics in Biomolecular Systems. New Generation Computing, 2020, 38, 367-377.	3.3	2
28	Finite-Time Stability Analysis for Resource Limited Chemical Reactions. , 2021, 5, 815-820.		2
29	Hierarchical Modeling and Local Stability Analysis for Repressilators Coupled by Quorum Sensing. SICE Journal of Control Measurement and System Integration, 2014, 7, 133-140.	0.7	1
30	Instability margin analysis for parametrized LTI systems with application to repressilator. Automatica, 2022, 136, 110047.	5.0	1
31	Time evolution of microenvironment around cells regulated by the secretion activity and culture density of the cells. , 2017, , .		0
32	Model-based feedback control of synthetic biomolecular circuits. , 2017, , .		0
33	Semidefinite programming for Turing instability analysis in molecular communication networks. , 2019, , .		0
34	Spatial Frequency based Characterization of Disturbance Rejection in Molecular Communication Systems. IEEE Transactions on Molecular, Biological, and Multi-Scale Communications, 2021, , 1-1.	2.1	0