

# 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	Microfiber-Shaped Programmable Materials with Stimuli-Responsive Hydrogel. <i>Soft Robotics</i> , 2022, 9, 89-97.	8.0	11
2	Instability margin analysis for parametrized LTI systems with application to repressilator. <i>Automatica</i> , 2022, 136, 110047.	5.0	1
3	A parametric logistic equation with light flux and medium concentration for cultivation planning of microalgae. <i>Journal of the Royal Society Interface</i> , 2022, 19, .	3.4	3
4	Finite-Time Stability Analysis for Resource Limited Chemical Reactions. , 2021, 5, 815-820.		2
5	Spatial Frequency based Characterization of Disturbance Rejection in Molecular Communication Systems. <i>IEEE Transactions on Molecular, Biological, and Multi-Scale Communications</i> , 2021, , 1-1.	2.1	0
6	A Quartz Crystal Microbalance Based Portable Gas Sensing Platform for On-Demand Human Breath Monitoring. <i>IEEE Access</i> , 2020, 8, 146166-146171.	4.2	4
7	Modeling and Analysis of Stochastic Reaction Kinetics in Biomolecular Systems. <i>New Generation Computing</i> , 2020, 38, 367-377.	3.3	2
8	Robust Instability Analysis with Application to Neuronal Dynamics. , 2020, , .		3
9	Analysing diffusion and flow-driven instability using semidefinite programming. <i>Journal of the Royal Society Interface</i> , 2019, 16, 20180586.	3.4	3
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	Semidefinite programming for Turing instability analysis in molecular communication networks. , 2019, , .		0
12	Bounding Transient Moments of Stochastic Chemical Reactions. , 2019, 3, 290-295.		8
13	Optimization-based synthesis of stochastic biocircuits with statistical specifications. <i>Journal of the Royal Society Interface</i> , 2018, 15, 20170709.	3.4	19
14	Cell-free extract based optimization of biomolecular circuits with droplet microfluidics. <i>Lab on A Chip</i> , 2017, 17, 3037-3042.	6.0	41
15	A convex approach to steady state moment analysis for stochastic chemical reactions. , 2017, , .		13
16	Time evolution of microenvironment around cells regulated by the secretion activity and culture density of the cells. , 2017, , .		0
17	Model-based feedback control of synthetic biomolecular circuits. , 2017, , .		0
18	A population-based temporal logic gate for timing and recording chemical events. <i>Molecular Systems Biology</i> , 2016, 12, 869.	7.2	88

#	ARTICLE	IF	CITATIONS
19	Engineering principles of synthetic biochemical oscillators with negative cyclic feedback. , 2015, , .		2
20	Coordinated Spatial Pattern Formation in Biomolecular Communication Networks. IEEE Transactions on Molecular, Biological, and Multi-Scale Communications, 2015, 1, 111-121.	2.1	17
21	Rapid cell-free forward engineering of novel genetic ring oscillators. ELife, 2015, 4, e09771.	6.0	214
22	Intercellular Delay Regulates the Collective Period of Repressively Coupled Gene Regulatory Oscillator Networks. IEEE Transactions on Automatic Control, 2014, 59, 211-216.	5.7	13
23	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
24	Biochemical oscillations in delayed negative cyclic feedback: Existence and profiles. Automatica, 2013, 49, 2581-2590.	5.0	33
25	Turing instability in reaction-diffusion systems with a single diffuser: Characterization based on root locus. , 2013, , .		9
26	Efficient parameter identification for stochastic biochemical networks using a reduced-order realization. , 2013, , .		3
27	Noise-induced spatial pattern formation in stochastic reaction-diffusion systems. , 2012, , .		7
28	The collective oscillation period of inter-coupled Goodwin oscillators. , 2012, , .		8
29	Existence criteria of periodic oscillations in cyclic gene regulatory networks. Automatica, 2011, 47, 1203-1209.	5.0	58
30	Time delay effects on oscillation profiles in cyclic gene regulatory networks: Harmonic balance approach. , 2011, , .		6
31	Oscillation pattern analysis for gene regulatory networks with negative cyclic feedback. , 2010, , .		7
32	Periodic oscillations in cyclic repressor networks: Analytic existence criteria with biological insight. , 2010, , .		2
33	Existence conditions for oscillations in cyclic gene regulatory networks with time delay. , 2010, , .		4
34	Graphical and analytic criteria for the existence of protein level oscillations in cyclic gene regulatory networks. , 2009, , .		9