

Muhammad Ali Al-Radhawi

List of Publications by Year in descending order

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Version: 2024-02-01

25
papers

260
citations

1306789

7
h-index

1125271

13
g-index

31
all docs

31
docs citations

31
times ranked

179
citing authors

#	ARTICLE	IF	CITATIONS
1	New Approach to the Stability of Chemical Reaction Networks: Piecewise Linear in Rates Lyapunov Functions. IEEE Transactions on Automatic Control, 2016, 61, 76-89.	3.6	51
2	Multi-modality in gene regulatory networks with slow promoter kinetics. PLoS Computational Biology, 2019, 15, e1006784.	1.5	29
3	Delicate Balances in Cancer Chemotherapy: Modeling Immune Recruitment and Emergence of Systemic Drug Resistance. Frontiers in Immunology, 2020, 11, 1376.	2.2	23
4	Distributed Implementation of Boolean Functions by Transcriptional Synthetic Circuits. ACS Synthetic Biology, 2020, 9, 2172-2187.	1.9	18
5	Robust Lyapunov functions for Complex Reaction Networks: An uncertain system framework. , 2014, , .		14
6	A computational framework for a Lyapunov-enabled analysis of biochemical reaction networks. PLoS Computational Biology, 2020, 16, e1007681.	1.5	14
7	Long-Term Regulation of Prolonged Epidemic Outbreaks in Large Populations via Adaptive Control: A Singular Perturbation Approach. , 2022, 6, 578-583.		14
8	All possible second-order four-impedance two-stage Colpitts oscillators. IET Circuits, Devices and Systems, 2011, 5, 196.	0.9	13
9	A mathematical model exhibiting the effect of DNA methylation on the stability boundary in cell-fate networks. Epigenetics, 2021, 16, 436-457.	1.3	13
10	Piecewise Linear in rates Lyapunov functions for Complex Reaction Networks. , 2013, , .		11
11	Derivation of stationary distributions of biochemical reaction networks via structure transformation. Communications Biology, 2021, 4, 620.	2.0	8
12	No Switching Policy Is Optimal for a Positive Linear System With a Bottleneck Entrance. , 2019, 3, 889-894.		7
13	Mediating Ribosomal Competition by Splitting Pools. , 2021, 5, 1555-1560.		7
14	Maximizing average throughput in oscillatory biochemical synthesis systems: an optimal control approach. Royal Society Open Science, 2021, 8, 210878.	1.1	6
15	A Robust Lyapunov Criterion for Nonoscillatory Behaviors in Biological Interaction Networks. IEEE Transactions on Automatic Control, 2022, 67, 3305-3320.	3.6	6
16	A synthetic distributed genetic multi-bit counter. IScience, 2021, 24, 103526.	1.9	6
17	Decentralised - filtering of networked control systems: a jump system approach. International Journal of Systems Science, 2014, 45, 2182-2195.	3.7	4
18	Construction of robust Lyapunov functions for reaction networks. , 2016, , .		3

#	ARTICLE	IF	CITATIONS
19	Some Remarks on Robust Gene Regulation in a Biomolecular Integral Controller. , 2019, , .		3
20	Stochastic analysis of genetic feedback controllers to reprogram a pluripotency gene regulatory network. , 2019, 2019, 5089-5096.		3
21	Stochastic multistationarity in a model of the hematopoietic stem cell differentiation network. , 2018, 2018, 1886-1892.		2
22	Model reduction of flat-plate solar collector using time-space discretization. , 2010, , .		1
23	Parameter estimation of superimposed damped sinusoids using exponential windows. Signal Processing, 2014, 100, 16-22.	2.1	1
24	Mediating Ribosomal Competition by Splitting Pools. , 2021, , .		1
25	Reduced order models for flat-plate solar collectors. , 2011, , .		0