Tadashi Nakano

List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/8786700/publications.pdf

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69 papers

2,965 citations

³⁹⁴²⁸⁶
19
h-index

254106 43 g-index

73 all docs

73 docs citations

times ranked

73

1160 citing authors

#	Article	IF	CITATIONS
1	Bionanomachine Diagnostics and Nanonetwork Therapeutic in Brain Malignancies With Bionanodevice Interfaces. IEEE Transactions on Molecular, Biological, and Multi-Scale Communications, 2022, 8, 28-35.	1.4	5
2	A brief review on DNA storage, compression, and digitalization. Nano Communication Networks, 2022, 31, 100391.	1.6	11
3	Editorial: Biologically Inspired Computing and Networking. Mobile Networks and Applications, 2021, 26, 1344-1346.	2.2	1
4	Modeling Gene Expression and Protein Delivery as an End-to-End Digital Communication System. Open Bioinformatics Journal, 2021, 14, 21-35.	1.0	4
5	Mobile Molecular Communication Through Multiple Measurements of the Concentration of Molecules. IEEE Access, 2020, 8, 179606-179615.	2.6	8
6	Intracellular ATP levels influence cell fates in <i>Dictyostelium discoideum</i> differentiation. Genes To Cells, 2020, 25, 312-326.	0.5	7
7	Roles of Remote and Contact Forces in Epithelial Cell Structure Formation. Biophysical Journal, 2020, 118, 1466-1478.	0.2	10
8	Enhanced vibrational resonance in a single neuron with chemical autapse for signal detection*. Chinese Physics B, 2020, 29, 128702.	0.7	9
9	Binary Concentration Shift Keying with Multiple Measurements of Molecule Concentration in Mobile Molecular Communication. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2020, , 42-51.	0.2	2
10	Growing Bio-nanomachine Networks: Application to Malignant Tumor Evolution and Progression. , 2020, , .		5
11	Applications of Molecular Communication Systems. , 2020, , 31-37.		O
12	Cooperative signaling and directed migration of bio-nanomachines in mobile molecular communication. , 2020, , .		2
13	Data-driven Simulation of Epidemic Information Dissemination in Mobile Molecular Communication. , 2019, , .		O
14	Chemotaxis-based Multi-hop Molecular Nanonetworks for Target Detection., 2019,,.		3
15	Methods and Applications of Mobile Molecular Communication. Proceedings of the IEEE, 2019, 107, 1442-1456.	16.4	59
16	Inhibitory-autapse-enhanced signal transmission in neural networks. Nonlinear Dynamics, 2019, 97, 1425-1437.	2.7	48
17	Guest Editorial Special Section on Molecular Communications for Interfacing and Modeling Living Systems. IEEE Transactions on Nanobioscience, 2019, 18, 28-30.	2.2	O
18	Random Cell Motion Enhances the Capacity of Cell-Cell Communication. IEEE Transactions on Molecular, Biological, and Multi-Scale Communications, 2019, 5, 158-162.	1.4	10

#	Article	IF	CITATIONS
19	Calcium Signaling in Mobile Molecular Communication Networks. , 2019, , .		5
20	Graph-Based Modeling of Mobile Molecular Communication Systems. IEEE Communications Letters, 2018, 22, 376-379.	2.5	14
21	Design and wet-laboratory implementation of reliable end-to-end molecular communication. Wireless Networks, 2018, 24, 1809-1819.	2.0	10
22	Bio-Inspired Design and Implementation of Mobile Molecular Communication Systems at the Macroscale. , 2018, , .		12
23	Epidemic Information Dissemination in Mobile Molecular Communication Systems., 2018,,.		6
24	Stochastic Channel Switching of Frequency-Encoded Signals in Molecular Communication Networks. IEEE Communications Letters, 2018, 22, 332-335.	2.5	11
25	Molecular Communication: A Personal Perspective. IEEE Transactions on Nanobioscience, 2018, 17, 424-432.	2.2	17
26	Spiking patterns of a neuron model to stimulus: Rich dynamics and oxygen's role. Chaos, 2018, 28, 083112.	1.0	9
27	Modeling and simulations of bio-nanomachines for spatiotemporal pattern formation. , 2018, , .		8
28	A Mathematical Model of Non-Diffusion-Based Mobile Molecular Communication Networks. IEEE Communications Letters, 2017, 21, 1969-1972.	2.5	26
29	Molecular Communication Using Dynamic Properties of Oscillating and Propagating Patterns in Concentration of Information Molecules. IEEE Transactions on Communications, 2017, , 1-1.	4.9	13
30	Channel Switching in Molecular Communication Networks through Calcium Signaling., 2017,,.		8
31	Molecular Communication: A 10 Year Retrospective. IEEE Transactions on Molecular, Biological, and Multi-Scale Communications, 2017, 3, 71-78.	1.4	56
32	Performance Evaluation of Leader–Follower-Based Mobile Molecular Communication Networks for Target Detection Applications. IEEE Transactions on Communications, 2017, 65, 663-676.	4.9	65
33	Touchable Computing: Computing-Inspired Bio-Detection. IEEE Transactions on Nanobioscience, 2017, 16, 810-821.	2.2	29
34	Performance Optimization of Self-organizing Bioparticles for Multi-target Detection and Gravitation Problems. , 2017, , .		1
35	Modeling Multi-Target Detection and Gravitation by Intelligent Self-Organizing Bioparticles. , 2016, , .		6
36	Green Touchable Nanorobotic Sensor Networks. , 2016, 54, 136-142.		24

#	Article	IF	Citations
37	Packet Fragmentation and Reassembly in Molecular Communication. IEEE Transactions on Nanobioscience, 2016, 15, 284-288.	2.2	19
38	Inbody mobile bionanosensor networks through non-diffusion-based molecular communication. , 2015, , .		12
39	Cooperative Target Tracking by a Mobile Bionanosensor Network. IEEE Transactions on Nanobioscience, 2014, 13, 267-277.	2.2	56
40	TCP-Like Molecular Communications. IEEE Journal on Selected Areas in Communications, 2014, 32, 2354-2367.	9.7	90
41	Externally Controllable Molecular Communication. IEEE Journal on Selected Areas in Communications, 2014, 32, 2417-2431.	9.7	59
42	Autonomous mobile bionanosensor networks for target tracking: A two-dimensional model. Nano Communication Networks, 2014, 5, 63-71.	1.6	15
43	Molecular Communication Among Biological Nanomachines: A Layered Architecture and Research Issues. IEEE Transactions on Nanobioscience, 2014, 13, 169-197.	2.2	202
44	Oscillation and Synchronization of Molecular Machines by the Diffusion of Inhibitory Molecules. IEEE Nanotechnology Magazine, 2013, 12, 601-608.	1.1	72
45	Resource pricing games on graphs: existence of Nash equilibria. Optimization Letters, 2013, 7, 231-240.	0.9	2
46	Transmission Rate Control for Molecular Communication among Biological Nanomachines. IEEE Journal on Selected Areas in Communications, 2013, 31, 835-846.	9.7	86
47	Cooperative drug delivery through molecular communication among biological nanomachines. , 2013,		15
48	Nanomachine placement strategies for detecting Brownian molecules in nanonetworks. , 2012, , .		10
49	Comparing transmission, propagation, and receiving options for nanomachines to measure distance by molecular communication., 2012,,.		10
50	Multiplexing over molecular communication channels from nanomachines to a micro-scale sensor device. , $2012, \ldots$		7
51	Channel Model and Capacity Analysis of Molecular Communication with Brownian Motion. IEEE Communications Letters, 2012, 16, 797-800.	2.5	158
52	Molecular Communication and Networking: Opportunities and Challenges. IEEE Transactions on Nanobioscience, 2012, 11, 135-148.	2.2	497
53	Throughput and efficiency of molecular communication between nanomachines., 2012,,.		12
54	Stochastic cargo transport by molecular motors in molecular communication. , 2012, , .		7

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55	Principles and Methods for Nanomechatronics: Signaling, Structure, and Functions Toward Nanorobots. IEEE Transactions on Systems, Man and Cybernetics, Part C: Applications and Reviews, 2012, 42, 357-366.	3.3	7
56	Measuring Distance From Single Spike Feedback Signals in Molecular Communication. IEEE Transactions on Signal Processing, 2012, 60, 3576-3587.	3.2	139
57	Addressing by beacon coordinates using molecular communication., 2011,,.		10
58	Repeater design and modeling for molecular communication networks. , 2011, , .		43
59	Addressing by beacon distances using molecular communication. Nano Communication Networks, 2011, 2, 161-173.	1.6	140
60	Biologically Inspired Network Systems: A Review and Future Prospects. IEEE Transactions on Systems, Man and Cybernetics, Part C: Applications and Reviews, 2011, 41, 630-643.	3.3	54
61	Non-cooperative optimization games in market-oriented overlay networks: an integrated model of resource pricing and network formation. Frontiers of Computer Science, 2011, 5, 496-505.	0.6	0
62	In-sequence molecule delivery over an aqueous medium. Nano Communication Networks, 2010, 1 , $181\text{-}188$.	1.6	76
63	Design and Analysis of Molecular Relay Channels: An Information Theoretic Approach. IEEE Transactions on Nanobioscience, 2010, 9, 213-221.	2.2	97
64	Price Stability in Peer-to-Peer Resource Markets., 2010,,.		4
65	Cooperative Resource Pricing in Service Overlay Networks for Mobile Agents. IEICE Transactions on Communications, 2010, E93-B, 1927-1930.	0.4	8
66	Adaptive Dynamic Routing Supporting Service Management for Future Internet., 2009, , .		11
67	A locallyâ€induced increase in intracellular Ca ²⁺ propagates cellâ€toâ€cell in the presence of plasma membrane Ca ²⁺ ATPase inhibitors in nonâ€excitable cells. FEBS Letters, 2009, 583, 3593-3599.	1.3	17
68	A web page transmission mechanism with transmission order control of inline objects. Systems and Computers in Japan, 2002, 33, 14-24.	0.2	0
69	Guest Editorial: Alâ€enabled intelligent network for 5G and beyond. IET Communications, 0, , .	1.5	0