

# A Comprehensive Survey of Recent Advancements in M

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Citation Report

#	ARTICLE	IF	CITATIONS
1	Stable Distributions as Noise Models for Molecular Communication. , 2014, , .		10
2	Active versus Passive: Receiver Model Transforms for Diffusive Molecular Communication. , 2016, , .		34
3	Communication over Diffusion-Based Molecular Timing Channels. , 2016, , .		25
4	On the Impact of Time-Synchronization in Molecular Timing Channels. , 2016, , .		7
5	Distributed Cooperative Detection for Multi-Receiver Molecular Communication. , 2016, , .		13
6	Energy model for vesicle-based active transport molecular communication. , 2016, , .		15
7	On the capacity of amplitude modulation based molecular communication channels. , 2016, , .		1
8	Information theory of molecular communication: directions and challenges. IEEE Transactions on Molecular, Biological, and Multi-Scale Communications, 2016, 2, 120-142.	1.4	86
9	Inscribed Matter Communication: Part I. IEEE Transactions on Molecular, Biological, and Multi-Scale Communications, 2016, 2, 209-227.	1.4	32
10	On the capacity of diffusion-based molecular timing channels. , 2016, , .		24
11	Reference broadcast synchronization scheme for nanomachines. , 2016, , .		2
12	Modeling and Simulation of Molecular Communication Systems with a Reversible Adsorption Receiver. IEEE Transactions on Molecular, Biological, and Multi-Scale Communications, 2016, , 1-1.	1.4	61
13	Ion pump based bio-synthetic modulator model for diffusive molecular communications. , 2016, , .		5
14	Channel Estimation for Diffusive Molecular Communications. IEEE Transactions on Communications, 2016, , 1-1.	4.9	78
15	A molecular communication system using acids, bases and hydrogen ions. , 2016, , .		33
16	Mobile molecular communications: Positional-distance codes. , 2016, , .		9
17	Capacity and Delay Spread in Multilayer Diffusion-Based Molecular Communication (DBMC) Channel. IEEE Transactions on Nanobioscience, 2016, 15, 599-612.	2.2	15
18	Parameter estimation of inverse Gaussian channel for diffusion-based molecular communication. , 2016, , .		8

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20	Eavesdropper Localization in Random Walk Channels. IEEE Communications Letters, 2016, 20, 1776-1779.	2.5	26
21	On Time-Slotted Communication over Molecular Timing Channels. , 2016, , .		3
22	On the capacity of diffusion-based molecular timing channels with diversity. , 2016, , .		2
23	Interference reduction via enzyme deployment for molecular communication. Electronics Letters, 2016, 52, 1094-1096.	0.5	13
24	Physical layer network coding in molecular two-way relay networks. , 2016, , .		5
25	Molecular MIMO: From Theory to Prototype. IEEE Journal on Selected Areas in Communications, 2016, 34, 600-614.	9.7	155
26	Theoretical Analysis of Magneto-Inductive THz Wireless Communications and Power Transfer With Multi-Layer Graphene Nano-Coils. IEEE Transactions on Molecular, Biological, and Multi-Scale Communications, 2017, 3, 60-70.	1.4	19
27	Event Detection in Molecular Communication Networks With Anomalous Diffusion. IEEE Communications Letters, 2017, 21, 1249-1252.	2.5	26
28	Chemical Propagation Pattern for Molecular Communications. IEEE Wireless Communications Letters, 2017, 6, 226-229.	3.2	26
29	Reed Solomon Codes for Molecular Communication With a Full Absorption Receiver. IEEE Communications Letters, 2017, 21, 1245-1248.	2.5	25
30	Time-slotted transmission over molecular timing channels. Nano Communication Networks, 2017, 12, 12-24.	1.6	18
31	Connectivity Properties of Free Diffusion-Based Molecular Nanoscale Communication Networks. IEEE Transactions on Communications, 2017, 65, 1686-1695.	4.9	13
32	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
33	Molecular Communication and Nanonetwork for Targeted Drug Delivery: A Survey. IEEE Communications Surveys and Tutorials, 2017, 19, 3046-3096.	24.8	127
34	On the Design of Matched Filters for Molecule Counting Receivers. IEEE Communications Letters, 2017, 21, 1711-1714.	2.5	46
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36	Towards Concurrent Data Transmission: Exploiting Plasmid Diversity by Bacterial Conjugation. IEEE Transactions on Nanobioscience, 2017, 16, 287-298.	2.2	17

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41	Adaptive Control of Angular Sensitivity for VHF-Band Nano-Antenna Using CNT Mechanical Resonator. IEEE Transactions on Molecular, Biological, and Multi-Scale Communications, 2017, 3, 24-32.	1.4	10
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43	Error Performance Optimization Using Logarithmic Barrier Function in Molecular Nanonetworks. IEEE Communications Letters, 2017, 21, 2408-2411.	2.5	4
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49	Performance analysis of Decode and Forward Relay network in Diffusion based Molecular Communication. , 2017, , .		14
50	Channel estimation for diffusive MIMO molecular communications. , 2017, , .		14
51	Fluorescent Quantum Dots Make Feasible Long-Range Transmission of Molecular Bits. Journal of Physical Chemistry Letters, 2017, 8, 3861-3866.	2.1	24
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53	A biological circuit design for modulated parity-check encoding in molecular communication. , 2017, , .		5
54	Optimal Positioning of Relay Node in Cooperative Molecular Communication Networks. IEEE Transactions on Communications, 2017, 65, 5293-5304.	4.9	26

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56	Bit alignment scheme for mobile receiver in molecular communication. , 2017, , .		8
57	Molecular Communication: A 10 Year Retrospective. IEEE Transactions on Molecular, Biological, and Multi-Scale Communications, 2017, 3, 71-78.	1.4	56
58	Improving the Capacity of Molecular Communication Using Enzymatic Reaction Cycles. IEEE Transactions on Nanobioscience, 2017, 16, 744-754.	2.2	25
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71	Convex Optimization of Distributed Cooperative Detection in Multi-Receiver Molecular Communication. IEEE Transactions on Molecular, Biological, and Multi-Scale Communications, 2017, 3, 166-182.	1.4	28
72	Achievable rate for a mobile molecular communication system. , 2017, , .		2

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74	Optimization of the detection process timing in molecular communication systems with flow. , 2017, , .		3
75	Zero-Error Capacity of $P$ -ary Shift Channels and FIFO Queues. IEEE Transactions on Information Theory, 2017, 63, 7698-7707.	1.5	7
76	A Microfluidic Feed Forward Loop Pulse Generator for Molecular Communication. , 2017, , .		10
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103	Optimal Detection for One-Shot Transmission Over Diffusion-Based Molecular Timing Channels. IEEE Transactions on Molecular, Biological, and Multi-Scale Communications, 2018, 4, 43-60.	1.4	10
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110	An increment detection algorithm to mitigate ISI for molecular communication based on drift diffusion. , 2018, , .		2
111	Epidemic Information Dissemination in Mobile Molecular Communication Systems. , 2018, , .		6
112	Adaptive Batch Training Rule-Based Detection Scheme for On-OFF-Keying Diffusion-Based Molecular Communications. , 2018, , .		3
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147	Enhancing the Reliability of Large-Scale Multiuser Molecular Communication Systems. , 2018, , .		1
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164	Modeling of Ligand-Receptor Protein Interaction in Biodegradable Spherical Bounded Biological Micro-Environments. IEEE Access, 2018, 6, 25007-25018.	2.6	27
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