

# Mauro Femminella

## List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

90  
papers

890  
citations

13  
h-index

26  
g-index

112  
ext. papers

1,185  
ext. citations

3.6  
avg, IF

4.56  
L-index

#	Paper	IF	Citations
90	Applications of molecular communications to medicine: A survey. <i>Nano Communication Networks</i> , <b>2016</b> , 7, 27-45	2.9	93
89	TCP-Like Molecular Communications. <i>IEEE Journal on Selected Areas in Communications</i> , <b>2014</b> , 32, 2354-2367	3.67	75
88	Simulation of molecular signaling in blood vessels: Software design and application to atherogenesis. <i>Nano Communication Networks</i> , <b>2013</b> , 4, 98-119	2.9	71
87	A simulation tool for nanoscale biological networks. <i>Nano Communication Networks</i> , <b>2012</b> , 3, 2-18	2.9	70
86	A Molecular Communications Model for Drug Delivery. <i>IEEE Transactions on Nanobioscience</i> , <b>2015</b> , 14, 935-45	3.4	62
85	Simulating an in vitro experiment on nanoscale communications by using BiNS2. <i>Nano Communication Networks</i> , <b>2013</b> , 4, 172-180	2.9	51
84	Modeling CD40-based molecular communications in blood vessels. <i>IEEE Transactions on Nanobioscience</i> , <b>2014</b> , 13, 230-43	3.4	40
83	DIRECT: A model for molecular communication nanonetworks based on discrete entities. <i>Nano Communication Networks</i> , <b>2013</b> , 4, 181-188	2.9	40
82	Establishing digital molecular communications in blood vessels <b>2013</b> ,		19
81	. <i>IEEE Network</i> , <b>2011</b> , 25, 24-32	11.4	18
80	Congestion Control in Molecular Cyber-Physical Systems. <i>IEEE Access</i> , <b>2017</b> , 5, 10000-10011	3.5	17
79	Protection Ratio and Antenna Separation for DVB-T/LTE Coexistence Issues. <i>IEEE Communications Letters</i> , <b>2013</b> , 17, 1588-1591	3.8	16
78	Comparison of MongoDB and Cassandra Databases for Spectrum Monitoring As-a-Service. <i>IEEE Transactions on Network and Service Management</i> , <b>2020</b> , 17, 346-360	4.8	15
77	Autonomic control and personalization of a wireless access network. <i>Computer Networks</i> , <b>2007</b> , 51, 2645-2676	5.4	13
76	Performance Evaluation of Edge Cloud Computing System for Big Data Applications <b>2016</b> ,		13
75	A Zero-Configuration Tracking System for First Responders Networks. <i>IEEE Systems Journal</i> , <b>2017</b> , 11, 2917-2928	4.3	12
74	Per-flow QoS support over a stateless Differentiated Services IP domain. <i>Computer Networks</i> , <b>2002</b> , 40, 73-87	5.4	12

73	Extending the NetServ autonomic management capabilities using OpenFlow <b>2012</b> ,		10
72	A Molecular Communication System in Blood Vessels for Tumor Detection <b>2007</b> ,		10
71	Directional Receivers for Diffusion-Based Molecular Communications. <i>IEEE Access</i> , <b>2019</b> , 7, 5769-5783	3.5	9
70	A Molecular Communications System for Live Detection of Hyperviscosity Syndrome. <i>IEEE Transactions on Nanobioscience</i> , <b>2020</b> , 19, 410-421	3.4	9
69	Gossip-based signaling dissemination extension for next steps in signaling <b>2012</b> ,		8
68	Network service provisioning in UWB open mobile access networks. <i>IEEE Journal on Selected Areas in Communications</i> , <b>2002</b> , 20, 1745-1753	14.2	8
67	Performance evaluation of a measurement-based algorithm for distributed admission control in a DiffServ framework		8
66	Smart antennas for diffusion-based molecular communications <b>2015</b> ,		7
65	Workflow Engine Integration in JSLEE AS. <i>IEEE Communications Letters</i> , <b>2011</b> , 15, 1405-1407	3.8	7
64	Experimental Analysis of the Application of Serverless Computing to IoT Platforms. <i>Sensors</i> , <b>2021</b> , 21,	3.8	7
63	The RAMON Module: Architecture Framework and Performance Results. <i>Lecture Notes in Computer Science</i> , <b>2003</b> , 471-484	0.9	7
62	A Layer 3 Movement Detection Algorithm Driving Handovers in Mobile IP. <i>Wireless Networks</i> , <b>2005</b> , 11, 223-233	2.5	6
61	A Big Data architecture for spectrum monitoring in cognitive radio applications. <i>Annales Des Telecommunications/Annals of Telecommunications</i> , <b>2018</b> , 73, 451-461	2	6
60	Simplification of the design, deployment, and testing of 5G vertical services <b>2020</b> ,		5
59	A Signaling Protocol for Service Function Localization. <i>IEEE Communications Letters</i> , <b>2016</b> , 1-1	3.8	5
58	SigMA: Signaling Framework for Decentralized Network Management Applications. <i>IEEE Transactions on Network and Service Management</i> , <b>2017</b> , 14, 616-630	4.8	5
57	Performance management of Java-based SIP application servers <b>2011</b> ,		5
56	Joint support of QoS and mobility in a stateless IP environment		5

55	Skin Cancer Classification Using Inception Network and Transfer Learning. <i>Lecture Notes in Computer Science</i> , <b>2020</b> , 536-545	0.9	5
54	Automatic deployment, execution and analysis of 5G experiments using the 5G EVE platform <b>2020</b> ,		5
53	Extensible signaling framework for decentralized network management applications <b>2016</b> ,		5
52	The Molecular Communications Markup Language (MolComML). <i>Nano Communication Networks</i> , <b>2018</b> , 16, 12-25	2.9	4
51	The ARES Project: Network Architecture for Delivering and Processing Genomics Data <b>2014</b> ,		4
50	An Experimental System for Continuous Users Tracking in Emergency Scenarios <b>2011</b> ,		4
49	Toward an autonomic control of wireless access networks <b>2005</b> ,		4
48	Performance evaluation of the push-mode-multicast based candidate access router discovery (PMM CARD). <i>Computer Networks</i> , <b>2006</b> , 50, 367-397	5.4	4
47	A Comparison of the Utilization Efficiency between a Stateful and a Stateless Admission Control in IP Networks in a Heterogeneous Traffic Case. <i>Telecommunication Systems</i> , <b>2004</b> , 25, 231-258	2.3	4
46	A QoS index for IP services to effectively support usage-based charging. <i>IEEE Communications Letters</i> , <b>2004</b> , 8, 686-688	3.8	4
45	IoT, cloud services, and big data: A comprehensive pricing solution <b>2016</b> ,		4
44	Genomics as a service: A joint computing and networking perspective. <i>Computer Networks</i> , <b>2018</b> , 145, 27-51	5.4	4
43	IoT, big data, and cloud computing value chain: pricing issues and solutions. <i>Annales Des Telecommunications/Annals of Telecommunications</i> , <b>2018</b> , 73, 511-520	2	4
42	Gossip-based monitoring of virtualized resources in 5G networks <b>2019</b> ,		3
41	Parallel algorithms for simulating interacting carriers in nanocommunication. <i>Nano Communication Networks</i> , <b>2019</b> , 20, 20-30	2.9	3
40	A simple and scalable receiver model in molecular communication systems <b>2016</b> ,		3
39	MolComML <b>2016</b> ,		3
38	Advanced caching for distributing sensor data through programmable nodes <b>2013</b> ,		3

37	Teaching Domain-Driven Data Science: Public-Private Co-creation of Market-Driven Certificate <b>2015</b> ,		3
36	Optimal deployment of open source application servers providing multimedia services. <i>IEEE Network</i> , <b>2014</b> , 28, 54-63	11.4	3
35	Low Satellite Visibility Areas: Extension of the GPS Capabilities to Deploy Location-Based Services. <i>IEEE Vehicular Technology Magazine</i> , <b>2012</b> , 7, 55-65	9.9	3
34	QoS-enabled multicast for delivering live events in a Digital Cinema scenario. <i>Journal of Network and Computer Applications</i> , <b>2009</b> , 32, 314-344	7.9	3
33			3
32	A cloud computing architecture for spectrum sensing as a service <b>2016</b> ,		3
31	Networking issues related to delivering and processing genomic big data. <i>International Journal of Parallel, Emergent and Distributed Systems</i> , <b>2015</b> , 30, 46-64	1	2
30	The ARES Project: Cloud Services for Medical Genomics <b>2014</b> ,		2
29	Genome centric networking: A network function virtualization solution for genomic applications <b>2017</b> ,		2
28	Enhancing java call control with media server control functions <b>2013</b> , 51, 132-142		2
27	Design, Implementation, and Performance Evaluation of an Advanced SIP-Based Call Control for VoIP Services <b>2009</b> ,		2
26	Target access router selection in advanced mobility scenarios. <i>Computer Communications</i> , <b>2006</b> , 29, 337-357		2
25	Beacon-Based Service Publishing Framework in Multiservice Wi-Fi Hotspots. <i>Eurasip Journal on Wireless Communications and Networking</i> , <b>2007</b> , 2007, 1	3.2	2
24	Stateless admission control for QoS provisioning for VoIP in a diffServ domain. <i>Teletraffic Science and Engineering</i> , <b>2003</b> , 1321-1330		2
23	On the modeling of voice sources regulated by dual leaky buckets		2
22	5G experiment design through Blueprint. <i>Computer Networks</i> , <b>2021</b> , 190, 107948	5.4	2
21	Orchestration of Cloud Genomic Services <b>2019</b> ,		2
20	A big-data layered architecture for analyzing molecular communications systems in blood vessels <b>2017</b> ,		1

19	Probabilistic Codebook-Based Fault Localization in Data Networks. <i>IEEE Transactions on Network and Service Management</i> , <b>2018</b> , 15, 567-581	4.8	1
18	A signaling architecture for multimedia MBS over WiMAX. <i>Eurasip Journal on Wireless Communications and Networking</i> , <b>2012</b> , 2012,	3.2	1
17	Efficient and stateless deployment of VoIP services. <i>Computer Networks</i> , <b>2009</b> , 53, 706-726	5.4	1
16	An Extended Java Call Control for the Session Initiation Protocol. <i>IEEE MultiMedia</i> , <b>2012</b> , 19, 60-71	2.1	1
15	Measuring the edge-to-edge available bandwidth in a DiffServ domain. <i>International Journal of Network Management</i> , <b>2008</b> , 18, 409-426	1.8	1
14	On the Performance of Service Publishing in IEEE 802.11 Multi-Access Environment. <i>IEEE Communications Letters</i> , <b>2007</b> , 11, 322-324	3.8	1
13	Fast simulation of interacting carriers in nanosimulators <b>2018</b> ,		1
12	Effect of Aging, Disease Versus Health Conditions in the Design of Nano-communications in Blood Vessels. <i>Modeling and Optimization in Science and Technologies</i> , <b>2017</b> , 447-471	0.6	1
11	WiFi Assisted GPS for Extended Location Services. <i>Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering</i> , <b>2010</b> , 191-202	0.2	1
10	Modeling the Spontaneous Reaction of Mammalian Cells to External Stimuli. <i>Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering</i> , <b>2013</b> , 226-241	0.2	1
9	Two-Layer Network Caching for Different Service Requirements. <i>Future Internet</i> , <b>2021</b> , 13, 85	3.3	1
8	A Molecular Communications System for the Detection of Inflammatory Levels Related to COVID-19 Disease. <i>IEEE Transactions on Molecular, Biological, and Multi-Scale Communications</i> , <b>2021</b> , 7, 165-174	2.3	1
7	Mobility Management in a Reconfigurable Environment: The RAMON Approach. <i>Lecture Notes in Computer Science</i> , <b>2003</b> , 499-512	0.9	1
6	Implementation issues of diffusion-based molecular communications receivers based on transcriptional elements <b>2021</b> , 103160		0
5	Dimensioning of dual leaky bucket parameters for regulating voice sources. <i>Electronics Letters</i> , <b>2013</b> , 49, 756-758	1.1	
4	A Novel Approach to Charge for IP Services with QoS Support. <i>Journal of Network and Systems Management</i> , <b>2006</b> , 14, 279-312	2.1	
3	Monitoring Platform Evolution towards Serverless Computing for 5G and Beyond Systems. <i>IEEE Transactions on Network and Service Management</i> , <b>2022</b> , 1-1	4.8	
2	Access Router Discovery and Selection in Advanced Wireless Networks. <i>Lecture Notes in Computer Science</i> , <b>2004</b> , 383-388	0.9	

- 1 A Nano Communication System for CTC Detection in Blood Vessels. *Lecture Notes in Computer Science*, **2019**, 159-170 0.9