

# Maziar Nekovee

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/1807131/publications.pdf>

Version: 2024-02-01

110  
papers

3,644  
citations

257450

24  
h-index

161849

54  
g-index

113  
all docs

113  
docs citations

113  
times ranked

3046  
citing authors

#	ARTICLE	IF	CITATIONS
1	Dynamics of rumor spreading in complex networks. <i>Physical Review E</i> , 2004, 69, 066130.	2.1	682
2	Theory of rumour spreading in complex social networks. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2007, 374, 457-470.	2.6	591
3	Cognitive machine-to-machine communications: visions and potentials for the smart grid. <i>IEEE Network</i> , 2012, 26, 6-13.	6.9	346
4	Wireless service provision in TV white space with cognitive radio technology: A telecom operator's perspective and experience. , 2011, 49, 64-73.		123
5	Stochastic epidemics and rumours on finite random networks. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2010, 389, 561-576.	2.6	86
6	Millimeter-Wave Propagation: Characterization and modeling toward fifth-generation systems. [Wireless Corner]. <i>IEEE Antennas and Propagation Magazine</i> , 2016, 58, 115-127.	1.4	86
7	A Survey of Cognitive Radio Access to TV White Spaces. <i>International Journal of Digital Multimedia Broadcasting</i> , 2010, 2010, 1-11.	0.6	83
8	Worm epidemics in wireless ad hoc networks. <i>New Journal of Physics</i> , 2007, 9, 189-189.	2.9	79
9	Cognitive Radio Access to TV White Spaces: Spectrum Opportunities, Commercial Applications and Remaining Technology Challenges. , 2010, , .		79
10	A ternary lattice Boltzmann model for amphiphilic fluids. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2000, 456, 2043-2057.	2.1	78
11	Lattice-Boltzmann model for interacting amphiphilic fluids. <i>Physical Review E</i> , 2000, 62, 8282-8294.	2.1	71
12	Failure of extended-moment-equation approaches to describe ballistic transport in submicrometer structures. <i>Physical Review B</i> , 1992, 45, 6643-6651.	3.2	52
13	Worldwide trends in regulation of secondary access to white spaces using cognitive radio. <i>IEEE Wireless Communications</i> , 2012, 19, 32-40.	9.0	51
14	A study on the coexistence of fixed satellite service and cellular networks in a mmWave scenario. , 2015, , .		49
15	Magnetic splitting of image states at Fe(110). <i>Physical Review Letters</i> , 1993, 70, 3099-3102.	7.8	46
16	Reliable and Efficient Information Dissemination in Intermittently Connected Vehicular Adhoc Networks. <i>IEEE Vehicular Technology Conference</i> , 2007, , .	0.4	46
17	Challenges and Opportunities of mm-Wave Communication in 5G Networks. , 2014, , .		45
18	Three-dimensional lattice-Boltzmann simulations of critical spinodal decomposition in binary immiscible fluids. <i>Physical Review E</i> , 2003, 67, 046304.	2.1	41

#	ARTICLE	IF	CITATIONS
19	Quantum Monte Carlo Analysis of Exchange and Correlation in the Strongly Inhomogeneous Electron Gas. <i>Physical Review Letters</i> , 2001, 87, 036401.	7.8	38
20	Dynamic spectrum access "concepts and future architectures. <i>BT Technology Journal</i> , 2006, 24, 111-116.	0.5	38
21	Investigating Spectrum Sharing between 5G Millimeter Wave Networks and Fixed Satellite Systems. , 2015, , .		37
22	Simulations of amphiphilic fluids using mesoscale lattice-Boltzmann and lattice-gas methods. <i>Computer Physics Communications</i> , 2003, 153, 340-358.	7.5	36
23	Epidemic algorithms for reliable and efficient information dissemination in vehicular ad hoc networks. <i>IET Intelligent Transport Systems</i> , 2009, 3, 104.	3.0	34
24	A survey of cognitive radio access to TV White Spaces. , 2009, , .		34
25	The opportunistic transmission of wireless worms between mobile devices. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2008, 387, 6837-6844.	2.6	33
26	Full-potential embedding for surfaces and interfaces. <i>Journal of Physics Condensed Matter</i> , 1992, 4, 1475-1488.	1.8	32
27	Quantifying Performance Requirements of Vehicle-to-Vehicle Communication Protocols for Rear-End Collision Avoidance. , 2009, , .		31
28	A cooperative scheduling algorithm for the coexistence of fixed satellite services and 5G cellular network. , 2015, , .		30
29	Recent progress in the computational many-body theory of metal surfaces. <i>Computer Physics Communications</i> , 2001, 137, 123-142.	7.5	29
30	Threshold Behaviour of Surface Density of States at the Vacuum Level. <i>Europhysics Letters</i> , 1992, 19, 535-540.	2.0	28
31	Spread of information and infection on finite random networks. <i>Physical Review E</i> , 2011, 83, 046128.	2.1	28
32	SYNCHRONIZATION IN RANDOM GEOMETRIC GRAPHS. <i>International Journal of Bifurcation and Chaos in Applied Sciences and Engineering</i> , 2009, 19, 687-693.	1.7	25
33	Deep Learning-Based Autoencoder for m-User Wireless Interference Channel Physical Layer Design. <i>IEEE Access</i> , 2020, 8, 174679-174691.	4.2	25
34	Lattice-Boltzmann Simulations of Self-Assembly of a Binary Water-Surfactant System into Ordered Bicontinuous Cubic and Lamellar Phases. <i>Journal of the American Chemical Society</i> , 2001, 123, 12380-12382.	18.7	23
35	Future management of spectrum. <i>BT Technology Journal</i> , 2007, 25, 52-63.	0.5	22
36	Contention-based learning MAC protocol for broadcast vehicle-to-vehicle communication. , 2017, , .		22

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37	Coexistence of 5G With Satellite Services in the Millimeter-Wave Band. IEEE Access, 2020, 8, 163618-163636.	4.2	22
38	The Design and Analysis of Electronically Reconfigurable Liquid Crystal-Based Reflectarray Metasurface for 6G Beamforming, Beamsteering, and Beamsplitting. IEEE Access, 2021, 9, 155564-155575.	4.2	22
39	Intelligent 5G Vehicular Networks: An Integration of DSRC and mmWave Communications. , 2018, , .		21
40	Quantum Monte Carlo investigations of density functional theory of the strongly inhomogeneous electron gas. Physical Review B, 2003, 68, .	3.2	20
41	Impact of Cognitive Radio on Future Management of Spectrum. , 2008, , .		19
42	Wi-Fi based broadband wireless access for users on the road. BT Technology Journal, 2006, 24, 123-129.	0.5	18
43	Spectrum-Sharing Method for Co-Existence Between 5G OFDM-Based System and Fixed Service. IEEE Access, 2019, 7, 77460-77475.	4.2	18
44	Simulations of large-scale WiFi-based wireless networks: Interdisciplinary challenges and applications. Future Generation Computer Systems, 2010, 26, 514-520.	7.5	16
45	Theory of image states at magnetic surfaces. Progress in Surface Science, 1995, 50, 149-158.	8.3	15
46	An accelerated Metropolis method. Journal of Chemical Physics, 1998, 109, 2630-2634.	3.0	15
47	Dynamic Spectrum Access with Cognitive Radios: Future Architectures and Research Challenges. , 2006, , .		13
48	Edge on Wheels With OMNIBUS Networking for 6G Technology. IEEE Access, 2020, 8, 215928-215942.	4.2	13
49	Intra-Cluster Characteristics of 28 GHz Wireless Channel in Urban Micro Street Canyon. , 2016, , .		12
50	Distributed beam scheduling for multi-RAT coexistence in mm-wave 5G networks. , 2016, , .		11
51	Self-Organized Beam Scheduling as an Enabler for Coexistence in 5G Unlicensed Bands. IEICE Transactions on Communications, 2017, E100.B, 1181-1189.	0.7	11
52	The effect of electric fields on Ag(001). Journal of Physics Condensed Matter, 1998, 10, 7777-7792.	1.8	10
53	A Quantum Monte Carlo Approach to the Adiabatic Connection Method. Advances in Quantum Chemistry, 1998, 33, 189-207.	0.8	10
54	Quantifying data rate and bandwidth requirements for immersive 5G experience. , 2016, , .		10

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55	Exact and moment equation modeling of electron transport in submicron structures. Applied Physics Letters, 1991, 59, 1743-1745.	3.3	9
56	Current Trends in Regulation of Secondary Access to TV White Spaces Using Cognitive Radio. , 2011, , .		9
57	Rear-End Collision: Causes and Avoidance Techniques. , 2013, , 99-119.		9
58	Towards AI-enabled Microservice Architecture for Network Function Virtualization. , 2020, , .		9
59	TV White Space Channel Allocation with Simulated Annealing as Meta Algorithm. , 2012, , .		9
60	Transformation from 5G for Verticals Towards a 6G-enabled Internet of Verticals. , 2022, , .		9
61	Surface Screening Charge and Effective Charge. Physical Review Letters, 1998, 80, 3571-3574.	7.8	8
62	Towards explainable artificial intelligence for network function virtualization. , 2020, , .		8
63	Towards 6G: Spectrally efficient joint radar and communication with radio frequency selection, interference and hardware impairments (invited paper). IET Signal Processing, 2022, 16, 851-863.	1.5	8
64	Congestion Reduction Using Ad-Hoc Message Dissemination in Vehicular Networks. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2009, , 128-139.	0.3	7
65	Is wireless broadband provision to rural communities in TV whitespaces viable? A UK case study and analysis. , 2012, , .		7
66	Guest Editorial: Smart Grid Communications Systems. IEEE Systems Journal, 2014, 8, 417-421.	4.6	6
67	An Iterative and Truthful MultiUnit Auction Scheme for Coordinated Sharing of Spectrum White Spaces. Performance Evaluation Review, 2014, 42, 8-11.	0.6	6
68	Dynamic Spectrum: Going Full Circle. , 2007, , .		5
69	Frequency and quadrature amplitude modulation for 5G networks. , 2016, , .		5
70	Independent and joint statistics of clutter loss and building entry loss " initial measurements. , 2018, , .		5
71	Modeling the impact of organization structure and whistle-blowers on intra-organizational corruption contagion. Physica A: Statistical Mechanics and Its Applications, 2019, 522, 339-349.	2.6	5
72	Automatic Configuration of OpenFlow in Wireless Mobile Ad hoc Networks. , 2019, , .		5

#	ARTICLE	IF	CITATIONS
73	Quantifying the TV White Spaces Spectrum Opportunity for Cognitive Radio Access. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2009, , 46-57.	0.3	4
74	Secure Non-Public Health Enterprise Networks. , 2020, , .		4
75	Guest Editorial: Special Issue on Cognitive Radio Oriented Wireless Networks and Communications. Mobile Networks and Applications, 2008, 13, 411-415.	3.3	3
76	Dynamics of gossip-like information dissemination in complex computer networks. International Journal of Computer Mathematics, 2008, 85, 1165-1173.	1.8	3
77	Reducing Congestion in Obstructed Highways with Traffic Data Dissemination Using Ad hoc Vehicular Networks. Eurasip Journal on Advances in Signal Processing, 2010, 2010, .	1.7	3
78	Universality of Performance Parameters in Vehicular ad hoc Networks. IEEE Communications Letters, 2011, 15, 947-949.	4.1	3
79	Non-orthogonal FQAM for multiple access in the uplink of 5G wireless networks. , 2016, , .		3
80	Demo Abstract: A demonstration of automatic configuration of OpenFlow in wireless ad hoc networks. , 2019, , .		3
81	An Adaptive Method for Dynamic Audience Size Estimation in Multicast. Lecture Notes in Computer Science, 2003, , 23-33.	1.3	3
82	Joint statistics of urban clutter loss and building entry loss at 3.5 GHz and 27 GHz - from measurement to modelling. , 2020, , .		3
83	Quantum Monte Carlo studies of density functional theory. Mathematics and Computers in Simulation, 2003, 62, 463-470.	4.4	2
84	Parameter exploration in parallel for dynamic vehicular network efficiency. , 2009, , .		2
85	Rule-based dynamic TV white space spectrum sharing services composition framework. Physical Communication, 2013, 9, 231-242.	2.1	2
86	Effective decentralised segmentation-based scheme for broadcast in large-scale dense VANETs. , 2016, , .		2
87	Transport protocols behaviour study in evolving mobile networks. , 2016, , .		2
88	Electronically Reconfigurable Binary Phase Liquid Crystal Reflectarray Metasurface at 108 GHz. , 2019, , .		2
89	Epidemic Spreading of Computer Worms in Fixed Wireless Networks. Lecture Notes in Computer Science, 2008, , 105-115.	1.3	2
90	An Adaptive Deep Learning Algorithm Based Autoencoder for Interference Channels. Lecture Notes in Computer Science, 2020, , 342-354.	1.3	2

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91	An inhomogeneous and anisotropic Jastrow function for non-uniform many-electron systems. Computational Materials Science, 2001, 22, 129-136.	3.0	1
92	Mechanism Design for Cognitive Radio Networks. , 2010, , .		1
93	Cognitive radio-based urban wireless broadband in unused TV bands. , 2010, , .		1
94	Autonomous spectrum sharing in heterogeneous White Space networks. , 2012, , .		1
95	Autonomous spectrum sharing in heterogeneous White Space networks. , 2013, , .		1
96	Automatic trust calculation for service-oriented systems. IET Software, 2014, 8, 134-142.	2.1	1
97	Coordinated initial access in millimetre wave standalone networks. , 2016, , .		1
98	Effective Decentralised segmentation-based scheme for broadcast in large-scale dense VANETs. , 2016, , .		1
99	Single-cell and multi-cell performance analysis of OFDM index modulation. IET Communications, 2017, 11, 1021-1027.	2.2	1
100	Interference-aware Power Coordination Game for ISM Bands. , 2014, , .		1
101	Vehicular Ad Hoc Networks. Eurasip Journal on Advances in Signal Processing, 2010, 2010, .	1.7	0
102	When radio meets software. , 2010, , 1-12.		0
103	Special issue on cognitive networking. Journal of Communications and Networks, 2014, 16, 101-109.	2.6	0
104	mmWave-Based Mobile Access for 5G: Key Challenges and Projected Standards and Regulatory Roadmap. , 2014, , .		0
105	Interference management via space and frequency domain resource partitioning. , 2017, , .		0
106	Worst-Case Access Delay of HomePlug Green PHY (HPGP) for Delay-Critical In-Vehicle Applications. , 2017, , .		0
107	Opportunities and Enabling Technologies for 5G and Beyond-5G Spectrum Sharing. , 2019, , 1971-1985.		0
108	A Concurrent Training Method of Deep-Learning Autoencoders in a Multi-user Interference Channel. , 2021, , .		0

#	ARTICLE	IF	CITATIONS
109	A PARALLEL LATTICE-BOLTZMANN METHOD FOR LARGE SCALE SIMULATIONS OF COMPLEX FLUIDS. , 2001, , .		0
110	An Automatic Trust Calculation Based on the Improved Kalman Filter Detection Algorithm. IFIP Advances in Information and Communication Technology, 2013, , 208-222.	0.7	0