

Ian F Akyildiz

List of Publications by Year in descending order

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395
papers

54,945
citations

2963

93
h-index

1589

216
g-index

429
all docs

429
docs citations

429
times ranked

21244
citing authors

#	ARTICLE	IF	CITATIONS
1	NeXt generation/dynamic spectrum access/cognitive radio wireless networks: A survey. Computer Networks, 2006, 50, 2127-2159.	3.2	5,385
2	Wireless mesh networks: a survey. Computer Networks, 2005, 47, 445-487.	3.2	3,218
3	Underwater acoustic sensor networks: research challenges. Ad Hoc Networks, 2005, 3, 257-279.	3.4	2,620
4	A survey on wireless multimedia sensor networks. Computer Networks, 2007, 51, 921-960.	3.2	1,898
5	Cooperative spectrum sensing in cognitive radio networks: A survey. Physical Communication, 2011, 4, 40-62.	1.2	1,722
6	A survey on spectrum management in cognitive radio networks. , 2008, 46, 40-48.		1,320
7	Wireless sensor and actor networks: research challenges. Ad Hoc Networks, 2004, 2, 351-367.	3.4	1,286
8	Nanonetworks: A new communication paradigm. Computer Networks, 2008, 52, 2260-2279.	3.2	1,195
9	CRAHNS: Cognitive radio ad hoc networks. Ad Hoc Networks, 2009, 7, 810-836.	3.4	1,187
10	Terahertz band: Next frontier for wireless communications. Physical Communication, 2014, 12, 16-32.	1.2	1,162
11	A New Wireless Communication Paradigm through Software-Controlled Metasurfaces. IEEE Communications Magazine, 2018, 56, 162-169.	4.9	799
12	Channel Modeling and Capacity Analysis for Electromagnetic Wireless Nanonetworks in the Terahertz Band. IEEE Transactions on Wireless Communications, 2011, 10, 3211-3221.	6.1	785
13	Help from the Sky: Leveraging UAVs for Disaster Management. IEEE Pervasive Computing, 2017, 16, 24-32.	1.1	689
14	Optimal spectrum sensing framework for cognitive radio networks. IEEE Transactions on Wireless Communications, 2008, 7, 3845-3857.	6.1	674
15	6G and Beyond: The Future of Wireless Communications Systems. IEEE Access, 2020, 8, 133995-134030.	2.6	605
16	Electromagnetic wireless nanosensor networks. Nano Communication Networks, 2010, 1, 3-19.	1.6	599
17	Wireless underground sensor networks: Research challenges. Ad Hoc Networks, 2006, 4, 669-686.	3.4	583
18	Spatio-temporal correlation: theory and applications for wireless sensor networks. Computer Networks, 2004, 45, 245-259.	3.2	574

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19	Movement-based location update and selective paging for PCS networks. IEEE/ACM Transactions on Networking, 1996, 4, 629-638.	2.6	532
20	A resource estimation and call admission algorithm for wireless multimedia networks using the shadow cluster concept. IEEE/ACM Transactions on Networking, 1997, 5, 1-12.	2.6	524
21	A survey of mobility management in next-generation all-IP-based wireless systems. IEEE Wireless Communications, 2004, 11, 16-28.	6.6	515
22	ESRT. , 2003, , .		507
23	Wireless multimedia sensor networks: A survey. IEEE Wireless Communications, 2007, 14, 32-39.	6.6	495
24	A roadmap for traffic engineering in SDN-OpenFlow networks. Computer Networks, 2014, 71, 1-30.	3.2	489
25	Capacity of a Diffusion-Based Molecular Communication System With Channel Memory and Molecular Noise. IEEE Transactions on Information Theory, 2013, 59, 942-954.	1.5	484
26	Challenges for efficient communication in underwater acoustic sensor networks. ACM SIGBED Review, 2004, 1, 3-8.	1.8	473
27	The Internet of nano-things. IEEE Wireless Communications, 2010, 17, 58-63.	6.6	460
28	Diffusion-Based Noise Analysis for Molecular Communication in Nanonetworks. IEEE Transactions on Signal Processing, 2011, 59, 2532-2547.	3.2	457
29	A physical end-to-end model for molecular communication in nanonetworks. IEEE Journal on Selected Areas in Communications, 2010, 28, 602-611.	9.7	426
30	Event-to-sink reliable transport in wireless sensor networks. IEEE/ACM Transactions on Networking, 2005, 13, 1003-1016.	2.6	409
31	The evolution to 4G cellular systems: LTE-Advanced. Physical Communication, 2010, 3, 217-244.	1.2	363
32	Magnetic Induction Communications for Wireless Underground Sensor Networks. IEEE Transactions on Antennas and Propagation, 2010, 58, 2426-2435.	3.1	355
33	5G roadmap: 10 key enabling technologies. Computer Networks, 2016, 106, 17-48.	3.2	354
34	Graphene-based Plasmonic Nano-Antenna for Terahertz Band Communication in Nanonetworks. IEEE Journal on Selected Areas in Communications, 2013, 31, 685-694.	9.7	335
35	Overview of networking protocols for underwater wireless communications. , 2009, 47, 97-102.		331
36	Multi-Ray Channel Modeling and Wideband Characterization for Wireless Communications in the Terahertz Band. IEEE Transactions on Wireless Communications, 2015, 14, 2402-2412.	6.1	326

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37	Spatial correlation-based collaborative medium access control in wireless sensor networks. IEEE/ACM Transactions on Networking, 2006, 14, 316-329.	2.6	308
38	A distributed routing algorithm for datagram traffic in LEO satellite networks. IEEE/ACM Transactions on Networking, 2001, 9, 137-147.	2.6	299
39	Combating the Distance Problem in the Millimeter Wave and Terahertz Frequency Bands. , 2018, 56, 102-108.		293
40	Molecular communication options for long range nanonetworks. Computer Networks, 2009, 53, 2753-2766.	3.2	278
41	Signal propagation techniques for wireless underground communication networks. Physical Communication, 2009, 2, 167-183.	1.2	277
42	Femtosecond-Long Pulse-Based Modulation for Terahertz Band Communication in Nanonetworks. IEEE Transactions on Communications, 2014, 62, 1742-1754.	4.9	271
43	Wireless Multimedia Sensor Networks: Applications and Testbeds. Proceedings of the IEEE, 2008, 96, 1588-1605.	16.4	269
44	SoftAir: A software defined networking architecture for 5G wireless systems. Computer Networks, 2015, 85, 1-18.	3.2	264
45	Noise Analysis in Ligand-Binding Reception for Molecular Communication in Nanonetworks. IEEE Transactions on Signal Processing, 2011, 59, 4168-4182.	3.2	261
46	A survey on wireless sensor networks for smart grid. Computer Communications, 2015, 71, 22-33.	3.1	260
47	BorderSense: Border patrol through advanced wireless sensor networks. Ad Hoc Networks, 2011, 9, 468-477.	3.4	258
48	Nanonetworks. Communications of the ACM, 2011, 54, 84-89.	3.3	250
49	Bacteria-based communication in nanonetworks. Nano Communication Networks, 2010, 1, 244-256.	1.6	246
50	Mobile user location update and paging under delay constraints. Wireless Networks, 1995, 1, 413-425.	2.0	241
51	Time-diffusion synchronization protocol for wireless sensor networks. IEEE/ACM Transactions on Networking, 2005, 13, 384-397.	2.6	229
52	TCP-Peach: a new congestion control scheme for satellite IP networks. IEEE/ACM Transactions on Networking, 2001, 9, 307-321.	2.6	228
53	A CDMA-based Medium Access Control for UnderWater Acoustic Sensor Networks. IEEE Transactions on Wireless Communications, 2009, 8, 1899-1909.	6.1	228
54	TeraNets: ultra-broadband communication networks in the terahertz band. IEEE Wireless Communications, 2014, 21, 130-135.	6.6	227

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73	Routing algorithms for delay-insensitive and delay-sensitive applications in underwater sensor networks. , 2006, , .		160
74	System-Theoretic Analysis and Least-Squares Design of Microfluidic Channels for Flow-Induced Molecular Communication. IEEE Transactions on Signal Processing, 2013, 61, 5000-5013.	3.2	159
75	Local anchor scheme for reducing signaling costs in personal communications networks. IEEE/ACM Transactions on Networking, 1996, 4, 709-725.	2.6	158
76	Error Control in Wireless Sensor Networks: A Cross Layer Analysis. IEEE/ACM Transactions on Networking, 2009, 17, 1186-1199.	2.6	158
77	A Real-Time and Reliable Transport (RT) ² Protocol for Wireless Sensor and Actor Networks. IEEE/ACM Transactions on Networking, 2008, 16, 359-370.	2.6	152
78	A Molecular Communication System Model for Particulate Drug Delivery Systems. IEEE Transactions on Biomedical Engineering, 2013, 60, 3468-3483.	2.5	152
79	Interference effects on modulation techniques in diffusion based nanonetworks. Nano Communication Networks, 2012, 3, 65-73.	1.6	151
80	The Predictive User Mobility Profile Framework for Wireless Multimedia Networks. IEEE/ACM Transactions on Networking, 2004, 12, 1021-1035.	2.6	150
81	Current Status and Directions of IEEE 802.11be, the Future Wi-Fi 7. IEEE Access, 2020, 8, 88664-88688.	2.6	147
82	Toward Intelligent Metasurfaces: The Progress from Globally Tunable Metasurfaces to Software-Defined Metasurfaces with an Embedded Network of Controllers. Advanced Optical Materials, 2020, 8, 2000783.	3.6	145
83	A new nanonetwork architecture using flagellated bacteria and catalytic nanomotors. IEEE Journal on Selected Areas in Communications, 2010, 28, 612-619.	9.7	139
84	XLP: A Cross-Layer Protocol for Efficient Communication in Wireless Sensor Networks. IEEE Transactions on Mobile Computing, 2010, 9, 1578-1591.	3.9	135
85	Terahertz Band Communication: An Old Problem Revisited and Research Directions for the Next Decade. IEEE Transactions on Communications, 2022, 70, 4250-4285.	4.9	135
86	A distributed coordination framework for wireless sensor and actor networks. , 2005, , .		131
87	On Receiver Design for Diffusion-Based Molecular Communication. IEEE Transactions on Signal Processing, 2014, 62, 6032-6044.	3.2	131
88	Spectrum management in cognitive radio ad hoc networks. IEEE Network, 2009, 23, 6-12.	4.9	128
89	Energy and spectrum-aware MAC protocol for perpetual wireless nanosensor networks in the Terahertz Band. Ad Hoc Networks, 2013, 11, 2541-2555.	3.4	128
90	Medium access control protocols for multimedia traffic in wireless networks. IEEE Network, 1999, 13, 39-47.	4.9	123

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91	Dynamic mobile user location update for wireless PCS networks. <i>Wireless Networks</i> , 1995, 1, 187-196.	2.0	119
92	Spectrum-Aware Mobility Management in Cognitive Radio Cellular Networks. <i>IEEE Transactions on Mobile Computing</i> , 2012, 11, 529-542.	3.9	118
93	Distance-Aware Bandwidth-Adaptive Resource Allocation for Wireless Systems in the Terahertz Band. <i>IEEE Transactions on Terahertz Science and Technology</i> , 2016, 6, 541-553.	2.0	118
94	Research challenges for traffic engineering in software defined networks. <i>IEEE Network</i> , 2016, 30, 52-58.	4.9	115
95	A Cross-Layer Protocol for Wireless Sensor Networks. , 2006, , .		114
96	A Spatial Correlation Model for Visual Information in Wireless Multimedia Sensor Networks. <i>IEEE Transactions on Multimedia</i> , 2009, 11, 1148-1159.	5.2	106
97	State of the art in protocol research for underwater acoustic sensor networks. <i>Mobile Computing and Communications Review</i> , 2007, 11, 11-22.	1.7	104
98	STOD-RP: A Spectrum-Tree Based On-Demand Routing Protocol for Multi-Hop Cognitive Radio Networks. , 2008, , .		103
99	Monaco: fundamentals of molecular nano-communication networks. <i>IEEE Wireless Communications</i> , 2012, 19, 12-18.	6.6	101
100	Correlation-Aware User Selection for Cooperative Spectrum Sensing in Cognitive Radio Ad Hoc Networks. <i>IEEE Journal on Selected Areas in Communications</i> , 2012, 30, 297-306.	9.7	101
101	LTE-Advanced and the evolution to Beyond 4G (B4G) systems. <i>Physical Communication</i> , 2014, 10, 31-60.	1.2	101
102	A routing framework for energy harvesting wireless nanosensor networks in the Terahertz Band. <i>Wireless Networks</i> , 2014, 20, 1169-1183.	2.0	100
103	Mobility management in current and future communications networks. <i>IEEE Network</i> , 1998, 12, 39-49.	4.9	98
104	Cross-Layer Design in Wireless Mesh Networks. <i>IEEE Transactions on Vehicular Technology</i> , 2008, 57, 1061-1076.	3.9	98
105	SoftWater: Software-defined networking for next-generation underwater communication systems. <i>Ad Hoc Networks</i> , 2016, 46, 1-11.	3.4	98
106	Wireless Underground Sensor Networks: MI-based communication systems for underground applications. <i>IEEE Antennas and Propagation Magazine</i> , 2015, 57, 74-87.	1.2	96
107	On the interdependence of distributed topology control and geographical routing in ad hoc and sensor networks. <i>IEEE Journal on Selected Areas in Communications</i> , 2005, 23, 520-532.	9.7	95
108	A cross-layer communication module for the Internet of Things. <i>Computer Networks</i> , 2013, 57, 622-633.	3.2	95

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109	Distributed Routing Algorithms for Underwater Acoustic Sensor Networks. IEEE Transactions on Wireless Communications, 2010, 9, 2934-2944.	6.1	94
110	Wireless software-defined networks (W-SDNs) and network function virtualization (NFV) for 5G cellular systems: An overview and qualitative evaluation. Computer Networks, 2015, 93, 66-79.	3.2	94
111	The Internet of Space Things/CubeSats: A ubiquitous cyber-physical system for the connected world. Computer Networks, 2019, 150, 134-149.	3.2	92
112	Dynamic hierarchical database architecture for location management in PCS networks. IEEE/ACM Transactions on Networking, 1997, 5, 646-660.	2.6	88
113	Information capacity of pulse-based Wireless Nanosensor Networks. , 2011, , .		87
114	Multi-Wideband Waveform Design for Distance-adaptive Wireless Communications in the Terahertz Band. IEEE Transactions on Signal Processing, 2015, , 1-1.	3.2	85
115	Multiuser Resource Allocation Optimization Using Bandwidth-Power Product in Cognitive Radio Networks. IEEE Journal on Selected Areas in Communications, 2013, 31, 451-463.	9.7	84
116	Graphene-based plasmonic nano-transceiver for terahertz band communication. , 2014, , .		84
117	Design and Development of Software Defined Metamaterials for Nanonetworks. IEEE Circuits and Systems Magazine, 2015, 15, 12-25.	2.6	84
118	A multicast routing algorithm for LEO satellite IP networks. IEEE/ACM Transactions on Networking, 2002, 10, 183-192.	2.6	83
119	Efficient Recovery Control Channel Design in Cognitive Radio Ad Hoc Networks. IEEE Transactions on Vehicular Technology, 2010, 59, 4513-4526.	3.9	83
120	A Statistical Physical Model of Interference in Diffusion-Based Molecular Nanonetworks. IEEE Transactions on Communications, 2014, 62, 2085-2095.	4.9	81
121	A novel communication paradigm for high capacity and security via programmable indoor wireless environments in next generation wireless systems. Ad Hoc Networks, 2019, 87, 1-16.	3.4	80
122	The Internet of Space Things/CubeSats. IEEE Network, 2019, 33, 212-218.	4.9	79
123	TP-Planet: A Reliable Transport Protocol for Interplanetary Internet. IEEE Journal on Selected Areas in Communications, 2004, 22, 348-361.	9.7	74
124	A Multimedia Cross-Layer Protocol for Underwater Acoustic Sensor Networks. IEEE Transactions on Wireless Communications, 2010, 9, 2924-2933.	6.1	74
125	Low-Weight Channel Coding for Interference Mitigation in Electromagnetic Nanonetworks in the Terahertz Band. , 2011, , .		74
126	Dynamic Connectivity in Wireless Underground Sensor Networks. IEEE Transactions on Wireless Communications, 2011, 10, 4334-4344.	6.1	73

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127	Primary User Activity Modeling Using First-Difference Filter Clustering and Correlation in Cognitive Radio Networks. IEEE/ACM Transactions on Networking, 2011, 19, 170-183.	2.6	73
128	RF Energy Harvesting and Transfer for Spectrum Sharing Cellular IoT Communications in 5G Systems. IEEE Transactions on Mobile Computing, 2018, 17, 1680-1694.	3.9	72
129	Realizing Wireless Communication Through Software-Defined HyperSurface Environments. , 2018, , .		70
130	Increasing the Capacity of Magnetic Induction Communications in RF-Challenged Environments. IEEE Transactions on Communications, 2013, 61, 3943-3952.	4.9	68
131	TCP-Peach+: enhancement of TCP-Peach for satellite IP networks. IEEE Communications Letters, 2002, 6, 303-305.	2.5	66
132	A channel assignment algorithm for multi-radio wireless mesh networks. Computer Communications, 2008, 31, 1343-1353.	3.1	66
133	The Internet of Multimedia Nano-Things. Nano Communication Networks, 2012, 3, 242-251.	1.6	66
134	Ultra-Massive MIMO Channel Modeling for Graphene-Enabled Terahertz-Band Communications. , 2018, , .		66
135	Correlation-Aware QoS Routing With Differential Coding for Wireless Video Sensor Networks. IEEE Transactions on Multimedia, 2012, 14, 1469-1479.	5.2	64
136	LOS and NLOS channel modeling for terahertz wireless communication with scattered rays. , 2014, , .		64
137	Distributed Cross-Layer Protocol Design for Magnetic Induction Communication in Wireless Underground Sensor Networks. IEEE Transactions on Wireless Communications, 2015, 14, 4006-4019.	6.1	64
138	Survey on Advances in Magnetic Induction-Based Wireless Underground Sensor Networks. IEEE Internet of Things Journal, 2018, 5, 4843-4856.	5.5	64
139	GARUDA: Achieving Effective Reliability for Downstream Communication in Wireless Sensor Networks. IEEE Transactions on Mobile Computing, 2008, 7, 214-230.	3.9	63
140	Molecular Communication Noise and Capacity Analysis for Particulate Drug Delivery Systems. IEEE Transactions on Communications, 2014, 62, 3891-3903.	4.9	63
141	Moving forward with molecular communication: from theory to human health applications [point of view]. Proceedings of the IEEE, 2019, 107, 858-865.	16.4	63
142	Genetically Engineered Bacteria-Based BioTransceivers for Molecular Communication. IEEE Transactions on Communications, 2015, 63, 1271-1281.	4.9	62
143	Spectrum-aware bio-inspired routing in cognitive radio sensor networks for smart grid applications. Computer Communications, 2017, 101, 106-120.	3.1	62
144	Multimedia group synchronization protocols for integrated services networks. IEEE Journal on Selected Areas in Communications, 1996, 14, 162-173.	9.7	61

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145	Performance Analysis of Handoff Techniques Based on Mobile IP, TCP-Migrate, and SIP. IEEE Transactions on Mobile Computing, 2007, 6, 731-747.	3.9	60
146	MIMO communications based on molecular diffusion. , 2012, , .		60
147	Throughput of the Magnetic Induction Based Wireless Underground Sensor Networks: Key Optimization Techniques. IEEE Transactions on Communications, 2014, 62, 4426-4439.	4.9	60
148	Mean value analysis for blocking queueing networks. IEEE Transactions on Software Engineering, 1988, 14, 418-428.	4.3	59
149	ATL: An Adaptive Transport Layer Suite for Next-Generation Wireless Internet. IEEE Journal on Selected Areas in Communications, 2004, 22, 802-817.	9.7	59
150	On the exact and approximate throughput analysis of closed queueing networks with blocking. IEEE Transactions on Software Engineering, 1988, 14, 62-70.	4.3	58
151	Mutual Coupling Reduction for Ultra-Dense Multi-Band Plasmonic Nano-Antenna Arrays Using Graphene-Based Frequency Selective Surface. IEEE Access, 2019, 7, 33214-33225.	2.6	56
152	Effective Paging Schemes with Delay Bounds as QoS Constraints in Wireless Systems. Wireless Networks, 2001, 7, 455-466.	2.0	55
153	A Communication Architecture for Mobile Wireless Sensor and Actor Networks. , 2006, , .		54
154	Footprint handover rerouting protocol for low Earth orbit satellite networks. Wireless Networks, 1999, 5, 327-337.	2.0	53
155	Bio-Inspired Synchronization for Nanocommunication Networks. , 2011, , .		52
156	Automata modeling of Quorum Sensing for nanocommunication networks. Nano Communication Networks, 2011, 2, 74-83.	1.6	52
157	Three-Dimensional End-to-End Modeling and Analysis for Graphene-Enabled Terahertz Band Communications. IEEE Transactions on Vehicular Technology, 2017, 66, 5626-5634.	3.9	52
158	Satellite grouping and routing protocol for LEO/MEO satellite IP networks. , 2002, , .		52
159	Cross-Layer Analysis of Error Control in Wireless Sensor Networks. , 2006, , .		51
160	Cross-layer QoS-aware communication for ultra wide band wireless multimedia sensor networks. IEEE Journal on Selected Areas in Communications, 2010, 28, 653-663.	9.7	50
161	A Spatial Correlation-Based Image Compression Framework for Wireless Multimedia Sensor Networks. IEEE Transactions on Multimedia, 2011, 13, 388-401.	5.2	49
162	Distance-aware multi-carrier (DAMC) modulation in Terahertz Band communication. , 2014, , .		49

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163	A new CubeSat design with reconfigurable multi-band radios for dynamic spectrum satellite communication networks. <i>Ad Hoc Networks</i> , 2019, 86, 166-178.	3.4	49
164	Handover management in Low Earth Orbit (LEO) satellite networks. <i>Mobile Networks and Applications</i> , 1999, 4, 301-310.	2.2	48
165	Pharmacokinetic Modeling and Biodistribution Estimation Through the Molecular Communication Paradigm. <i>IEEE Transactions on Biomedical Engineering</i> , 2015, 62, 2410-2420.	2.5	48
166	On capacity of magnetic induction-based wireless underground sensor networks. , 2012, , .		47
167	Intelligent Environments Based on Ultra-massive Mimo Platforms for Wireless Communication in Millimeter Wave and Terahertz Bands. , 2019, , .		47
168	A new signaling protocol for intersystem roaming in next-generation wireless systems. <i>IEEE Journal on Selected Areas in Communications</i> , 2001, 19, 2040-2052.	9.7	46
169	ARC: The Analytical Rate Control Scheme for Real-Time Traffic in Wireless Networks. <i>IEEE/ACM Transactions on Networking</i> , 2004, 12, 634-644.	2.6	46
170	FEBA: A Bandwidth Allocation Algorithm for Service Differentiation in IEEE 802.16 Mesh Networks. <i>IEEE/ACM Transactions on Networking</i> , 2009, 17, 884-897.	2.6	46
171	TCP CRAHN: A Transport Control Protocol for Cognitive Radio Ad Hoc Networks. <i>IEEE Transactions on Mobile Computing</i> , 2013, 12, 790-803.	3.9	46
172	Magnetic Induction-Based Localization in Randomly Deployed Wireless Underground Sensor Networks. <i>IEEE Internet of Things Journal</i> , 2017, 4, 1454-1465.	5.5	46
173	Title is missing!. <i>Wireless Networks</i> , 2000, 6, 181-190.	2.0	45
174	Optimal location area design to minimize registration signaling traffic in wireless systems. <i>IEEE Transactions on Mobile Computing</i> , 2003, 2, 76-85.	3.9	45
175	Molecular Communication Modeling of Antibody-Mediated Drug Delivery Systems. <i>IEEE Transactions on Biomedical Engineering</i> , 2015, 62, 1683-1695.	2.5	45
176	New Preemption Policies for DiffServ-Aware Traffic Engineering to Minimize Rerouting in MPLS Networks. <i>IEEE/ACM Transactions on Networking</i> , 2004, 12, 733-745.	2.6	44
177	Collaborative Data Compression Using Clustered Source Coding for Wireless Multimedia Sensor Networks. , 2010, , .		44
178	Information capacity of diffusion-based molecular communication in nanonetworks. , 2011, , .		43
179	Performance analysis of Time Warp with multiple homogeneous processors. <i>IEEE Transactions on Software Engineering</i> , 1991, 17, 1013-1027.	4.3	42
180	Performance of TCP protocols in deep space communication networks. <i>IEEE Communications Letters</i> , 2002, 6, 478-480.	2.5	41

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181	Optimal Primary-User Mobility Aware Spectrum Sensing Design for Cognitive Radio Networks. IEEE Journal on Selected Areas in Communications, 2013, 31, 2161-2172.	9.7	41
182	On the Network-Layer Modeling and Configuration of Programmable Wireless Environments. IEEE/ACM Transactions on Networking, 2019, 27, 1696-1713.	2.6	41
183	Exploration of Intercell Wireless Millimeter-Wave Communication in the Landscape of Intelligent Metasurfaces. IEEE Access, 2019, 7, 122931-122948.	2.6	41
184	An Interpretable Neural Network for Configuring Programmable Wireless Environments. , 2019, , .		41
185	OPERA: Optimal Routing Metric for Cognitive Radio Ad Hoc Networks. IEEE Transactions on Wireless Communications, 2012, , 1-11.	6.1	40
186	An Information Theoretic Framework to Analyze Molecular Communication Systems Based on Statistical Mechanics. Proceedings of the IEEE, 2019, 107, 1230-1255.	16.4	40
187	PANACEA: An Internet of Bio-NanoThings Application for Early Detection and Mitigation of Infectious Diseases. IEEE Access, 2020, 8, 140512-140523.	2.6	40
188	Distributed Self-Healing and Variable Topology Optimization Algorithms for QoS Provisioning in Scatternets. IEEE Journal on Selected Areas in Communications, 2004, 22, 1220-1236.	9.7	39
189	Primary-user mobility impact on spectrum sensing in Cognitive Radio networks. , 2011, , .		39
190	Channel-aware routing and priority-aware multi-channel scheduling for WSN-based smart grid applications. Journal of Network and Computer Applications, 2016, 71, 50-58.	5.8	39
191	An End-to-End Model of Plant Pheromone Channel for Long Range Molecular Communication. IEEE Transactions on Nanobioscience, 2017, 16, 11-20.	2.2	39
192	An optimal paging scheme for minimizing signaling costs under delay bounds. IEEE Communications Letters, 2001, 5, 43-45.	2.5	38
193	Wireless sensor and actor networks: research challenges*1. Ad Hoc Networks, 2004, 2, 351-351.	3.4	38
194	On network connectivity of wireless sensor networks for sandstorm monitoring. Computer Networks, 2011, 55, 1150-1157.	3.2	38
195	Optimal Deployment for Magnetic Induction-Based Wireless Networks in Challenged Environments. IEEE Transactions on Wireless Communications, 2013, 12, 996-1005.	6.1	38
196	Connectivity in Wireless Underground Sensor Networks. , 2010, , .		37
197	Digital Signal Transmission in Magnetic Induction Based Wireless Underground Sensor Networks. IEEE Transactions on Communications, 2015, 63, 2300-2311.	4.9	36
198	Reinforcement learning-based cooperative sensing in cognitive radio ad hoc networks. , 2010, , .		34

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199	Magnetic Induction-Based Simultaneous Wireless Information and Power Transfer for Single Information and Multiple Power Receivers. IEEE Transactions on Communications, 2017, 65, 1396-1410.	4.9	34
200	Intersymbol and co-channel interference in diffusion-based molecular communication. , 2012, , .		33
201	Designing Large-Scale Constellations for the Internet of Space Things With CubeSats. IEEE Internet of Things Journal, 2021, 8, 1749-1768.	5.5	33
202	PROTON: a media access control protocol for optical networks with star topology. IEEE/ACM Transactions on Networking, 1995, 3, 158-168.	2.6	32
203	Spatial Correlation and Mobility-Aware Traffic Modeling for Wireless Sensor Networks. IEEE/ACM Transactions on Networking, 2011, 19, 1860-1873.	2.6	32
204	Energy-Efficient Multi-Stream Carrier Aggregation for Heterogeneous Networks in 5G Wireless Systems. IEEE Transactions on Wireless Communications, 2016, 15, 7432-7443.	6.1	32
205	Energy Consumption Analysis and Minimization in Multi-Layer Heterogeneous Wireless Systems. IEEE Transactions on Mobile Computing, 2015, 14, 2474-2487.	3.9	31
206	Enabling the Internet of Things With Wi-Fi Halowâ€™Performance Evaluation of the Restricted Access Window. IEEE Access, 2019, 7, 127402-127415.	2.6	31
207	A cross-layer communication solution for multimedia applications in underwater acoustic sensor networks. , 2008, , .		30
208	A receiver architecture for pulse-based electromagnetic nanonetworks in the Terahertz Band. , 2012, , .		30
209	Deployment Algorithms for Wireless Underground Sensor Networks Using Magnetic Induction. , 2010, , .		29
210	Multiagent jamming-resilient control channel game for cognitive radio ad hoc networks. , 2012, , .		29
211	The Impact of Social Behavior on the Attenuation and Delay of Bacterial Nanonetworks. IEEE Transactions on Nanobioscience, 2016, 15, 959-969.	2.2	29
212	Prototyping and Experimental Study of Non-Orthogonal Multiple Access in Wi-Fi Networks. IEEE Network, 2020, 34, 210-217.	4.9	29
213	Product form approximations for queueing networks with multiple servers and blocking. IEEE Transactions on Computers, 1989, 38, 99-114.	2.4	28
214	A Distributed Multicast Routing Scheme for Multi-Layered Satellite IP Networks. Wireless Networks, 2003, 9, 535-544.	2.0	28
215	End-to-End Propagation Noise and Memory Analysis for Molecular Communication over Microfluidic Channels. IEEE Transactions on Communications, 2014, 62, 2432-2443.	4.9	28
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