

Basem Shihada

List of Publications by Year in Descending Order

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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.

148
papers

1,709
citations

20
h-index

35
g-index

174
ext. papers

2,329
ext. citations

5.6
avg, IF

5.9
L-index

#	Paper	IF	Citations
148	Energy-Aware Underwater Optical System With Combined Solar Cell and SPAD Receiver. <i>IEEE Communications Letters</i> , 2022 , 26, 59-63	3.8	1
147	Channel Characterization of IRS-based Visible Light Communication Systems. <i>IEEE Transactions on Communications</i> , 2022 , 1-1	6.9	2
146	Revolutionizing Optical Wireless Communications via Smart Optics. <i>IEEE Open Journal of the Communications Society</i> , 2022 , 1-1	6.7	3
145	Efficient Wireless Traffic Prediction at the Edge: A Federated Meta-Learning Approach. <i>IEEE Communications Letters</i> , 2022 , 1-1	3.8	1
144	Proactive Traffic Offloading in Dynamic Integrated Multi-Satellite Terrestrial Networks. <i>IEEE Transactions on Communications</i> , 2022 , 1-1	6.9	1
143	Heterogeneous Traffic Offloading in Space-Air-Ground Integrated Networks. <i>IEEE Access</i> , 2021 , 9, 165463-165475	3.5	475
142	On Outage Performance of Terahertz Wireless Communication Systems. <i>IEEE Transactions on Communications</i> , 2021 , 1-1	6.9	2
141	Hyperloop Communications: Challenges, Advances, and Approaches. <i>IEEE Open Journal of the Communications Society</i> , 2021 , 2, 2413-2435	6.7	2
140	Networking research for the Arab world. <i>Communications of the ACM</i> , 2021 , 64, 114-119	2.5	0
139	Dual Attention-Based Federated Learning for Wireless Traffic Prediction 2021 ,		7
138	Can blockchain link the future?. <i>Digital Communications and Networks</i> , 2021 ,	5.9	9
137	Visible Light Communications via Intelligent Reflecting Surfaces: Metasurfaces vs Mirror Arrays. <i>IEEE Open Journal of the Communications Society</i> , 2021 , 2, 1-20	6.7	29
136	Power Allocation for Relayed OFDM With Index Modulation Assisted by Artificial Neural Network. <i>IEEE Wireless Communications Letters</i> , 2021 , 10, 373-377	5.9	2
135	On Telecommunication Service Imbalance and Infrastructure Resource Deployment. <i>IEEE Wireless Communications Letters</i> , 2021 , 1-1	5.9	2
134	A Power Saving Scheme for IEEE 802.15.3d THz Wireless Communication Links. <i>IEEE Transactions on Mobile Computing</i> , 2021 , 1-1	4.6	2
133	Information-Theoretic Analysis of OFDM with Subcarrier Number Modulation. <i>IEEE Transactions on Information Theory</i> , 2021 , 1-1	2.8	0
132	Energy-Efficient Trajectory Optimization for UAV-Assisted IoT Networks. <i>IEEE Transactions on Mobile Computing</i> , 2021 , 1-1	4.6	8

131	Modeling Co-Channel Interference in the THz Band. <i>IEEE Transactions on Vehicular Technology</i> , 2021 , 70, 6319-6334	6.8	2
130	. <i>IEEE Transactions on Communications</i> , 2021 , 69, 5028-5042	6.9	1
129	Viral Aerosol Concentration Characterization and Detection in Bounded Environments. <i>IEEE Transactions on Molecular, Biological, and Multi-Scale Communications</i> , 2021 , 7, 185-199	2.3	1
128	The Optimal and the Greedy: Drone Association and Positioning Schemes for Internet of UAVs. <i>IEEE Internet of Things Journal</i> , 2021 , 8, 14066-14079	10.7	8
127	Accelerate Monte Carlo Simulation for Probability Measures by an Interrupt Mechanism. <i>IEEE Communications Letters</i> , 2021 , 25, 2854-2858	3.8	
126	Opportunistic Routing for Opto-Acoustic Internet of Underwater Things. <i>IEEE Internet of Things Journal</i> , 2021 , 1-1	10.7	4
125	On the Capacity of Reconfigurable Intelligent Surface Assisted MIMO Symbiotic Communications. <i>IEEE Transactions on Wireless Communications</i> , 2021 , 1-1	9.6	0
124	Topology Optimization for 6G Networks: A Network Information-Theoretic Approach. <i>IEEE Vehicular Technology Magazine</i> , 2020 , 15, 83-92	9.9	7
123	A Journey From Improper Gaussian Signaling to Asymmetric Signaling. <i>IEEE Communications Surveys and Tutorials</i> , 2020 , 22, 1539-1591	37.1	12
122	Energy-Efficient Fixed-Gain AF Relay Assisted OFDM With Index Modulation. <i>IEEE Wireless Communications Letters</i> , 2020 , 9, 1509-1513	5.9	1
121	Latency-Aware Offloading in Integrated Satellite Terrestrial Networks. <i>IEEE Open Journal of the Communications Society</i> , 2020 , 1, 490-500	6.7	16
120	Aqua-Fi: Delivering Internet Underwater Using Wireless Optical Networks. <i>IEEE Communications Magazine</i> , 2020 , 58, 84-89	9.1	12
119	Modeling of Viral Aerosol Transmission and Detection. <i>IEEE Transactions on Communications</i> , 2020 , 68, 4859-4873	6.9	19
118	Spectral Efficiency and Energy Harvesting in Multi-Cell SLIPT Systems. <i>IEEE Transactions on Wireless Communications</i> , 2020 , 19, 3304-3318	9.6	16
117	Enhanced Huffman Coded OFDM With Index Modulation. <i>IEEE Transactions on Wireless Communications</i> , 2020 , 19, 2489-2503	9.6	3
116	What should 6G be?. <i>Nature Electronics</i> , 2020 , 3, 20-29	28.4	401
115	LightFDG: An Integrated Approach to Flow Detection and Grooming in Optical Wireless DCNs. <i>IEEE Transactions on Network and Service Management</i> , 2020 , 17, 1153-1166	4.8	3
114	A Software-Defined Opto-Acoustic Network Architecture for Internet of Underwater Things. <i>IEEE Communications Magazine</i> , 2020 , 58, 88-94	9.1	19

113	Rethinking Blockchain Integration with the Industrial Internet of Things. <i>IEEE Internet of Things Magazine</i> , 2020 , 3, 70-75	3.5	1
112	. <i>IEEE Transactions on Wireless Communications</i> , 2020 , 19, 1167-1181	9.6	25
111	Terahertz Band: The Last Piece of RF Spectrum Puzzle for Communication Systems. <i>IEEE Open Journal of the Communications Society</i> , 2020 , 1, 1-32	6.7	121
110	A memory-oriented MAC-layer design for future IoT systems. <i>Ad Hoc Networks</i> , 2020 , 108, 102276	4.8	
109	SoftFG: A Dynamic Load Balancer for Soft Reconfiguration of Wireless Data Centers 2020 ,		1
108	Relay Assisted OFDM With Subcarrier Number Modulation in Multi-Hop Cooperative Networks. <i>IEEE Wireless Communications Letters</i> , 2020 , 9, 1869-1873	5.9	7
107	Space-Air-Ground Integrated Networks: Outage Performance Analysis. <i>IEEE Transactions on Wireless Communications</i> , 2020 , 19, 7897-7912	9.6	27
106	Location-Aware, Context-Driven QoS for IoT Applications. <i>IEEE Systems Journal</i> , 2020 , 14, 232-243	4.3	8
105	Blockchain in IoT Systems: End-to-End Delay Evaluation. <i>IEEE Internet of Things Journal</i> , 2019 , 6, 8332-8344	4.7	19
104	Energy Efficient Traffic Offloading in Multi-Tier Heterogeneous 5G Networks Using Intuitive Online Reinforcement Learning. <i>IEEE Transactions on Green Communications and Networking</i> , 2019 , 3, 691-702	4	9
103	Analyzing Latency and Dropping in Today's Internet of Multimedia Things 2019 ,		1
102	Enhanced Orthogonal Frequency-Division Multiplexing With Subcarrier Number Modulation. <i>IEEE Internet of Things Journal</i> , 2019 , 6, 7907-7920	10.7	17
101	A Novel Error Performance Analysis Methodology for OFDM-IM. <i>IEEE Wireless Communications Letters</i> , 2019 , 8, 897-900	5.9	8
100	Queuing Delay Model for Video Transmission Over Multi-Channel Underwater Wireless Optical Networks. <i>IEEE Access</i> , 2019 , 7, 10515-10522	3.5	4
99	Communication through Breath: Aerosol Transmission. <i>IEEE Communications Magazine</i> , 2019 , 57, 33-39	9.1	25
98	An Efficient Content Delivery System for 5G CRAN Employing Realistic Human Mobility. <i>IEEE Transactions on Mobile Computing</i> , 2019 , 18, 742-756	4.6	4
97	Spectral-Efficiency Illumination Pareto Front for Energy Harvesting Enabled VLC Systems. <i>IEEE Transactions on Communications</i> , 2019 , 67, 8557-8572	6.9	11
96	Learn-As-You-Fly: A Distributed Algorithm for Joint 3D Placement and User Association in Multi-UAVs Networks. <i>IEEE Transactions on Wireless Communications</i> , 2019 , 18, 5831-5844	9.6	26

95	Optical wireless data center networks: potentials, limitations, and prospects 2019 ,		8
94	A Distributed Mechanism for Joint 3D Placement and User Association in UAV-Assisted Networks 2019 ,		8
93	SectOR: Sector-Based Opportunistic Routing Protocol for Underwater Optical Wireless Networks 2019 ,		7
92	Practical and Dynamic Buffer Sizing Using LearnQueue. <i>IEEE Transactions on Mobile Computing</i> , 2019 , 18, 1885-1897	4.6	6
91	Downlink Resource Allocation for Dynamic TDMA-Based VLC Systems. <i>IEEE Transactions on Wireless Communications</i> , 2019 , 18, 108-120	9.6	25
90	Design and Provision of Traffic Grooming for Optical Wireless Data Center Networks. <i>IEEE Transactions on Communications</i> , 2019 , 67, 2245-2259	6.9	8
89	Improper Gaussian Signaling for Hardware Impaired Multihop Full-Duplex Relaying Systems. <i>IEEE Transactions on Communications</i> , 2019 , 67, 1858-1871	6.9	13
88	Sophisticated Online Learning Scheme for Green Resource Allocation in 5G Heterogeneous Cloud Radio Access Networks. <i>IEEE Transactions on Mobile Computing</i> , 2018 , 17, 2423-2437	4.6	30
87	UHD Video Transmission Over Bidirectional Underwater Wireless Optical Communication. <i>IEEE Photonics Journal</i> , 2018 , 10, 1-14	1.8	20
86	Intelligent Edge: An Instantaneous Detection of IoT Traffic Load 2018 ,		3
85	FLight: A Fast and Lightweight Elephant-Flow Detection Mechanism 2018 ,		7
84	Delay analysis of new-flow setup time in software defined networks 2018 ,		6
83	Design and provisioning of optical wireless data center networks: A traffic grooming approach 2018 ,		7
82	On the Optimization of Multi-Cell SLIPT Systems 2018 ,		2
81	Battling Latency in Modern Wireless Networks. <i>IEEE Access</i> , 2018 , 6, 26131-26143	3.5	4
80	An Efficient Live TV Scheduling System for 4G LTE Broadcast. <i>IEEE Systems Journal</i> , 2017 , 11, 2737-2748	4.3	11
79	. <i>IEEE Transactions on Vehicular Technology</i> , 2017 , 66, 3071-3087	6.8	4
78	Energy-Efficient Power Allocation in Multitier 5G Networks Using Enhanced Online Learning. <i>IEEE Transactions on Vehicular Technology</i> , 2017 , 66, 11086-11097	6.8	31

77	Real-Time Video Transmission Over Different Underwater Wireless Optical Channels Using a Directly Modulated 520 nm Laser Diode. <i>Journal of Optical Communications and Networking</i> , 2017 , 9, 826	4.1	39
76	Optimal Cross-Layer Design for Energy Efficient D2D Sharing Systems. <i>IEEE Transactions on Wireless Communications</i> , 2017 , 16, 839-855	9.6	5
75	Failure mitigation in software defined networking employing load type prediction 2017 ,		2
74	On the analysis of human mobility model for content broadcasting in 5G networks 2017 ,		2
73	Enhanced machine learning scheme for energy efficient resource allocation in 5G heterogeneous cloud radio access networks 2017 ,		20
72	A cooperative online learning scheme for resource allocation in 5G systems 2016 ,		24
71	gTBS: A green Task-Based Sensing for energy efficient Wireless Sensor Networks 2016 ,		14
70	Energy efficient cross layer design for spectrum sharing systems 2016 ,		1
69	Buffer sizing in wireless networks: challenges, solutions, and opportunities 2016 , 54, 130-137		16
68	Energy efficient SDN commodity switch based practical flow forwarding method 2016 ,		2
67	Dropping probability reduction in OBS networks: A simple approach. <i>Optik</i> , 2016 , 127, 9947-9960	2.5	1
66	An energy efficient cognitive radio system with quantized soft sensing and duration analysis 2015 ,		6
65	Parallel Void Thread in Long-Reach Ethernet Passive Optical Networks. <i>Journal of Optical Communications and Networking</i> , 2015 , 7, 656	4.1	2
64	Cognitive Aware Interference Mitigation Scheme for LTE Femtocells. <i>Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering</i> , 2015 , 607-619	0.2	2
63	Green partial packet recovery in wireless sensor networks. <i>Journal of Network and Computer Applications</i> , 2015 , 58, 267-279	7.9	4
62	TV Broadcast Efficiency in 5G Networks from Subscriber Prospective 2015 ,		3
61	Green frame aggregation scheme for Wi-Fi networks 2015 ,		3
60	Buffer management in wireless full-duplex systems 2015 ,		2

59	An energy efficient hybrid interference-resilient frame fragmentation for wireless sensor networks 2015 ,		1
58	Green smartphone GPUs: Optimizing energy consumption using GPUFreq scaling governors 2015 ,		5
57	A Jackson network model and threshold policy for joint optimization of energy and delay in multi-hop wireless networks. <i>European Journal of Operational Research</i> , 2015 , 242, 778-787	5.6	10
56	Energy Efficient Resource Allocation for Cognitive Radios: A Generalized Sensing Analysis. <i>IEEE Transactions on Wireless Communications</i> , 2015 , 14, 2455-2469	9.6	36
55	Deflating link buffers in a wireless mesh network. <i>Ad Hoc Networks</i> , 2014 , 16, 266-280	4.8	4
54	Fair packet scheduling in Wireless Mesh Networks. <i>Ad Hoc Networks</i> , 2014 , 13, 414-427	4.8	5
53	iFrag: interference-aware frame fragmentation scheme for wireless sensor networks. <i>Wireless Networks</i> , 2014 , 20, 2019-2036	2.5	4
52	. <i>IEEE/ACM Transactions on Networking</i> , 2014 , 22, 850-863	3.8	46
51	A Practical Approach For Excess Bandwidth Distribution for EPONs 2014 ,		2
50	Energy efficient scheme for cognitive radios utilizing soft sensing 2014 ,		4
49	End-to-end delay analysis in wireless sensor networks with service vacation 2014 ,		4
48	Adaptive Decision-Making Scheme for Cognitive Radio Networks 2014 ,		4
47	WQM 2014 ,		7
46	An empirical evaluation of bufferbloat in IEEE 802.11n wireless networks 2014 ,		11
45	Power and delay optimisation in multi-hop wireless networks. <i>International Journal of Control</i> , 2014 , 87, 1252-1265	1.5	2
44	Energy Efficiency and SINR Maximization Beamformers for Spectrum Sharing With Sensing Information. <i>IEEE Transactions on Wireless Communications</i> , 2014 , 13, 5095-5106	9.6	8
43	Mobile Sensor Networks for Leak and Backflow Detection in Water Distribution Systems 2014 ,		7
42	Energy efficiency and SINR maximization beamformers for cognitive radio utilizing sensing information 2014 ,		3

41	Adaptive multi-objective Optimization scheme for cognitive radio resource management 2014 ,		4
40	The efficacy of centralized flow rate control in 802.11-based wireless mesh networks. <i>Eurasip Journal on Wireless Communications and Networking</i> , 2013 , 2013,	3.2	3
39	Self-Adaptive Contention Aware Routing Protocol for Intermittently Connected Mobile Networks. <i>IEEE Transactions on Parallel and Distributed Systems</i> , 2013 , 24, 1422-1435	3.7	16
38	Contention aware mobility prediction routing for intermittently connected mobile networks. <i>Wireless Networks</i> , 2013 , 19, 2093-2108	2.5	1
37	Green-Frag: Energy-efficient frame fragmentation scheme for wireless sensor networks 2013 ,		2
36	Enhanced cognitive Radio Resource Management for LTE systems 2013 ,		4
35	Optimal Node Placement in Underwater Wireless Sensor Networks 2013 ,		22
34	A Novel Message Scheduling Framework for Delay Tolerant Networks Routing. <i>IEEE Transactions on Parallel and Distributed Systems</i> , 2013 , 24, 871-880	3.7	23
33	On Event Detection and Localization in Acyclic Flow Networks. <i>IEEE Transactions on Systems, Man, and Cybernetics: Systems</i> , 2013 , 43, 708-723	7.3	22
32	Decentralized control of transmission rates in energy-critical wireless networks 2013 ,		1
31	. <i>IEEE Transactions on Automatic Control</i> , 2013 , 58, 1051-1056	5.9	19
30	FAST TCP over optical burst switched networks: Modeling and stability analysis. <i>Optical Switching and Networking</i> , 2013 , 10, 107-118	1.6	3
29	2013 ,		6
28	Video Quality Prediction over Wireless 4G. <i>Lecture Notes in Computer Science</i> , 2013 , 414-425	0.9	1
27	Event localization in underwater wireless sensor networks using Monitoring Courses 2012 ,		2
26	Sleep-time sizing and scheduling in green passive optical networks 2012 ,		1
25	MAC-layer protocol for TCP fairness in Wireless Mesh Networks 2012 ,		2
24	M-Burst: A Framework of SRLG Failure Localization in All-Optical Networks. <i>Journal of Optical Communications and Networking</i> , 2012 , 4, 628	4.1	12

23	Downstream-based Scheduling for Energy Conservation in Green EPONs. <i>Journal of Communications</i> , 2012 , 7,	0.5	9
22	Towards Optimal Event Detection and Localization in Acyclic Flow Networks. <i>Lecture Notes in Computer Science</i> , 2012 , 179-196	0.9	3
21	A Novel Buffer Management Architecture for Epidemic Routing in Delay Tolerant Networks (DTNs). <i>Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering</i> , 2012 , 438-453	0.2	1
20	2011 ,		9
19	Monitoring burst (M-burst) A novel framework of failure localization in all-optical mesh networks 2011 ,		4
18	TMAC: Timestamp-Ordered MAC for CSMA/CA Wireless Mesh Networks 2011 ,		5
17	Energy Efficient Monitoring for Intrusion Detection in Battery-Powered Wireless Mesh Networks. <i>Lecture Notes in Computer Science</i> , 2011 , 44-57	0.9	5
16	Whirlpool routing for mobility 2010 ,		13
15	ARBR: Adaptive reinforcement-based routing for DTN 2010 ,		23
14	MAC-Layer Active Dropping for Real-Time Video Streaming in 4G Access Networks. <i>IEEE Systems Journal</i> , 2010 , 4, 561-572	4.3	3
13	A novel implementation of TCP Vegas for optical burst switched networks. <i>Optical Switching and Networking</i> , 2010 , 7, 115-126	1.6	7
12	Optimizing Energy and Modulation Selection in Multi-Resolution Modulation For Wireless Video Broadcast/Multicast. <i>Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering</i> , 2010 , 67-79	0.2	
11	A Novel Congestion Detection Scheme in TCP Over OBS Networks. <i>Journal of Lightwave Technology</i> , 2009 , 27, 386-395	4	8
10	Transport control protocol in optical burst switched networks: issues, solutions, and challenges. <i>IEEE Communications Surveys and Tutorials</i> , 2008 , 10, 70-86	37.1	14
9	A novel TCP with dynamic Burst-Contention Loss notification over OBS networks. <i>Computer Networks</i> , 2008 , 52, 461-471	5.4	5
8	TCP-ENG: Dynamic Explicit Congestion Notification for TCP over OBS Networks 2007 ,		4
7	A Novel False Congestion Detection Scheme for TCP over OBS Networks 2007 ,		2
6	2006 ,		7

5	Performance Evaluation of TCP Vegas over Optical Burst Switched Networks 2006 ,	2
4	Threshold-based TCP Vegas over Optical Burst Switched Networks. <i>Computer Communications and Networks (IC3N), Proceedings of the IEEE International Conference on</i> , 2006 ,	7
3	A Network Management Viewpoint on Security in E-Services. <i>IFIP Advances in Information and Communication Technology</i> , 2003 , 17-45	0.5
2	From a Human-Centric Perspective: What Might 6G Be?	4
1	Enabling Smart Buildings by Indoor Visible Light Communications and Machine Learning	3