

# Basem Shihada

## 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.

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	What should 6G be?. <i>Nature Electronics</i> , <b>2020</b> , 3, 20-29	28.4	401
147	Terahertz Band: The Last Piece of RF Spectrum Puzzle for Communication Systems. <i>IEEE Open Journal of the Communications Society</i> , <b>2020</b> , 1, 1-32	6.7	121
146	. <i>IEEE/ACM Transactions on Networking</i> , <b>2014</b> , 22, 850-863	3.8	46
145	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> , <b>2017</b> , 9, 826	4.1	39
144	Energy Efficient Resource Allocation for Cognitive Radios: A Generalized Sensing Analysis. <i>IEEE Transactions on Wireless Communications</i> , <b>2015</b> , 14, 2455-2469	9.6	36
143	Energy-Efficient Power Allocation in Multitier 5G Networks Using Enhanced Online Learning. <i>IEEE Transactions on Vehicular Technology</i> , <b>2017</b> , 66, 11086-11097	6.8	31
142	Sophisticated Online Learning Scheme for Green Resource Allocation in 5G Heterogeneous Cloud Radio Access Networks. <i>IEEE Transactions on Mobile Computing</i> , <b>2018</b> , 17, 2423-2437	4.6	30
141	Visible Light Communications via Intelligent Reflecting Surfaces: Metasurfaces vs Mirror Arrays. <i>IEEE Open Journal of the Communications Society</i> , <b>2021</b> , 2, 1-20	6.7	29
140	Space-Air-Ground Integrated Networks: Outage Performance Analysis. <i>IEEE Transactions on Wireless Communications</i> , <b>2020</b> , 19, 7897-7912	9.6	27
139	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> , <b>2019</b> , 18, 5831-5844	9.6	26
138	Communication through Breath: Aerosol Transmission. <i>IEEE Communications Magazine</i> , <b>2019</b> , 57, 33-39	9.1	25
137	. <i>IEEE Transactions on Wireless Communications</i> , <b>2020</b> , 19, 1167-1181	9.6	25
136	Downlink Resource Allocation for Dynamic TDMA-Based VLC Systems. <i>IEEE Transactions on Wireless Communications</i> , <b>2019</b> , 18, 108-120	9.6	25
135	A cooperative online learning scheme for resource allocation in 5G systems <b>2016</b> ,		24
134	A Novel Message Scheduling Framework for Delay Tolerant Networks Routing. <i>IEEE Transactions on Parallel and Distributed Systems</i> , <b>2013</b> , 24, 871-880	3.7	23
133	ARBR: Adaptive reinforcement-based routing for DTN <b>2010</b> ,		23
132	Optimal Node Placement in Underwater Wireless Sensor Networks <b>2013</b> ,		22

131	On Event Detection and Localization in Acyclic Flow Networks. <i>IEEE Transactions on Systems, Man, and Cybernetics: Systems</i> , <b>2013</b> , 43, 708-723	7.3	22
130	UHD Video Transmission Over Bidirectional Underwater Wireless Optical Communication. <i>IEEE Photonics Journal</i> , <b>2018</b> , 10, 1-14	1.8	20
129	Enhanced machine learning scheme for energy efficient resource allocation in 5G heterogeneous cloud radio access networks <b>2017</b> ,		20
128	Blockchain in IoT Systems: End-to-End Delay Evaluation. <i>IEEE Internet of Things Journal</i> , <b>2019</b> , 6, 8332-8344	4.7	19
127	Modeling of Viral Aerosol Transmission and Detection. <i>IEEE Transactions on Communications</i> , <b>2020</b> , 68, 4859-4873	6.9	19
126	A Software-Defined Opto-Acoustic Network Architecture for Internet of Underwater Things. <i>IEEE Communications Magazine</i> , <b>2020</b> , 58, 88-94	9.1	19
125	. <i>IEEE Transactions on Automatic Control</i> , <b>2013</b> , 58, 1051-1056	5.9	19
124	Enhanced Orthogonal Frequency-Division Multiplexing With Subcarrier Number Modulation. <i>IEEE Internet of Things Journal</i> , <b>2019</b> , 6, 7907-7920	10.7	17
123	Latency-Aware Offloading in Integrated Satellite Terrestrial Networks. <i>IEEE Open Journal of the Communications Society</i> , <b>2020</b> , 1, 490-500	6.7	16
122	Spectral Efficiency and Energy Harvesting in Multi-Cell SLIPT Systems. <i>IEEE Transactions on Wireless Communications</i> , <b>2020</b> , 19, 3304-3318	9.6	16
121	Self-Adaptive Contention Aware Routing Protocol for Intermittently Connected Mobile Networks. <i>IEEE Transactions on Parallel and Distributed Systems</i> , <b>2013</b> , 24, 1422-1435	3.7	16
120	Buffer sizing in wireless networks: challenges, solutions, and opportunities <b>2016</b> , 54, 130-137		16
119	gTBS: A green Task-Based Sensing for energy efficient Wireless Sensor Networks <b>2016</b> ,		14
118	Transport control protocol in optical burst switched networks: issues, solutions, and challenges. <i>IEEE Communications Surveys and Tutorials</i> , <b>2008</b> , 10, 70-86	37.1	14
117	Whirlpool routing for mobility <b>2010</b> ,		13
116	Improper Gaussian Signaling for Hardware Impaired Multihop Full-Duplex Relaying Systems. <i>IEEE Transactions on Communications</i> , <b>2019</b> , 67, 1858-1871	6.9	13
115	A Journey From Improper Gaussian Signaling to Asymmetric Signaling. <i>IEEE Communications Surveys and Tutorials</i> , <b>2020</b> , 22, 1539-1591	37.1	12
114	Aqua-Fi: Delivering Internet Underwater Using Wireless Optical Networks. <i>IEEE Communications Magazine</i> , <b>2020</b> , 58, 84-89	9.1	12

113	M-Burst: A Framework of SRLG Failure Localization in All-Optical Networks. <i>Journal of Optical Communications and Networking</i> , <b>2012</b> , 4, 628	4.1	12
112	An Efficient Live TV Scheduling System for 4G LTE Broadcast. <i>IEEE Systems Journal</i> , <b>2017</b> , 11, 2737-2748	4.3	11
111	Spectral-Efficiency Illumination Pareto Front for Energy Harvesting Enabled VLC Systems. <i>IEEE Transactions on Communications</i> , <b>2019</b> , 67, 8557-8572	6.9	11
110	An empirical evaluation of bufferbloat in IEEE 802.11n wireless networks <b>2014</b> ,		11
109	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> , <b>2015</b> , 242, 778-787	5.6	10
108	Energy Efficient Traffic Offloading in Multi-Tier Heterogeneous 5G Networks Using Intuitive Online Reinforcement Learning. <i>IEEE Transactions on Green Communications and Networking</i> , <b>2019</b> , 3, 691-702	4	9
107	<b>2011</b> ,		9
106	Downstream-based Scheduling for Energy Conservation in Green EPONs. <i>Journal of Communications</i> , <b>2012</b> , 7,	0.5	9
105	Can blockchain link the future?. <i>Digital Communications and Networks</i> , <b>2021</b> ,	5.9	9
104	A Novel Error Performance Analysis Methodology for OFDM-IM. <i>IEEE Wireless Communications Letters</i> , <b>2019</b> , 8, 897-900	5.9	8
103	Energy Efficiency and SINR Maximization Beamformers for Spectrum Sharing With Sensing Information. <i>IEEE Transactions on Wireless Communications</i> , <b>2014</b> , 13, 5095-5106	9.6	8
102	A Novel Congestion Detection Scheme in TCP Over OBS Networks. <i>Journal of Lightwave Technology</i> , <b>2009</b> , 27, 386-395	4	8
101	Optical wireless data center networks: potentials, limitations, and prospects <b>2019</b> ,		8
100	A Distributed Mechanism for Joint 3D Placement and User Association in UAV-Assisted Networks <b>2019</b> ,		8
99	Design and Provision of Traffic Grooming for Optical Wireless Data Center Networks. <i>IEEE Transactions on Communications</i> , <b>2019</b> , 67, 2245-2259	6.9	8
98	Location-Aware, Context-Driven QoS for IoT Applications. <i>IEEE Systems Journal</i> , <b>2020</b> , 14, 232-243	4.3	8
97	Energy-Efficient Trajectory Optimization for UAV-Assisted IoT Networks. <i>IEEE Transactions on Mobile Computing</i> , <b>2021</b> , 1-1	4.6	8
96	The Optimal and the Greedy: Drone Association and Positioning Schemes for Internet of UAVs. <i>IEEE Internet of Things Journal</i> , <b>2021</b> , 8, 14066-14079	10.7	8

95	Topology Optimization for 6G Networks: A Network Information-Theoretic Approach. <i>IEEE Vehicular Technology Magazine</i> , <b>2020</b> , 15, 83-92	9.9	7
94	FLight: A Fast and Lightweight Elephant-Flow Detection Mechanism <b>2018</b> ,		7
93	Design and provisioning of optical wireless data center networks: A traffic grooming approach <b>2018</b> ,		7
92	WQM <b>2014</b> ,		7
91	Mobile Sensor Networks for Leak and Backflow Detection in Water Distribution Systems <b>2014</b> ,		7
90	A novel implementation of TCP Vegas for optical burst switched networks. <i>Optical Switching and Networking</i> , <b>2010</b> , 7, 115-126	1.6	7
89	<b>2006</b> ,		7
88	Threshold-based TCP Vegas over Optical Burst Switched Networks. <i>Computer Communications and Networks (IC3N), Proceedings of the IEEE International Conference on</i> , <b>2006</b> ,		7
87	Relay Assisted OFDM With Subcarrier Number Modulation in Multi-Hop Cooperative Networks. <i>IEEE Wireless Communications Letters</i> , <b>2020</b> , 9, 1869-1873	5.9	7
86	Dual Attention-Based Federated Learning for Wireless Traffic Prediction <b>2021</b> ,		7
85	SectOR: Sector-Based Opportunistic Routing Protocol for Underwater Optical Wireless Networks <b>2019</b> ,		7
84	An energy efficient cognitive radio system with quantized soft sensing and duration analysis <b>2015</b> ,		6
83	Delay analysis of new-flow setup time in software defined networks <b>2018</b> ,		6
82	<b>2013</b> ,		6
81	Practical and Dynamic Buffer Sizing Using LearnQueue. <i>IEEE Transactions on Mobile Computing</i> , <b>2019</b> , 18, 1885-1897	4.6	6
80	Fair packet scheduling in Wireless Mesh Networks. <i>Ad Hoc Networks</i> , <b>2014</b> , 13, 414-427	4.8	5
79	Optimal Cross-Layer Design for Energy Efficient D2D Sharing Systems. <i>IEEE Transactions on Wireless Communications</i> , <b>2017</b> , 16, 839-855	9.6	5
78	Green smartphone GPUs: Optimizing energy consumption using GPUFreq scaling governors <b>2015</b> ,		5

77	TMAC: Timestamp-Ordered MAC for CSMA/CA Wireless Mesh Networks <b>2011</b> ,		5
76	A novel TCP with dynamic Burst-Contention Loss notification over OBS networks. <i>Computer Networks</i> , <b>2008</b> , 52, 461-471	5.4	5
75	Energy Efficient Monitoring for Intrusion Detection in Battery-Powered Wireless Mesh Networks. <i>Lecture Notes in Computer Science</i> , <b>2011</b> , 44-57	0.9	5
74	. <i>IEEE Transactions on Vehicular Technology</i> , <b>2017</b> , 66, 3071-3087	6.8	4
73	Queuing Delay Model for Video Transmission Over Multi-Channel Underwater Wireless Optical Networks. <i>IEEE Access</i> , <b>2019</b> , 7, 10515-10522	3.5	4
72	Green partial packet recovery in wireless sensor networks. <i>Journal of Network and Computer Applications</i> , <b>2015</b> , 58, 267-279	7.9	4
71	An Efficient Content Delivery System for 5G CRAN Employing Realistic Human Mobility. <i>IEEE Transactions on Mobile Computing</i> , <b>2019</b> , 18, 742-756	4.6	4
70	Deflating link buffers in a wireless mesh network. <i>Ad Hoc Networks</i> , <b>2014</b> , 16, 266-280	4.8	4
69	iFrag: interference-aware frame fragmentation scheme for wireless sensor networks. <i>Wireless Networks</i> , <b>2014</b> , 20, 2019-2036	2.5	4
68	Enhanced cognitive Radio Resource Management for LTE systems <b>2013</b> ,		4
67	Energy efficient scheme for cognitive radios utilizing soft sensing <b>2014</b> ,		4
66	End-to-end delay analysis in wireless sensor networks with service vacation <b>2014</b> ,		4
65	Adaptive Decision-Making Scheme for Cognitive Radio Networks <b>2014</b> ,		4
64	Adaptive multi-objective Optimization scheme for cognitive radio resource management <b>2014</b> ,		4
63	Monitoring burst (M-burst) [A novel framework of failure localization in all-optical mesh networks <b>2011</b> ,		4
62	TCP-ENG: Dynamic Explicit Congestion Notification for TCP over OBS Networks <b>2007</b> ,		4
61	From a Human-Centric Perspective: What Might 6G Be?		4
60	Battling Latency in Modern Wireless Networks. <i>IEEE Access</i> , <b>2018</b> , 6, 26131-26143	3.5	4

59	Opportunistic Routing for Opto-Acoustic Internet of Underwater Things. <i>IEEE Internet of Things Journal</i> , <b>2021</b> , 1-1	10.7	4
58	Enhanced Huffman Coded OFDM With Index Modulation. <i>IEEE Transactions on Wireless Communications</i> , <b>2020</b> , 19, 2489-2503	9.6	3
57	LightFDG: An Integrated Approach to Flow Detection and Grooming in Optical Wireless DCNs. <i>IEEE Transactions on Network and Service Management</i> , <b>2020</b> , 17, 1153-1166	4.8	3
56	Intelligent Edge: An Instantaneous Detection of IoT Traffic Load <b>2018</b> ,		3
55	The efficacy of centralized flow rate control in 802.11-based wireless mesh networks. <i>Eurasip Journal on Wireless Communications and Networking</i> , <b>2013</b> , 2013,	3.2	3
54	TV Broadcast Efficiency in 5G Networks from Subscriber Prospective <b>2015</b> ,		3
53	Green frame aggregation scheme for Wi-Fi networks <b>2015</b> ,		3
52	Energy efficiency and SINR maximization beamformers for cognitive radio utilizing sensing information <b>2014</b> ,		3
51	FAST TCP over optical burst switched networks: Modeling and stability analysis. <i>Optical Switching and Networking</i> , <b>2013</b> , 10, 107-118	1.6	3
50	MAC-Layer Active Dropping for Real-Time Video Streaming in 4G Access Networks. <i>IEEE Systems Journal</i> , <b>2010</b> , 4, 561-572	4.3	3
49	Heterogeneous Traffic Offloading in Space-Air-Ground Integrated Networks. <i>IEEE Access</i> , <b>2021</b> , 9, 165462-165475	3.5	3
48	Enabling Smart Buildings by Indoor Visible Light Communications and Machine Learning		3
47	Towards Optimal Event Detection and Localization in Acyclic Flow Networks. <i>Lecture Notes in Computer Science</i> , <b>2012</b> , 179-196	0.9	3
46	Revolutionizing Optical Wireless Communications via Smart Optics. <i>IEEE Open Journal of the Communications Society</i> , <b>2022</b> , 1-1	6.7	3
45	Parallel Void Thread in Long-Reach Ethernet Passive Optical Networks. <i>Journal of Optical Communications and Networking</i> , <b>2015</b> , 7, 656	4.1	2
44	Cognitive Aware Interference Mitigation Scheme for LTE Femtocells. <i>Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering</i> , <b>2015</b> , 607-619	0.2	2
43	A Practical Approach For Excess Bandwidth Distribution for EPONs <b>2014</b> ,		2
42	Green-Frag: Energy-efficient frame fragmentation scheme for wireless sensor networks <b>2013</b> ,		2

41	Failure mitigation in software defined networking employing load type prediction <b>2017</b> ,		2
40	On the analysis of human mobility model for content broadcasting in 5G networks <b>2017</b> ,		2
39	Buffer management in wireless full-duplex systems <b>2015</b> ,		2
38	Power and delay optimisation in multi-hop wireless networks. <i>International Journal of Control</i> , <b>2014</b> , 87, 1252-1265	1.5	2
37	Event localization in underwater wireless sensor networks using Monitoring Courses <b>2012</b> ,		2
36	MAC-layer protocol for TCP fairness in Wireless Mesh Networks <b>2012</b> ,		2
35	Performance Evaluation of TCP Vegas over Optical Burst Switched Networks <b>2006</b> ,		2
34	A Novel False Congestion Detection Scheme for TCP over OBS Networks <b>2007</b> ,		2
33	Channel Characterization of IRS-based Visible Light Communication Systems. <i>IEEE Transactions on Communications</i> , <b>2022</b> , 1-1	6.9	2
32	On Outage Performance of Terahertz Wireless Communication Systems. <i>IEEE Transactions on Communications</i> , <b>2021</b> , 1-1	6.9	2
31	Hyperloop Communications: Challenges, Advances, and Approaches. <i>IEEE Open Journal of the Communications Society</i> , <b>2021</b> , 2, 2413-2435	6.7	2
30	Energy efficient SDN commodity switch based practical flow forwarding method <b>2016</b> ,		2
29	Power Allocation for Relayed OFDM With Index Modulation Assisted by Artificial Neural Network. <i>IEEE Wireless Communications Letters</i> , <b>2021</b> , 10, 373-377	5.9	2
28	On Telecommunication Service Imbalance and Infrastructure Resource Deployment. <i>IEEE Wireless Communications Letters</i> , <b>2021</b> , 1-1	5.9	2
27	A Power Saving Scheme for IEEE 802.15.3d THz Wireless Communication Links. <i>IEEE Transactions on Mobile Computing</i> , <b>2021</b> , 1-1	4.6	2
26	On the Optimization of Multi-Cell SLIPT Systems <b>2018</b> ,		2
25	Modeling Co-Channel Interference in the THz Band. <i>IEEE Transactions on Vehicular Technology</i> , <b>2021</b> , 70, 6319-6334	6.8	2
24	Analyzing Latency and Dropping in Today's Internet of Multimedia Things <b>2019</b> ,		1



23	Energy-Efficient Fixed-Gain AF Relay Assisted OFDM With Index Modulation. <i>IEEE Wireless Communications Letters</i> , <b>2020</b> , 9, 1509-1513	5.9	1
22	Energy efficient cross layer design for spectrum sharing systems <b>2016</b> ,		1
21	Contention aware mobility prediction routing for intermittently connected mobile networks. <i>Wireless Networks</i> , <b>2013</b> , 19, 2093-2108	2.5	1
20	Decentralized control of transmission rates in energy-critical wireless networks <b>2013</b> ,		1
19	An energy efficient hybrid interference-resilient frame fragmentation for wireless sensor networks <b>2015</b> ,		1
18	Sleep-time sizing and scheduling in green passive optical networks <b>2012</b> ,		1
17	Energy-Aware Underwater Optical System With Combined Solar Cell and SPAD Receiver. <i>IEEE Communications Letters</i> , <b>2022</b> , 26, 59-63	3.8	1
16	Rethinking Blockchain Integration with the Industrial Internet of Things. <i>IEEE Internet of Things Magazine</i> , <b>2020</b> , 3, 70-75	3.5	1
15	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> , <b>2012</b> , 438-453	0.2	1
14	Video Quality Prediction over Wireless 4G. <i>Lecture Notes in Computer Science</i> , <b>2013</b> , 414-425	0.9	1
13	SoftFG: A Dynamic Load Balancer for Soft Reconfiguration of Wireless Data Centers <b>2020</b> ,		1
12	Dropping probability reduction in OBS networks: A simple approach. <i>Optik</i> , <b>2016</b> , 127, 9947-9960	2.5	1
11	. <i>IEEE Transactions on Communications</i> , <b>2021</b> , 69, 5028-5042	6.9	1
10	Viral Aerosol Concentration Characterization and Detection in Bounded Environments. <i>IEEE Transactions on Molecular, Biological, and Multi-Scale Communications</i> , <b>2021</b> , 7, 185-199	2.3	1
9	Efficient Wireless Traffic Prediction at the Edge: A Federated Meta-Learning Approach. <i>IEEE Communications Letters</i> , <b>2022</b> , 1-1	3.8	1
8	Proactive Traffic Offloading in Dynamic Integrated Multi-Satellite Terrestrial Networks. <i>IEEE Transactions on Communications</i> , <b>2022</b> , 1-1	6.9	1
7	Networking research for the Arab world. <i>Communications of the ACM</i> , <b>2021</b> , 64, 114-119	2.5	0
6	Information-Theoretic Analysis of OFDM with Subcarrier Number Modulation. <i>IEEE Transactions on Information Theory</i> , <b>2021</b> , 1-1	2.8	0

5	On the Capacity of Reconfigurable Intelligent Surface Assisted MIMO Symbiotic Communications. <i>IEEE Transactions on Wireless Communications</i> , <b>2021</b> , 1-1	9.6	0
4	A Network Management Viewpoint on Security in E-Services. <i>IFIP Advances in Information and Communication Technology</i> , <b>2003</b> , 17-45	0.5	
3	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> , <b>2010</b> , 67-79	0.2	
2	A memory-oriented MAC-layer design for future IoT systems. <i>Ad Hoc Networks</i> , <b>2020</b> , 108, 102276	4.8	
1	Accelerate Monte Carlo Simulation for Probability Measures by an Interrupt Mechanism. <i>IEEE Communications Letters</i> , <b>2021</b> , 25, 2854-2858	3.8	