

Zunaira Babar

List of Publications by Year in descending order

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48
papers

1,231
citations

393982

19
h-index

360668

35
g-index

48
all docs

48
docs citations

48
times ranked

882
citing authors

#	ARTICLE	IF	CITATIONS
1	The Road From Classical to Quantum Codes: A Hashing Bound Approaching Design Procedure. IEEE Access, 2015, 3, 146-176.	2.6	142
2	Satellite-Based Continuous-Variable Quantum Communications: State-of-the-Art and a Predictive Outlook. IEEE Communications Surveys and Tutorials, 2019, 21, 881-919.	24.8	107
3	Entanglement-Assisted Quantum Turbo Codes. IEEE Transactions on Information Theory, 2014, 60, 1203-1222.	1.5	91
4	Noncoherent Quantum Multiple Symbol Differential Detection for Wireless Systems. IEEE Access, 2015, 3, 569-598.	2.6	74
5	Quantum Search Algorithms for Wireless Communications. IEEE Communications Surveys and Tutorials, 2019, 21, 1209-1242.	24.8	74
6	Fifteen Years of Quantum LDPC Coding and Improved Decoding Strategies. IEEE Access, 2015, 3, 2492-2519.	2.6	61
7	Non-Dominated Quantum Iterative Routing Optimization for Wireless Multihop Networks. IEEE Access, 2015, 3, 1704-1728.	2.6	50
8	The Evolution of Optical OFDM. IEEE Communications Surveys and Tutorials, 2021, 23, 1430-1457.	24.8	48
9	EXIT-Chart-Aided Near-Capacity Quantum Turbo Code Design. IEEE Transactions on Vehicular Technology, 2015, 64, 866-875.	3.9	47
10	Duality of Quantum and Classical Error Correction Codes: Design Principles and Examples. IEEE Communications Surveys and Tutorials, 2019, 21, 970-1010.	24.8	38
11	Iterative Quantum-Assisted Multi-User Detection for Multi-Carrier Interleave Division Multiple Access Systems. IEEE Transactions on Communications, 2015, 63, 3713-3727.	4.9	37
12	Towards the Quantum Internet: Generalised Quantum Network Coding for Large-Scale Quantum Communication Networks. IEEE Access, 2017, 5, 17288-17308.	2.6	34
13	Quantum Error Correction Protects Quantum Search Algorithms Against Decoherence. Scientific Reports, 2016, 6, 38095.	1.6	28
14	Quantum-Assisted Indoor Localization for Uplink mm-Wave and Downlink Visible Light Communication Systems. IEEE Access, 2017, 5, 23327-23351.	2.6	25
15	Polar Codes and Their Quantum-Domain Counterparts. IEEE Communications Surveys and Tutorials, 2020, 22, 123-155.	24.8	25
16	EXIT-Chart Aided Quantum Code Design Improves the Normalised Throughput of Realistic Quantum Devices. IEEE Access, 2016, 4, 10194-10209.	2.6	24
17	Quantum-Aided Multi-User Transmission in Non-Orthogonal Multiple Access Systems. IEEE Access, 2016, 4, 7402-7424.	2.6	24
18	Unary-Coded Dimming Control Improves ON-OFF Keying Visible Light Communication. IEEE Transactions on Communications, 2018, 66, 255-264.	4.9	23

#	ARTICLE	IF	CITATIONS
19	Multi-Class Coded Layered Asymmetrically Clipped Optical OFDM. IEEE Transactions on Communications, 2019, 67, 578-589.	4.9	21
20	Near-Capacity Code Design for Entanglement-Assisted Classical Communication over Quantum Depolarizing Channels. IEEE Transactions on Communications, 2013, 61, 4801-4807.	4.9	19
21	Joint Quantum-Assisted Channel Estimation and Data Detection. IEEE Access, 2016, 4, 7658-7681.	2.6	19
22	Quantum Topological Error Correction Codes: The Classical-to-Quantum Isomorphism Perspective. IEEE Access, 2018, 6, 13729-13757.	2.6	19
23	Unity-Rate Codes Maximize the Normalized Throughput of ONâ€“OFF Keying Visible Light Communication. IEEE Photonics Technology Letters, 2017, 29, 291-294.	1.3	17
24	Network Coding Aided Cooperative Quantum Key Distribution Over Free-Space Optical Channels. IEEE Access, 2017, 5, 12301-12317.	2.6	16
25	Near-Hashing-Bound Multiple-Rate Quantum Turbo Short-Block Codes. IEEE Access, 2019, 7, 52712-52730.	2.6	16
26	A Quantum-Search-Aided Dynamic Programming Framework for Pareto Optimal Routing in Wireless Multihop Networks. IEEE Transactions on Communications, 2018, 66, 3485-3500.	4.9	14
27	Quantum-Assisted Joint Multi-Objective Routing and Load Balancing for Socially-Aware Networks. IEEE Access, 2016, 4, 9993-10028.	2.6	13
28	Construction of Quantum LDPC Codes From Classical Row-Circulant QC-LDPCs. IEEE Communications Letters, 2016, 20, 9-12.	2.5	13
29	Quantum Coding Bounds and a Closed-Form Approximation of the Minimum Distance Versus Quantum Coding Rate. IEEE Access, 2017, 5, 11557-11581.	2.6	13
30	Joint-Alphabet Space Time Shift Keying in mm-Wave Non-Orthogonal Multiple Access. IEEE Access, 2018, 6, 22602-22621.	2.6	11
31	Quantum-Aided Multi-Objective Routing Optimization Using Back-Tracing-Aided Dynamic Programming. IEEE Transactions on Vehicular Technology, 2018, 67, 7856-7860.	3.9	11
32	Near-Capacity Multilayered Code Design for LACO-OFDM-Aided Optical Wireless Systems. IEEE Transactions on Vehicular Technology, 2019, 68, 4051-4054.	3.9	10
33	Quantum Search-Aided Multi-User Detection of IDMA-Assisted Multi-Layered Video Streaming. IEEE Access, 2017, 5, 23233-23255.	2.6	9
34	Quantum Topological Error Correction Codes are Capable of Improving the Performance of Clifford Gates. IEEE Access, 2019, 7, 121501-121529.	2.6	8
35	Serially Concatenated Unity-Rate Codes Improve Quantum Codes Without Coding-Rate Reduction. IEEE Communications Letters, 2016, 20, 1916-1919.	2.5	7
36	Reduced-Complexity Syndrome-Based TCM Decoding. IEEE Communications Letters, 2013, 17, 1220-1223.	2.5	6

#	ARTICLE	IF	CITATIONS
37	Quantum Turbo Decoding for Quantum Channels Exhibiting Memory. IEEE Access, 2018, 6, 12369-12381.	2.6	5
38	Air-to-Ground NOMA Systems for the "Internet-Above-the-Clouds". IEEE Access, 2018, 6, 47442-47460.	2.6	5
39	Signal Characterization and Achievable Transmission Rate of VLC Under Receiver Nonlinearity. IEEE Access, 2019, 7, 137030-137039.	2.6	5
40	Fully-Parallel Quantum Turbo Decoder. IEEE Access, 2016, 4, 6073-6085.	2.6	4
41	Reduced-Complexity Iterative Receiver for Improving the IEEE 802.15.7 Convolutional-Coded Color Shift Keying Mode. IEEE Communications Letters, 2017, 21, 2005-2008.	2.5	4
42	Coherent versus Non-Coherent Quantum-Assisted Solutions in Wireless Systems. IEEE Wireless Communications, 2017, 24, 144-153.	6.6	4
43	High-speed multi-layer coded adaptive LACO-OFDM and its experimental verification. OSA Continuum, 2020, 3, 2614.	1.8	4
44	Network Coded MIMO Aided Cooperative Communications in the Ambulance-and-emergency Area. Procedia Computer Science, 2014, 40, 214-221.	1.2	3
45	EXIT-Chart Aided Code Design for Symbol-Based Entanglement-Assisted Classical Communication over Quantum Channels. , 2014, , .		2
46	Distributed Source-Channel Coding Using Reduced-Complexity Syndrome-Based TCM. IEEE Communications Letters, 2016, 20, 2095-2098.	2.5	1
47	Entanglement-Assisted Classical Communication Over Quantum Channels for Binary Markov Sources. IEEE Transactions on Vehicular Technology, 2018, 67, 3866-3873.	3.9	0
48	Secure Quantum Turbo Coded Superdense Coding Scheme. , 2018, , .		0