

# Abhinav Kumar

## 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.

55  
papers

296  
citations

9  
h-index

14  
g-index

75  
ext. papers

449  
ext. citations

3.6  
avg, IF

4.13  
L-index

#	Paper	IF	Citations
55	Streaming Video QoE Modeling and Prediction: A Long Short-Term Memory Approach. <i>IEEE Transactions on Circuits and Systems for Video Technology</i> , <b>2020</b> , 30, 661-673	6.4	27
54	Energy and Throughput Trade-Offs in Cellular Networks Using Base Station Switching. <i>IEEE Transactions on Mobile Computing</i> , <b>2016</b> , 15, 364-376	4.6	23
53	A Continuous QoE Evaluation Framework for Video Streaming Over HTTP. <i>IEEE Transactions on Circuits and Systems for Video Technology</i> , <b>2018</b> , 28, 3236-3250	6.4	22
52	. <i>IEEE Transactions on Vehicular Technology</i> , <b>2014</b> , 63, 3331-3341	6.8	22
51	<b>2015</b> ,		15
50	Key exchange protocols for secure Device-to-Device (D2D) communication in 5G <b>2016</b> ,		14
49	Embedded Sensors, Communication Technologies, Computing Platforms and Machine Learning for UAVs: A Review. <i>IEEE Sensors Journal</i> , <b>2021</b> , 1-1	4	13
48	Target Classification by mmWave FMCW Radars Using Machine Learning on Range-Angle Images. <i>IEEE Sensors Journal</i> , <b>2021</b> , 21, 19993-20001	4	10
47	Power allocation for uniform illumination with stochastic LED arrays. <i>Optics Express</i> , <b>2017</b> , 25, 8659-8669,3	3.3	9
46	Adaptive User Pairing for NOMA Systems With Imperfect SIC. <i>IEEE Wireless Communications Letters</i> , <b>2021</b> , 10, 1547-1551	5.9	9
45	Resource Allocation for CoMP in Cellular Networks With Base Station Sleeping. <i>IEEE Access</i> , <b>2018</b> , 6, 12630-12633	3.9	9
44	Performance Analysis of Energy Harvesting-Assisted Overlay Cognitive NOMA Systems With Incremental Relaying. <i>IEEE Open Journal of the Communications Society</i> , <b>2021</b> , 2, 1558-1576	6.7	6
43	A Novel Detection Technique for a Chipless RFID System Using Quantile Regression. <i>Electronics (Switzerland)</i> , <b>2018</b> , 7, 409	2.6	6
42	Dynamic Time Division Duplexing for Downlink/Uplink Decoupled Millimeter Wave-Based Cellular Networks. <i>IEEE Communications Letters</i> , <b>2019</b> , 23, 1441-1445	3.8	5
41	Perceptual QoE-Optimal Resource Allocation for Adaptive Video Streaming. <i>IEEE Transactions on Broadcasting</i> , <b>2020</b> , 66, 346-358	4.7	5
40	Optimisation of indoor hybrid PLC/VLC/RF communication systems. <i>IET Communications</i> , <b>2020</b> , 14, 117-126	1.6	5
39	Improved run length limited codes for VLC using dimming control compensation symbols <b>2018</b> ,		5

38	Duopoly price competition of WLAN service providers in presence of heterogeneous user demand <b>2012,</b>		5
37	Downlink Control Channel Scheduling for 3GPP Narrowband-IoT <b>2018,</b>		5
36	Modeling Continuous Video QoE Evolution: A State Space Approach <b>2018,</b>		5
35	Classification of Targets Using Statistical Features from Range FFT of mmWave FMCW Radars. <i>Electronics (Switzerland)</i> , <b>2021</b> , 10, 1965	2.6	5
34	MIMO Codes for Uniform Illumination Across Space and Time in VLC With Dimming Control. <i>IEEE Photonics Journal</i> , <b>2019</b> , 11, 1-21	1.8	4
33	LIDOR: A Lightweight DoS-Resilient Communication Protocol for Safety-Critical IoT Systems. <i>IEEE Internet of Things Journal</i> , <b>2020</b> , 7, 6802-6816	10.7	4
32	A Tunable Energy Signal for Intensity Modulation and Direct Detection Systems: Theory, Simulations, and Experiments. <i>IEEE Photonics Journal</i> , <b>2020</b> , 12, 1-12	1.8	4
31	A novel RACH mechanism for machine type communications in cellular networks <b>2017,</b>		4
30	Novel rate matching scheme for downlink control channel in 3GPP massive machine type communications <b>2018,</b>		4
29	. <i>IEEE Wireless Communications Letters</i> , <b>2021</b> , 10, 609-613	5.9	4
28	Joint Control and Shared Channel Scheduling for Downlink in 3GPP Narrowband-IoT <b>2020,</b>		3
27	Deep Learning-Based Smart Parking Solution using Channel State Information in LTE-Based Cellular Networks <b>2020,</b>		3
26	Base station switching with CoMP in cellular networks <b>2016,</b>		3
25	Performance comparison of dual connectivity with CoMP in heterogeneous cellular networks <b>2017,</b>		3
24	A linear regression framework for assessing time-varying subjective quality in HTTP streaming <b>2017</b> ,		3
23	Energy efficient rate coverage with base station switching and load sharing in cellular networks <b>2016,</b>		3
22	Low PAPR Coding Scheme for Uniform Illumination in MIMO VLC <b>2018,</b>		3
21	Methods for Cellular Network's Operation in Unlicensed mmWave Bands <b>2020,</b>		2

20	A MAC-PHY cross-layer analysis of NB-PLC system in presence of impulsive noise <b>2018</b> ,		2
19	eTVSQ based video rate adaptation in cellular networks with Fair resource allocation <b>2016</b> ,		2
18	Scheduling and Decoding of Downlink Control Channel in 3GPP Narrowband-IoT. <i>IEEE Access</i> , <b>2020</b> , 8, 175612-175624	3.5	2
17	Energy Efficiency in Millimeter Wave based Cellular Networks with DUE and Dynamic TDD <b>2020</b> ,		2
16	Generation of Perfectly DC Balanced Codes for Visible Light Communications <b>2018</b> ,		2
15	A Successive Interference Cancellation Based Random Access Channel Mechanism for Machine-to-Machine Communications in Cellular Internet-of-Things. <i>IEEE Access</i> , <b>2021</b> , 9, 8367-8380	3.5	2
14	Security Analysis of LTE/SAE Networks Under De-synchronization Attack for Hyper-Erlang Distributed Residence Time. <i>IEEE Communications Letters</i> , <b>2017</b> , 21, 1055-1058	3.8	1
13	Resource allocation for energy efficient next generation cellular networks. <i>CSI Transactions on ICT</i> , <b>2017</b> , 5, 179-187	0.4	1
12	WLAN Service Providers' Price Competition with Uncertainty in User Demand. <i>IEEE Communications Letters</i> , <b>2013</b> , 17, 517-520	3.8	1
11	Joint NOMA for Improved SER of Cell-edge Users in Multi-cell Indoor VLC. <i>IEEE Wireless Communications Letters</i> , <b>2021</b> , 1-1	5.9	1
10	Improved Physical Downlink Control Channel for 3GPP Massive Machine Type Communications. <i>Lecture Notes in Computer Science</i> , <b>2019</b> , 1-25	0.9	1
9	Performance Analysis Under Double Sided Clipping and Real Time Implementation of DCO-GFDM in VLC Systems. <i>Journal of Lightwave Technology</i> , <b>2021</b> , 39, 33-41	4	1
8	Closed-form Approximations for Coverage and Rate in a Multi-tier Heterogeneous Network in Nakagami-m Fading <b>2018</b> ,		1
7	LTE-based passive radars and applications: a review. <i>International Journal of Remote Sensing</i> , <b>2021</b> , 42, 7489-7518	3.1	1
6	Preserving Operation Frequency Privacy of Incumbents in CBRS. <i>IEEE Access</i> , <b>2021</b> , 1-1	3.5	0
5	A Survey of Resource Allocation Techniques for Cellular Network Operation in the Unlicensed Band. <i>Electronics (Switzerland)</i> , <b>2020</b> , 9, 1464	2.6	0
4	Design and performance analysis of joint control and shared channel scheduler for downlink in 3GPP narrowband-IoT. <i>Ad Hoc Networks</i> , <b>2021</b> , 114, 102440	4.8	0
3	A Probabilistic Approach to Model SIC Based RACH Mechanism for Machine Type Communications in Cellular Networks. <i>IEEE Transactions on Vehicular Technology</i> , <b>2021</b> , 70, 1878-1893	6.8	0

- 2 Memory-Based Codes for Uniform Illumination in MIMO VLC. *IEEE Photonics Journal*, **2020**, 12, 1-15 1.8
- 1 Wireless local area network service providers' price competition in presence of heterogeneous user demand. *IET Communications*, **2013**, 7, 2113-2121 1.3