

Bingcheng Zhu

List of Publications by Year in descending order

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Version: 2024-02-01

57
papers

549
citations

686830

13
h-index

676716

22
g-index

57
all docs

57
docs citations

57
times ranked

511
citing authors

#	ARTICLE	IF	CITATIONS
1	Capacity Results for Range-Limited SISO and MISO Dimmable VLC Channels. IEEE Transactions on Vehicular Technology, 2022, 71, 4465-4470.	3.9	2
2	Light-controllable time-domain digital coding metasurfaces. Advanced Photonics, 2022, 4, .	6.2	13
3	Approaches to Array-Type Optical IRSs: Schemes and Comparative Analysis. Journal of Lightwave Technology, 2022, 40, 3576-3591.	2.7	7
4	Outage Analysis and Beamwidth Optimization for Positioning-Assisted Beamforming. IEEE Communications Letters, 2022, 26, 1543-1547.	2.5	1
5	A metasurface-based light-to-microwave transmitter for hybrid wireless communications. Light: Science and Applications, 2022, 11, 126.	7.7	47
6	Wireless Optical Positioning With Multiple Photodiodes and LED Clusters. , 2022, , .		4
7	Beacon LED Coordinates Estimator for Easy Deployment of Visible Light Positioning Systems. IEEE Transactions on Wireless Communications, 2022, 21, 10208-10223.	6.1	11
8	Multi-User Successive-Coded Spatial Modulation Scheme Based on Beamforming. IEEE Transactions on Vehicular Technology, 2022, 71, 10485-10498.	3.9	0
9	Performance Analysis of Multi-Branch Reconfigurable Intelligent Surfaces-Assisted Optical Wireless Communication System in Environment With Obstacles. IEEE Transactions on Vehicular Technology, 2021, 70, 9986-10001.	3.9	30
10	Tracking System for Fast Moving Nodes in Optical Mobile Communication and the Design Rules. IEEE Transactions on Wireless Communications, 2021, 20, 2716-2728.	6.1	6
11	Indoor Visible Light Localization Algorithm with the Optimal Optical Angle-of-Arrival Estimator. , 2021, , .		4
12	Performance of Optical Mobile Communications with User Mobility and Multiple Light Sources. Wireless Communications and Mobile Computing, 2021, 2021, 1-14.	0.8	0
13	Joint TOA and DOA Estimation With CFO Compensation Using Large-Scale Array. IEEE Transactions on Signal Processing, 2021, 69, 4204-4218.	3.2	15
14	A Novel Method to Estimate the Coordinates of LEDs in Wireless Optical Positioning Systems. , 2021, , .		0
15	An Improved Optical Positioning System With LED Selection. , 2021, , .		1
16	Asymptotic Analysis of Diversity Receptions Over Correlated Lognormal-Rician Fading Channels. , 2021, , .		0
17	Asymptotic Cumulative Distribution Functions for Correlated Lognormal Channels and Their Applications in Selection Combining. , 2020, , .		0
18	Asymptotic Analysis on Diversity Receptions Over Fading Channels With Correlated Shadowing. IEEE Transactions on Vehicular Technology, 2019, 68, 8275-8278.	3.9	2

#	ARTICLE	IF	CITATIONS
19	Asymptotic Outage Analysis on Dual-Branch Diversity Receptions Over Non-Identically Distributed Correlated Lognormal Channels. IEEE Transactions on Communications, 2019, 67, 7126-7138.	4.9	12
20	Outage Probability Bounds of EGC Over Correlated Lognormal Fading Channels. , 2019, , .		1
21	Outage Probability Bounds of EGC Over Dual-Branch Non-Identically Distributed Independent Lognormal Fading Channels With Optimized Parameters. IEEE Transactions on Vehicular Technology, 2019, 68, 8232-8237.	3.9	8
22	A Model-Driven Deep Learning Method for LED Nonlinearity Mitigation in OFDM-Based Optical Communications. IEEE Access, 2019, 7, 71436-71446.	2.6	24
23	Angle-of-Arrival Estimator for Light Signals Based on Optimized Photodiode Array. , 2019, , .		4
24	Error Analysis on Indoor Localization with Visible Light Communication. Remote Sensing, 2019, 11, 427.	1.8	4
25	Optimal Optical Omnidirectional Angle-of-Arrival Estimator With Complementary Photodiodes. Journal of Lightwave Technology, 2019, 37, 2932-2945.	2.7	23
26	Spatial full-duplex light communication achieved with a monolithic non-suspended multicomponent system. Optics Express, 2019, 27, 3379.	1.7	6
27	A New Asymptotic Analysis Technique for Diversity Receptions Over Correlated Lognormal Fading Channels. IEEE Transactions on Communications, 2018, 66, 845-861.	4.9	26
28	Spatiotemporal summation and correlation mimicked in a four-emitter light-induced artificial synapse. Scientific Reports, 2018, 8, 2159.	1.6	4
29	On the Distribution Function of the Generalized Beckmann Random Variable and Its Applications in Communications. IEEE Transactions on Communications, 2018, 66, 2235-2250.	4.9	12
30	Spatiotemporal Summation of a Triple-Terminal Light-Induced Artificial Synapse. IEEE Journal of the Electron Devices Society, 2018, 6, 376-381.	1.2	1
31	Spatiotemporal Summation and Recognition Effects for a Dual-Emitter Light-Induced Neuromorphic Device. IEEE Transactions on Electron Devices, 2018, 65, 308-313.	1.6	5
32	Three-Dimensional VLC Positioning Based on Angle Difference of Arrival With Arbitrary Tilting Angle of Receiver. IEEE Journal on Selected Areas in Communications, 2018, 36, 8-22.	9.7	83
33	Low-Complexity Path Planning Algorithm for Unmanned Aerial Vehicles in Complicated Scenarios. IEEE Access, 2018, 6, 57049-57055.	2.6	13
34	Asymptotic Outage Probability of Dual-Branch Equal-Gain Combining over Correlated, Non-Identically Distributed Lognormal Fading Channels. , 2018, , .		3
35	Asymptotic Performance of Composite Lognormal-X Fading Channels. IEEE Transactions on Communications, 2018, 66, 6570-6585.	4.9	10
36	Asymptotically Tight Performance Bounds of Diversity Receptions Over α - μ Fading Channels With Arbitrary Correlation. IEEE Transactions on Vehicular Technology, 2017, 66, 7619-7632.	3.9	8

#	ARTICLE	IF	CITATIONS
37	Arbitrarily tight bounds on cumulative distribution function of Beckmann distribution. , 2017, , .		4
38	A new technique for analyzing asymptotic outage performance of diversity over lognormal fading channels. , 2017, , .		3
39	Optimal user node placement for multi-hop FSO broadcasting communications under weak turbulence conditions. , 2017, , .		1
40	Simultaneous Light-Emitting Light-Detecting Functionality of InGaN/GaN Multiple Quantum Well Diodes. IEEE Electron Device Letters, 2017, 38, 1684-1687.	2.2	23
41	Co-Time Co-Frequency Full-Duplex Visible Light On-Chip Communication Using a Pair of InGaN/GaN Quantum-Well Diodes. , 2017, , .		0
42	VLC Positioning Using Cameras with Unknown Tilting Angles. , 2017, , .		11
43	Asymptotic Analysis and Tight Performance Bounds of Diversity Receptions Over Beckmann Fading Channels With Arbitrary Correlation. IEEE Transactions on Communications, 2016, 64, 2220-2234.	4.9	16
44	Free-Space Optical Communications Using onâ€“off Keying and Source Information Transformation. Journal of Lightwave Technology, 2016, 34, 2601-2609.	2.7	24
45	A relay node placement for free space optical communication system under multi-user environments. , 2016, , .		1
46	Mobile device orientation estimation using visible light communication system. , 2016, , .		0
47	Performance of Improved Adaptive Decode-and-Forward over Free-Space Optical Lognormal Fading Channels. , 2016, , .		5
48	Performance Bounds for Diversity Receptions Over Arbitrarily Correlated Nakagami- m Fading Channels. IEEE Transactions on Wireless Communications, 2016, 15, 699-713.	6.1	25
49	Error Rate Bounds for Equal-Gain Combining over Arbitrarily Correlated Rician Channels. , 2015, , .		0
50	Bounds on outage probabilities for diversity receptions over arbitrarily correlated Rician channels. , 2015, , .		3
51	A Distance-Dependent Free-Space Optical Cooperative Communication System. IEEE Communications Letters, 2015, 19, 969-972.	2.5	13
52	Relay Placement for FSO Multihop DF Systems With Link Obstacles and Infeasible Regions. IEEE Transactions on Wireless Communications, 2015, 14, 5240-5250.	6.1	26
53	Optimal FSO relay nodes placement with link obstacles and infeasible regions. , 2014, , .		4
54	Error Rate Bounds for Equal-Gain Combining over Arbitrarily Correlated Rician Channels. , 2014, , .		0

#	ARTICLE	IF	CITATIONS
55	Hybrid modulation for short range polymer optical fiber communications. , 2013, , .		0
56	Frequency drift reduction through alternating magnetic field between coupled resonators in power transfer systems. , 2013, , .		0
57	An AM-compatible hybrid modulation for broadcasting. , 2012, , .		0