

Yuhan Dong

List of Publications by Year in descending order

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106
papers

2,113
citations

567144

15
h-index

434063

31
g-index

106
all docs

106
docs citations

106
times ranked

1369
citing authors

#	ARTICLE	IF	CITATIONS
1	A Survey of Underwater Optical Wireless Communications. IEEE Communications Surveys and Tutorials, 2017, 19, 204-238.	24.8	807
2	Impulse Response Modeling for Underwater Wireless Optical Communication Links. IEEE Transactions on Communications, 2014, 62, 226-234.	4.9	240
3	Effect of Random Sea Surface on Downlink Underwater Wireless Optical Communications. IEEE Communications Letters, 2013, 17, 2164-2167.	2.5	55
4	On Link Misalignment for Underwater Wireless Optical Communications. IEEE Communications Letters, 2012, 16, 1688-1690.	2.5	53
5	A Novel Model-Based Driving Behavior Recognition System Using Motion Sensors. Sensors, 2016, 16, 1746.	2.1	48
6	1.3-THz E-O bandwidth GaN-based micro-LED for multi-gigabit visible light communication. Photonics Research, 2021, 9, 792.	3.4	47
7	General Stochastic Channel Model and Performance Evaluation for Underwater Wireless Optical Links. IEEE Transactions on Wireless Communications, 2016, 15, 1162-1173.	6.1	45
8	Impulse response modeling for general underwater wireless optical MIMO links. , 2016, 54, 56-61.		43
9	A Spectral Reconstruction Algorithm of Miniature Spectrometer Based on Sparse Optimization and Dictionary Learning. Sensors, 2018, 18, 644.	2.1	40
10	20-Gbps/30-m air underwater optical wireless communication based on a single-layer quantum dot blue micro-LED. Optics Letters, 2020, 45, 2616.	1.7	39
11	On Capacity of Downlink Underwater Wireless Optical MIMO Systems With Random Sea Surface. IEEE Communications Letters, 2015, 19, 2166-2169.	2.5	35
12	Towards a 20 Gbps multi-user bubble turbulent NOMA UOWC system with green and blue polarization multiplexing. Optics Express, 2020, 28, 31796.	1.7	34
13	Recommend a profitable cruising route for taxi drivers. , 2014, , .		33
14	Monte-Carlo Integration Models for Multiple Scattering Based Optical Wireless Communication. IEEE Transactions on Communications, 2020, 68, 334-348.	4.9	33
15	Dynamic background estimation and complementary learning for pixel-wise foreground/background segmentation. Pattern Recognition, 2016, 59, 112-125.	5.1	30
16	On impulse response modeling for underwater wireless optical MIMO links. , 2014, , .		27
17	On BER performance of underwater wireless optical MISO links under weak turbulence. , 2016, , .		25
18	Link misalignment for underwater wireless optical communications. , 2015, , .		22

#	ARTICLE	IF	CITATIONS
19	Driver identification in intelligent vehicle systems using machine learning algorithms. IET Intelligent Transport Systems, 2019, 13, 40-47.	1.7	22
20	Full-duplex high-speed indoor optical wireless communication system based on a micro-LED and VCSEL array. Optics Express, 2021, 29, 3891.	1.7	22
21	On stochastic model for underwater wireless optical links. , 2014, , .		20
22	On capacity of underwater optical wireless links under weak oceanic turbulence. , 2016, , .		20
23	An effective routing protocol for energy harvesting wireless sensor networks. , 2013, , .		17
24	Analysis and evaluation of driving behavior recognition based on a 3-axis accelerometer using a random forest approach. , 2017, , .		17
25	Adaptive energy-harvesting aware clustering routing protocol for Wireless Sensor Networks. , 2012, , .		15
26	Vehicle positioning system with multi-hypothesis map matching and robust feedback. IET Intelligent Transport Systems, 2017, 11, 649-658.	1.7	14
27	Clu-RNN: A New RNN Based Approach to Diabetic Blood Glucose Prediction. , 2019, , .		14
28	Temporal statistics of irradiance in moving turbulent ocean. , 2013, , .		13
29	Angle of Arrival Analysis for Underwater Wireless Optical Links. IEEE Communications Letters, 2015, 19, 2162-2165.	2.5	13
30	Driving Behavior Prediction Considering Cognitive Prior and Driving Context. IEEE Transactions on Intelligent Transportation Systems, 2021, 22, 2669-2678.	4.7	13
31	On path loss of NLOS underwater wireless optical communication links. , 2013, , .		12
32	On the Capacity of Buoy-Based MIMO Systems for Underwater Optical Wireless Links with Turbulence. , 2018, , .		10
33	Atmospheric pressure-aware seamless 3-D localization and navigation for mobile Internet devices. Tsinghua Science and Technology, 2012, 17, 172-178.	4.1	9
34	Polarized digital pulse interval modulation for underwater wireless optical communications. , 2016, , .		9
35	On Performance of Multiuser Underwater Wireless Optical Communication Systems. , 2020, , .		9
36	A Wi-Fi/GPS integrated system for urban vehicle positioning. , 2010, , .		8

#	ARTICLE	IF	CITATIONS
37	On capacity of 2-by-2 underwater wireless optical MIMO channels. , 2015, , .		8
38	Artificial Noise Design in Time Domain for Indoor SISO DCO-OFDM VLC Wiretap Systems. Journal of Lightwave Technology, 2021, 39, 6450-6458.	2.7	8
39	Evolutionary Game Based Strategy Selection for Hybrid V2V Communications. IEEE Transactions on Vehicular Technology, 2022, 71, 2128-2133.	3.9	8
40	Optimal placement of charging stations for electric taxis in urban area with profit maximization. , 2016, , .		7
41	An improved model for PM2.5 inference based on support vector machine. , 2016, , .		7
42	Improved joint antenna selection and user scheduling for massive MIMO systems. , 2017, , .		7
43	Improved reverse localization schemes for underwater wireless sensor networks. , 2017, , .		7
44	A novel passenger hotspots searching algorithm for taxis in urban area. , 2017, , .		7
45	Driving Maneuvers Prediction Based on Cognition-driven and Data-driven Method. , 2018, , .		7
46	On received intensity for misaligned underwater wireless optical links. , 2016, , .		6
47	Range-based localization in underwater wireless sensor networks using deep neural network. , 2017, , .		6
48	A novel time synchronization algorithm for underwater wireless sensor networks with mobility prediction. , 2017, , .		6
49	On Performance of Underwater Wireless Optical Communications Under Turbulence. , 2020, , .		6
50	Fluorescent concentrator based MISO-NOMA for visible light communications. Optics Letters, 2022, 47, 902.	1.7	6
51	Route guidance systems based on real-time information. , 2013, , .		5
52	An asynchronous cluster head rotation scheme for wireless sensor networks. , 2015, , .		5
53	A genetic antenna selection algorithm for massive MIMO systems with channel estimation error. , 2015, , .		5
54	Spatial channel model for underwater wireless optical communication links. , 2016, , .		5

#	ARTICLE	IF	CITATIONS
55	On impulse response of underwater optical wireless MISO links with a UCA of sources. , 2016, , .		5
56	A Novel RNN-Based Blood Glucose Prediction Approach Using Population and Individual Characteristics. , 2019, , .		5
57	Misalignment Analysis of a High-Speed Uplink OWC System Based on a 940-nm VCSEL. IEEE Photonics Technology Letters, 2021, 33, 1022-1025.	1.3	5
58	The Impact of Mutual Coupling on MIMO Maximum-Ratio Combining. , 2007, , .		4
59	On the capacity of underwater wireless optical channels. , 2013, , .		4
60	Background Subtraction with Dynamic Noise Sampling and Complementary Learning. , 2014, , .		4
61	An Importance Sampling Method for Monte-Carlo Integration Model for Ultraviolet Communication. , 2019, , .		4
62	Large-Coverage White-Light Controller Combining Adaptive QoS-Enhanced Mqam-NOMA for High-Speed Visible Light Communication. Journal of Lightwave Technology, 2022, 40, 415-422.	2.7	4
63	Effects of Mutual Coupling and Noise Correlation on Downlink Coordinated Beamforming with Limited Feedback. Eurasip Journal on Advances in Signal Processing, 2009, 2009, .	1.0	3
64	On impulse response for underwater wireless optical links. , 2013, , .		3
65	Effects of Energy Harvesting Rate on Lifetime and Throughput Capacity in Wireless Sensor Networks. Advanced Materials Research, 2014, 981, 482-485.	0.3	3
66	A High-Speed Visible Light Communication System Using Pairs of Micro-Size LEDs. IEEE Photonics Technology Letters, 2021, 33, 1026-1029.	1.3	3
67	A Uniform Spatial Channel Model for Underwater Wireless Optical Communication Links. , 2020, , .		3
68	Optical Uplink, D2D and IoT Links Based on VCSEL Array: Analysis and Demonstration. Journal of Lightwave Technology, 2022, 40, 5083-5096.	2.7	3
69	Asynchronous track fusion in a multi-scale sensor environment. , 0, , .		2
70	Single scattering impulse response modeling of underwater wireless optical channels. , 2016, , .		2
71	A Real-Time Algorithm for Sleep Apnea and Hypopnea Detection. , 2019, , .		2
72	Model-based Optimization of Pod Point Matching Decision in Robotic Mobile Fulfillment System. , 2020, , .		2

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73	On BER of Fixed-Scale MIMO Underwater Wireless Optical Communication Systems. , 2020, , .		2
74	Achieving Fairness without Loss of Performance in Selection Cooperation of Wireless Networks. IEICE Transactions on Communications, 2011, E94-B, 2406-2410.	0.4	2
75	High-speed Long-distance Optical Wireless Communication Based on a 940-nm VCSEL with 4.46-Gbps QAM-OFDM. , 2020, , .		2
76	Gbps Spatial Diversity Visible Light Communication System Using a Pair 75- μ m Micro-LED. , 2020, , .		2
77	Polarized OFDM for wireless optical communications. , 2013, , .		1
78	Frequency tracking synchronization algorithm for high latency wireless sensor networks. , 2013, , .		1
79	Polarized pulse position modulation for wireless optical communications. , 2013, , .		1
80	Energy-Efficient Target Coverage Algorithm for Wireless Sensor Networks. , 2013, , .		1
81	Adaptive power allocation for wireless cooperative communications. , 2013, , .		1
82	Adaptive route guidance based on real-time information in stochastic time-dependent transportation networks. , 2014, , .		1
83	Understanding the mobility pattern of passenger-searching taxis. , 2014, , .		1
84	Map-matching based on driver behavior model and massive trajectories. , 2014, , .		1
85	Ameliorated joint synchronization and localization for 3D underwater sensor networks. , 2014, , .		1
86	A spatial-temporal model to improve PM2.5 inference. , 2017, , .		1
87	Kalman filter based nonlinear estimators of glucose and insulin concentrations. , 2017, , .		1
88	Landmark Assisted Stereo Visual Odometry. , 2019, , .		1
89	Two Relay-Stage Selection Cooperation in Wireless Networks and Why More than Two Is Not Necessary. IEICE Transactions on Communications, 2010, E93-B, 3332-3344.	0.4	1
90	Improving Fairness without Outage Performance Deterioration in Selection Cooperation. IEICE Transactions on Communications, 2013, E96.B, 664-667.	0.4	1

#	ARTICLE	IF	CITATIONS
91	On BER performance for misaligned underwater wireless MISO laser links. , 2021, , .		1
92	Mutual Coupling Effects in MIMO MRC Systems with Limited Feedback. , 2008, , .		0
93	Receiver design for underwater wireless optical communication link based on APD. , 2012, , .		0
94	Fairness study on two-hop selection cooperation in wireless network. , 2012, , .		0
95	Throughput maximization transmission scheme for virtual MIMO in clustered wireless sensor networks. , 2013, , .		0
96	A novel sub-domain cooperative scheme in random relay selection wireless networks. , 2013, , .		0
97	Angle of arrival modeling for underwater wireless optical communication systems. , 2016, , .		0
98	Polarized Complex Modulation for Underwater Wireless Optical Communications. , 2019, , .		0
99	Error Analysis of the Impulse Response on VCSEL-based Optical Wireless Communication Channel Using a Monte Carlo Ray-Tracing Algorithm. , 2019, , .		0
100	State of Charge Estimation for Li-ion Batteries based on double Extended Kalman Filtering Method. , 0, , .		0
101	Analysis of Stochastic Time-dependent Transportation Network. DEStech Transactions on Engineering and Technology Research, 2016, , .	0.0	0
102	Performance of fixed-scale MIMO UOWC systems using OOK and spatial multiplexing under misalignment effect. , 2021, , .		0
103	Angle of arrival of underwater wireless optical communications. , 2021, , .		0
104	An InGaN-based Quantum Dot Blue Micro-LED for High-speed Two-user QAM-NOMA Visible Light Communication. , 2021, , .		0
105	Joint Probabilistic Shaping and Beamforming Scheme for MISO VLC Systems. IEEE Wireless Communications Letters, 2022, 11, 508-512.	3.2	0
106	Outage Capacity Optimization for Underwater Wireless Optical Links With Pointing Errors. , 2021, , .		0