Rui Deng

List of Publications by Year
in descending order

65 papers	891 citations	471509 17 h-index	552781 26 g-index
65 all docs	65 docs citations	65 times ranked	942 citing authors

#	ARTICLE	IF	CITATIONS
1	Immobilized laccase on bentonite-derived mesoporous materials for removal of tetracycline. Chemosphere, 2019, 222, 865-871.	8.2	121
2	Electrostatic tuning of Kondo effect in a rare-earth-doped wide-band-gap oxide. Physical Review B, 2013, 87, .	3.2	49
3	47-kbit/s RGB-LED-based optical camera communication based on 2D-CNN and XOR-based data loss compensation. Optics Express, 2019, 27, 33840.	3.4	40
4	Real-Time 2.2-Gb/s Water-Air OFDM-OWC System With Low-Complexity Transmitter-Side DSP. Journal of Lightwave Technology, 2020, 38, 5668-5675.	4.6	35
5	Kinetic study of marine and lacustrine shale grains using Rock-Eval pyrolysis: Implications to hydrocarbon generation, retention and expulsion. Marine and Petroleum Geology, 2018, 89, 164-173.	3.3	34
6	Contribution of Auditory Working Memory to Speech Understanding in Mandarin-Speaking Cochlear Implant Users. PLoS ONE, 2014, 9, e99096.	2.5	30
7	Flexible Multiband OFDM Ultra-Wideband Services Based on Optical Frequency Combs. Journal of Optical Communications and Networking, 2017, 9, 393.	4.8	29
8	Nonlinear Compensation Based on K-Means Clustering Algorithm for Nyquist PAM-4 VLC System. IEEE Photonics Technology Letters, 2019, 31, 935-938.	2.5	28
9	Haemin pre€treatment augments the cardiac protection of mesenchymal stem cells by inhibiting mitochondrial fission and improving survival. Journal of Cellular and Molecular Medicine, 2020, 24, 431-440.	3.6	27
10	Demonstration of Real-Time Software Reconfigurable Dynamic Power-and-Subcarrier Allocation Scheme for OFDM-NOMA-Based Multi-User Visible Light Communications. Journal of Lightwave Technology, 2019, 37, 4401-4409.	4.6	26
11	Etiologic Diagnosis of Lower Respiratory Tract Bacterial Infections Using Sputum Samples and Quantitative Loop-Mediated Isothermal Amplification. PLoS ONE, 2012, 7, e38743.	2.5	24
12	WDM€CAP€PON integration with VLLC system based on optical frequency comb. Optics Communications, 2016, 374, 127-132.	2.1	22
13	Downregulation of RIG-I mediated by ITGB3/c-SRC/STAT3 signaling confers resistance to interferon-Î±-induced apoptosis in tumor-repopulating cells of melanoma. , 2020, 8, e000111.		22
14	SFO compensation by pilot-aided channel estimation for real-time DDO-OFDM system. Optics Communications, 2015, 355, 172-176.	2.1	21
15	Twin-SSB-OFDM Transmission Over Heterodyne W-Band Fiber-Wireless System With Real-Time Implementable Blind Carrier Recovery. Journal of Lightwave Technology, 2018, 36, 5562-5572.	4.6	21
16	W-Band Vector Signal Generation by Photonic Frequency Quadrupling and Balanced Pre-Coding. IEEE Photonics Technology Letters, 2016, 28, 1807-1810.	2.5	20
17	An approach enabling adaptive FEC for OFDM in fiber-VLLC system. Optics Communications, 2017, 405, 329-333.	2.1	20
18	OLT-centralized sampling frequency offset compensation scheme for OFDM-PON. Optics Express, 2017, 25, 19508.	3.4	19

#	Article	IF	Citations
19	Experimental Demonstration of a Real-Time gigabit OFDM-VLC system with a cost-efficient precoding scheme. Optics Communications, 2018, 423, 69-73.	2.1	18
20	Experimental Demonstration of Software-Configurable Asynchronous Real-Time OFDM Signal Transmission in a Hybrid Fiber-VLLC System. IEEE Photonics Journal, 2017, 9, 1-8.	2.0	17
21	Real-Time LR-DDO-OFDM Transmission System Using EML With 1024-Point FFT. IEEE Photonics Technology Letters, 2015, 27, 1841-1844.	2.5	15
22	MnTE-2-PyP Attenuates TGF-β-Induced Epithelial-Mesenchymal Transition of Colorectal Cancer Cells by Inhibiting the Smad2/3 Signaling Pathway. Oxidative Medicine and Cellular Longevity, 2019, 2019, 1-11.	4.0	14
23	Real-Time VLLC-OFDM HD-SDI Video transmission system with TS-based SFO estimation. , 2017, , .		14
24	Experimental Demonstration of OQAM-OFDM based MIMO-NOMA over Visible Light Communications. , 2018, , .		14
25	Efficient Sampling Scheme Based on Length Estimation for Optical Camera Communication. IEEE Photonics Technology Letters, 2019, 31, 841-844.	2.5	12
26	Experimental Research on Adaptive 128/64QAM DFT-Spread IFFT/FFT Size Efficient OFDM With a High SE in VLLC System. IEEE Photonics Journal, 2017, 9, 1-8.	2.0	11
27	238 Kbits/frame WDM transmission over a CVLC system with sampling reconstruction for SFO mitigation. Optics Express, 2017, 25, 30575.	3.4	11
28	Two-level encryption for physical-layer security in OFDM-PON based on multi-scrolls system. Optics Communications, 2019, 440, 126-131.	2.1	11
29	Increasing data rate of an optical IMDD system using a cost-efficient dual-band transmission scheme based on RTZ DAC and sub-Nyquist sampling ADC. Optics Express, 2018, 26, 11599.	3.4	10
30	Beyond 100-kbit/s Transmission over Rolling Shutter Camera-based VLC Enabled by Color and Spatial Multiplexing. , 2020, , .		10
31	Enhanced Performance of CAP System Using an Overlap Frequency-Domain Equalization Scheme. IEEE Photonics Journal, 2016, 8, 1-8.	2.0	9
32	Low-cost bidirectional hybrid fiber-visible laser light communication system based on carrier-less amplitude phase modulation. Optical Engineering, 2016, 55, 086109.	1.0	9
33	FFT-Size Efficient 4096-QAM OFDM for Low-Cost DML-Based IMDD System. IEEE Photonics Journal, 2016, 8, 1-10.	2.0	8
34	Experimental research of adaptive OFDM and OCT precoding with a high SE for VLLC system. Optical Fiber Technology, 2017, 37, 21-25.	2.7	8
35	A phosphofructokinase B-type carbohydrate kinase family protein, PFKB1, is essential for chloroplast development at early seedling stage in rice. Plant Science, 2020, 290, 110295.	3.6	8
36	Adaptive modulation and intra-symbol frequency-domain averaging scheme for multiband OFDM UWB over fiber system. Optics Communications, 2016, 358, 45-53.	2.1	7

#	Article	IF	Citations
37	Enhancement of Signal Performance in bidirectional RSE-based CVLC system employing NPM modulation scheme. Optics Communications, 2019, 432, 97-100.	2.1	7
38	The Research of Optical Fast OFDM Based on Channel Estimation Algorithm. IEEE Photonics Journal, 2016, 8, 1-5.	2.0	6
39	Demonstration of 2.97-Gb/s video signal transmissions in DML-based IM-DDO-OFDM systems. Optical Fiber Technology, 2016, 29, 90-94.	2.7	6
40	Experimental demonstration of 20-Gb/s dual-band Nyquist PAM-4 transmission over a short-reach IMDD system using super-Nyquist sampling technique. Optics Letters, 2018, 43, 2640.	3.3	6
41	Molecular insights into the promiscuous interaction of human pregnane X receptor (hPXR) with diverse environmental chemicals and drug compounds. Chemosphere, 2014, 96, 138-145.	8.2	5
42	Fluid Phase Simulation and Evolution of a Condensate Gas Reservoir in the Tazhong Uplift, Tarim Basin. Geofluids, 2019, 2019, 1-15.	0.7	5
43	Performance enhancement of OFDM-VLC system using joint preprocessing scheme. Optics Communications, 2019, 451, 111-115.	2.1	5
44	Real-Time Software-Reconfigurable Hybrid In-House Access With OFDM-NOMA. IEEE Photonics Technology Letters, 2020, 32, 379-382.	2.5	5
45	Robust UOWC systems against bubble-induced impairments via transmit/receive diversities [Invited]. Chinese Optics Letters, 2019, 17, 100006.	2.9	5
46	160 Gb/s 256QAM Transmission in a 25 GHz Grid Using Kramers-Kronig Detection. , 2019, , .		5
47	MPR-CT Imaging for Stapes Prosthesis. Otology and Neurotology, 2016, 37, 321-323.	1.3	4
48	Real-time Demonstration of Software Reconfigurable Dynamic Power-and-subcarrier Allocation Scheme for OFDM-NOMA based Multi-user Visible Light Communications. , 2019, , .		4
49	Inhibitory effect of 2-mercaptoethane sulfonate on the formation of Escherichia coli biofilms in vitro. Molecular Medicine Reports, 2015, 12, 5223-5230.	2.4	3
50	Performance improvement by orthogonal pulse amplitude modulation and discrete multitone modulation signals in hybrid fiber-visible laser light communication system. Optical Engineering, 2016, 55, 106106.	1.0	3
51	Spaced color shift keying modulation for camera-based visible light communication system using rolling shutter effect. Optics Communications, 2019, 449, 19-23.	2.1	3
52	Performance Enhancement by Spatial Diversity for Robust VLC systems with Fast-moving Terminals. , 2019, , .		3
53	On the Hardware Complexity of Kramers-Kronig Receiver. , 2018, , .		3
54	Experimental demonstration of blind equalization for OFDM/OQAM-VLC system. Optical Engineering, 2019, 58, 1.	1.0	3

#	Article	IF	Citations
55	A serial IFFT precoding scheme to mitigate the periodic noise in OFDM system. IEEE Communications Letters, 2016, , 1-1.	4.1	2
56	DFT-spread combined with clipping method to reduce the PAPR in VLC-OFDM system. Optoelectronics Letters, 2017, 13, 229-232.	0.8	2
57	DFT-Spread Combined with Clipping Method to Reduce the PAPR in VLC-OFDM System. , 2017, , .		2
58	Experimental demonstration of an adaptive SFO pre-compensation scheme for OFDM-PON. Optics Communications, 2019, 440, 26-31.	2.1	2
59	2D-Constellation-Assisted CSK transmission over OCC system under low-level illuminance. , 2019, , .		2
60	Performance Analysis of Visible Light Communication Based on 16-QAM Companded OFDM Using Laser Diode. Journal of Optical Communications, 2020, 41, 153-158.	4.7	2
61	Time domain zero-padding based adaptive-PAM signal transmission with high spectral efficiency in IMDD optical communication system. Optics Communications, 2016, 372, 126-131.	2.1	1
62	A DCT-spread FOFDM signal with low PAPR in W-band RoF system. , 2017, , .		1
63	A Simple Blind Sampling Frequency Offset Estimation Scheme for Short-Reach DD-OFDM Systems. IEEE Photonics Journal, 2020, 12, 1-10.	2.0	1
64	Performance improvement of ACO-OFDM system using OCT precoding combined with digital peak-clipping. , 2018, , .		1
65	Performance investigation of the FFT/IFFT size efficient DFT-Spread-OFDM signals in hybrid Fiber-VLLC systems. , 2016, , .		0