Dobroslav Tsonev

List of Publications by Year in descending order

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36 papers	3,206 citations	758635 12 h-index	1058022 14 g-index
36 all docs	36 docs citations	36 times ranked	2315 citing authors

#	Article	IF	Citations
1	A 3-Gb/s Single-LED OFDM-Based Wireless VLC Link Using a Gallium Nitride $mu{m LED}$. IEEE Photonics Technology Letters, 2014, 26, 637-640.	1.3	722
2	Towards a 100 Gb/s visible light wireless access network. Optics Express, 2015, 23, 1627.	1.7	356
3	VLC: Beyond point-to-point communication. , 2014, 52, 98-105.		266
4	Enhanced subcarrier index modulation (SIM) OFDM. , 2011, , .		192
5	LED Based Wavelength Division Multiplexed 10 Gb/s Visible Light Communications. Journal of Lightwave Technology, 2016, 34, 3047-3052.	2.7	187
6	Novel Unipolar Orthogonal Frequency Division Multiplexing (U-OFDM) for Optical Wireless. , 2012, , .		180
7	On the Design of a Solar-Panel Receiver for Optical Wireless Communications With Simultaneous Energy Harvesting. IEEE Journal on Selected Areas in Communications, 2015, 33, 1612-1623.	9.7	171
8	Complete Modeling of Nonlinear Distortion in OFDM-Based Optical Wireless Communication. Journal of Lightwave Technology, 2013, 31, 3064-3076.	2.7	138
9	Unlocking Spectral Efficiency in Intensity Modulation and Direct Detection Systems. IEEE Journal on Selected Areas in Communications, 2015, 33, 1758-1770.	9.7	134
10	Visible Light Communication Using a Blue GaN $mu $ LED and Fluorescent Polymer Color Converter. IEEE Photonics Technology Letters, 2014, 26, 2035-2038.	1.3	109
11	High-Speed Integrated Visible Light Communication System: Device Constraints and Design Considerations. IEEE Journal on Selected Areas in Communications, 2015, 33, 1750-1757.	9.7	106
12	Light fidelity (Li-Fi): towards all-optical networking. Proceedings of SPIE, 2013, , .	0.8	94
13	Fractional Frequency Reuse in DCO-OFDM-Based Optical Attocell Networks. Journal of Lightwave Technology, 2015, 33, 3986-4000.	2.7	77
14	Organic solar cells as high-speed data detectors for visible light communication. Optica, 2015, 2, 607.	4.8	72
15	Avoiding spectral efficiency loss in unipolar OFDM for optical wireless communication. , 2014, , .		68
16	On the superposition modulation for OFDM-based optical wireless communication. , 2015, , .		42
17	A Multigigabit per Second Integrated Multiple-Input Multiple-Output VLC Demonstrator. Journal of Lightwave Technology, 2017, 35, 4358-4365.	2.7	40
18	Analysis of downlink transmission in DCO-OFDM-based optical attocell networks. , 2014, , .		35

#	Article	IF	Citations
19	Visible light communication using laser diode based remote phosphor technique. , 2015, , .		30
20	Practical MIMO Capacity for Indoor Optical Wireless Communication with White LEDs. , 2013, , .		21
21	An energy efficient high-speed digital LED driver for visible light communications. , 2015, , .		18
22	Demonstration of 2.3 Gb/s RGB white-light VLC using polymer based colour-converters and GaN micro-LEDs. , 2015, , .		17
23	Spectrally enhanced PAM-DMT for IM/DD optical wireless communications. , 2015, , .		16
24	A comparison between DCO-OFDMA and synchronous one-dimensional OCDMA for optical wireless communications. , 2013, , .		15
25	A generalized solution to the spectral efficiency loss in unipolar optical OFDM-based systems. , 2015, , .		15
26	Imaging-MIMO visible light communication system using μLEDs and integrated receiver. , 2014, , .		14
27	Experimental proof-of-concept of optical spatial modulation OFDM using micro LEDs. , 2015, , .		13
28	Demonstration of a Bi-directional visible light communication with an overall sum-rate of 110 Mb/s using LEDs as emitter and detector. , 2014, , .		12
29	SecVLC. , 2016, , .		10
30	Optical spatial modulation OFDM using micro LEDs. , 2014, , .		7
31	Gb/s single-LED OFDM-based VLC using violet and UV Gallium nitride μLEDs. , 2015, , .		6
32	OFDM-Based Visible Light Communications. Signals and Communication Technology, 2016, , 255-298.	0.4	6
33	Pulse shaping in unipolar OFDM-based modulation schemes. , 2012, , .		5
34	A novel double-source cell configuration for indoor optical attocell networks. , 2014, , .		5
35	Integrated multiple-input multiple-output visible light communications systems: recent progress and results. Proceedings of SPIE, 2015, , .	0.8	4
36	Multi-Gigabit integrated MIMO visible light communication system: Progress and updates. , 2015, , .		3