Volker Jungnickel

List of Publications by Year
in descending order

53	3,061	516710 16	526287 27
papers	citations	h-index	g-index

53	53	53	3169
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Coordinated multipoint: Concepts, performance, and field trial results. IEEE Communications Magazine, 2011, 49, 102-111.	6.1	1,133
2	The role of small cells, coordinated multipoint, and massive MIMO in 5G. IEEE Communications Magazine, 2014, 52, 44-51.	6.1	600
3	High-speed visible light communication systems. , 2013, 51, 60-66.		371
4	Fronthaul evolution: From CPRI to Ethernet. Optical Fiber Technology, 2015, 26, 50-58.	2.7	178
5	Design and Analysis of a Visible-Light-Communication Enhanced WiFi System. Journal of Optical Communications and Networking, 2015, 7, 960.	4.8	111
6	Capacity Measurements in a Cooperative MIMO Network. IEEE Transactions on Vehicular Technology, 2009, 58, 2392-2405.	6.3	76
7	Optical Wireless MIMO Experiments in an Industrial Environment. IEEE Journal on Selected Areas in Communications, 2018, 36, 185-193.	14.0	68
8	Robust Optical Wireless Link for the Backhaul and Fronthaul of Small Radio Cells. Journal of Lightwave Technology, 2016, 34, 1523-1532.	4.6	44
9	Capacity Scaling of Multi-User MIMO with Limited Feedback in a Multi-Cell Environment. Conference Record of the Asilomar Conference on Signals, Systems and Computers, 2007, , .	0.0	42
10	Real-Time Optical Wireless Mobile Communication With High Physical Layer Reliability. Journal of Lightwave Technology, 2019, 37, 1638-1646.	4.6	29
11	Distributed MIMO for Li-Fi: Channel Measurements, Ray Tracing and Throughput Analysis. IEEE Photonics Technology Letters, 2021, 33, 916-919.	2.5	28
12	High-Speed DMT and VCSEL-Based MMF Transmission Using Pre-Distortion. Journal of Lightwave Technology, 2018, 36, 168-174.	4.6	24
13	Distributed Multiuser MIMO for LiFi in Industrial Wireless Applications. Journal of Lightwave Technology, 2021, 39, 3420-3433.	4.6	24
14	Channel Modelling for Light Communications: Validation of Ray Tracing by Measurements. , 2020, , .		23
15	LiFi Positioning for Industry 4.0. IEEE Journal of Selected Topics in Quantum Electronics, 2021, 27, 1-15.	2.9	23
16	Experiments in Non-Line-of-Sight Li-Fi Channels. , 2019, , .		19
17	Spatial Transmission Mode Switching in Multiuser MIMO-OFDM Systems With User Fairness. IEEE Transactions on Vehicular Technology, 2010, 59, 235-247.	6.3	17
18	Channel measurement campaigns for wireless industrial automation. Automatisierungstechnik, 2019, 67, 7-28.	0.8	17

#	Article	IF	Citations
19	LiFi for Industrial Wireless Applications. , 2020, , .		17
20	A Converged Evolved Ethernet Fronthaul for the 5G Era. IEEE Journal on Selected Areas in Communications, 2018, 36, 2528-2537.	14.0	16
21	The benefit of frequency-selective rate adaptation for optical wireless communications. , 2016, , .		15
22	Use of Plastic Optical Fibers for Distributed MIMO in Li-Fi Systems. , 2019, , .		13
23	A Physical Layer for Low Power Optical Wireless Communications. IEEE Transactions on Green Communications and Networking, 2021, 5, 4-17.	5.5	13
24	SPC08-3: Practical Channel Interpolation for OFDMA. IEEE Global Telecommunications Conference (GLOBECOM), 2006, , .	0.0	12
25	Leverage LiFi in Smart Manufacturing. , 2020, , .		12
26	A Flexible, Ethernet Fronthaul for 5th Generation Mobile and Beyond. , 2016, , .		11
27	Multiple CFOs in OFDM-SDMA Uplink: Interference Analysis and Compensation. Eurasip Journal on Wireless Communications and Networking, 2009, 2009, .	2.4	8
28	Real-Time Optical Wireless Communication: Field-Trial in an Industrial Production Environment. , 2018, , .		8
29	Performance of Bandwidth Extension Techniques for High-Speed Short-Range IM/DD Links. Journal of Lightwave Technology, 2019, 37, 665-672.	4.6	8
30	Distributed MIMO Experiment Using LiFi Over Plastic Optical Fiber. , 2020, , .		8
31	Low-latency synchronization for OFDM-based visible light communication. , 2015, , .		7
32	Outdoor Measurements Using an Optical Wireless Link for Fixed-Access Applications. Journal of Lightwave Technology, 2019, 37, 634-642.	4.6	7
33	Distributed MIMO Experiments for LiFi in a Conference Room. , 2020, , .		7
34	Cooperative Cellular Networks: Overcoming the Effects of Real-World Impairments. IEEE Vehicular Technology Magazine, 2015, 10, 30-40.	3.4	6
35	Analog vs. next-generation digital fronthaul: How to minimize optical bandwidth utilization. , 2017, , .		6
36	Pulsed Modulation PHY for Power Efficient Optical Wireless Communication. , 2019, , .		6

#	Article	IF	Citations
37	Distributed Multiuser MIMO for LiFi: Experiments in an Operating Room. Journal of Lightwave Technology, 2021, 39, 5730-5743.	4.6	6
38	Channel Measurements and Ray Tracing Simulations for MIMO Light Communication at 200 MHz. , 2020, , .		6
39	Analysis of Synchronization Impairments for Cooperative Base Stations Using OFDM. International Journal of Antennas and Propagation, 2015, 2015, 1-14.	1.2	5
40	Analog antenna diversity for reliable optical wireless communication systems. , 2018, , .		5
41	Design of a secure software-defined access network for flexible Industry 4.0 manufacturing - The SESAM-project concept. , 2019, , .		4
42	A Full-Digital M-CAP Receiver With Synchronisation and Adaptive Blind Equalisation for Visible Light Communications. Journal of Lightwave Technology, 2022, 40, 2409-2426.	4.6	4
43	Techno-Economics of LiFi in IoT Applications. , 2022, , .		4
44	Demonstration of Optical Wireless Communications Using the Pulsed Modulation PHY in IEEE 802.15.13. , 2020, , .		3
45	Efficient Line Coding for Low-Power Optical Wireless Communications. , 2021, , .		3
46	Testbed Verification of New Fronthaul Technology for 5G Systems. , 2019, , .		2
47	All-Indoor Optical Customer Premises Equipment for Fixed Wireless Access. , 2021, , .		2
48	Advanced Physical Layer Design for Li-Fi in the Industrial Internet of Things. , 2019, , .		2
49	An Efficient Multi-Link Channel Model for LiFi. , 2021, , .		2
50	LIDAR-Assisted Channel Modelling for LiFi. , 2022, , .		2
51	LiFi with 5G for the Smart Factory. , 2022, , .		2
52	Downlink performance limitations of cellular systems with coordinated base stations and mismatched precoder. IET Communications, 2014, 8, 77-82.	2.2	1
53	LIDAR-Assisted Channel Modelling for LiFi in Realistic Indoor Scenarios. IEEE Access, 2022, 10, 59383-59399.	4.2	1