Harald Haas

List of Publications by Year in Descending Order

269 papers	15,166 citations	53 h-index	118 g-index
295 ext. papers	19,521 ext. citations	6.8 avg, IF	7.32 L-index

#	Paper	IF	Citations
269	10 Gbps wavelength division multiplexing using UV-A, UV-B, and UV-C micro-LEDs. *Photonics Research*, **2022**, 10, 516	6	4
268	Channel Modelling and Error Performance Investigation for Reading Lights Based In-flight LiFi. *IEEE Transactions on Vehicular Technology*, **2022**, 1-1	6.8	1
267	A Tb/s Indoor MIMO Optical Wireless Backhaul System Using VCSEL Arrays. *IEEE Transactions on Communications*, **2022**, 1-1	6.9	0
266	A Novel 3D Non-Stationary Channel Model for 6G Indoor Visible Light Communication Systems. *IEEE Transactions on Wireless Communications*, **2022**, 1-1	9.6	5
265	WDM Based 10.8 Gbps Visible Light Communication with Probabilistic Shaping. *Journal of Lightwave Technology*, **2022**, 1-1	4	0
264	Digital RIS (DRIS): The Future of Digital Beam Management in RIS-Assisted OWC Systems. *Journal of Lightwave Technology*, **2022**, 1-1	4	2
263	Pervasive Wireless Channel Modeling Theory and Applications to 6G GBSMs for All Frequency Bands and All Scenarios. *IEEE Transactions on Vehicular Technology*, **2022**, 1-1	6.8	5
262	4 Gbps wireless optical communications up to 5 m using a UV-C micro-light-emitting diode array **2021**,		2
261	26 Gbit/s LiFi system with laser-based white light transmitter. *Journal of Lightwave Technology*, **2021**, 1-1	4	4
260	LiFi Through Reconfigurable Intelligent Surfaces: A New Frontier for 6G?. *IEEE Vehicular Technology Magazine*, **2021**, 2-11	9.9	11
259	A VCSEL Array Transmission System with Novel Beam Activation Mechanisms. *IEEE Transactions on Communications*, **2021**, 1-1	6.9	1
258	Physical Layer Security for Multi-User MIMO Visible Light Communication Systems With Generalized Space Shift Keying. *IEEE Transactions on Communications*, **2021**, 69, 2585-2598	6.9	9
257	Re-Configurable Intelligent Surface-Based VLC Receivers Using Tunable Liquid-Crystals: The Concept. *Journal of Lightwave Technology*, **2021**, 39, 3193-3200	4	19
256	Toward the Use of Re-configurable Intelligent Surfaces in VLC Systems: Beam Steering. *IEEE Wireless Communications*, **2021**, 28, 156-162	13.4	13
255	Towards 6G wireless communication networks: vision, enabling technologies, and new paradigm shifts. *Science China Information Sciences*, **2021**, 64, 1	3.4	264
254	Optimization of the Receiving Orientation Angle for Zero-Forcing Precoding in VLC. *IEEE Communications Letters*, **2021**, 25, 921-925	3.8	2
253	Analysis of RIS-Based Terrestrial-FSO Link over G-G Turbulence with Distance and Jitter Ratios. *Journal of Lightwave Technology*, **2021**, 1-1	4	9

252	Hybrid LiFi and WiFi Networks: A Survey. *IEEE Communications Surveys and Tutorials*, **2021**, 23, 1398-1420	37.1	36
251	Realistic Secrecy Performance Analysis for LiFi Systems. *IEEE Access*, **2021**, 9, 120675-120688	3.5	2
250	Wireless Infrared-Based LiFi Uplink Transmission With Link Blockage and Random Device Orientation. *IEEE Transactions on Communications*, **2021**, 69, 1175-1188	6.9	5
249	Measurements-Based Channel Models for Indoor LiFi Systems. *IEEE Transactions on Wireless Communications*, **2021**, 20, 827-842	9.6	14
248	Organic photovoltaics for simultaneous energy harvesting and high-speed MIMO optical wireless communications. *Light: Science and Applications*, **2021**, 10, 41	16.7	11
247	Coherent LiFi System With Spatial Multiplexing. *IEEE Transactions on Communications*, **2021**, 69, 4632-4643	6.9	1
246	Bias Point Optimisation in LiFi for Capacity Enhancement. *Journal of Lightwave Technology*, **2021**, 39, 5021-5027	4	3
245	Invoking Deep Learning for Joint Estimation of Indoor LiFi User Position and Orientation. *IEEE Journal on Selected Areas in Communications*, **2021**, 39, 2890-2905	14.2	4
244	Effect of Sunlight on Photovoltaics as Optical Wireless Communication Receivers. *Journal of Lightwave Technology*, **2021**, 39, 6182-6190	4	1
243	iDim: Practical implementation of index modulation for LiFi Dimming. *IEEE Transactions on Green Communications and Networking*, **2021**, 1-1	4	1
242	FusionVLP: The Fusion of Photodiode and Camera for Visible Light Positioning. *IEEE Transactions on Vehicular Technology*, **2021**, 1-1	6.8	0
241	The Evolution of Optical OFDM. *IEEE Communications Surveys and Tutorials*, **2021**, 23, 1430-1457	37.1	15
240	Physical-Layer Security in 6G Networks. *IEEE Open Journal of the Communications Society*, **2021**, 2, 1901-1914	6.7	12
239	Design of a Power Amplifying-RIS for Free-Space Optical Communication Systems. *IEEE Wireless Communications*, **2021**, 28, 152-159	13.4	4
238	Optical wireless communications for cyber-secure ubiquitous wireless networks. *Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences*, **2020**, 476, 20200162	2.4	3
237	Optical wireless communication. *Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences*, **2020**, 378, 20200051	3	13
236	Reflection-Based Relaying Techniques in Visible Light Communications: Will it Work?. *IEEE Access*, **2020**, 8, 80922-80935	3.5	2
235	Physical-Layer Security in Visible Light Communications **2020**,		12

234	The Bit Error Performance and Information Transfer Rate of SPAD Array Optical Receivers. *IEEE Transactions on Communications*, **2020**, 68, 5689-5705	6.9	6
233	IQ-WDM for IEEE 802.11bb-based LiFi **2020**,		1
232	Multi-Hop Wireless Optical Backhauling for LiFi Attocell Networks: Bandwidth Scheduling and Power Control. *IEEE Transactions on Wireless Communications*, **2020**, 19, 5676-5691	9.6	2
231	Over 10 Gbps VLC for Long-Distance Applications Using a GaN-Based Series-Biased Micro-LED Array. *IEEE Photonics Technology Letters*, **2020**, 32, 499-502	2.2	25
230	Generalized Time Slot Index Modulation for Optical Wireless Communications. *IEEE Transactions on Communications*, **2020**, 68, 3706-3719	6.9	3
229	Studies of Flatness of LiFi Channel for IEEE 802.11bb **2020**,		1
228	Realistic Indoor Hybrid WiFi and OFDMA-Based LiFi Networks. *IEEE Transactions on Communications* , **2020**, 68, 2978-2991	6.9	26
227	Physical-Layer Security With Optical Generalized Space Shift Keying. *IEEE Transactions on Communications*, **2020**, 68, 3042-3056	6.9	17
226	Physical Layer Security for Visible Light Communication Systems: A Survey. *IEEE Communications Surveys and Tutorials*, **2020**, 22, 1887-1908	37.1	47
225	Distortion losses of high-speed single-photon avalanche diode optical receivers approaching quantum sensitivity. *Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences*, **2020**, 378, 20190194	3	3
224	Advanced LiFi technology: Laser light **2020**,		9
223	Gigabit per second visible light communication based on AlGaInP red micro-LED micro-transfer printed onto diamond and glass. *Optics Express*, **2020**, 28, 12149-12156	3.3	11
222	Triple-cation perovskite solar cells for visible light communications. *Photonics Research*, **2020**, 8, A16	6	15
221	Visible-light communications and light fidelity **2020**, 443-493		6
220	Spatial Modulated Multicarrier Sparse Code-Division Multiple Access. *IEEE Transactions on Wireless Communications*, **2020**, 19, 610-623	9.6	10
219	Load Balancing for Hybrid LiFi and WiFi Networks: To Tackle User Mobility and Light-Path Blockage. *IEEE Transactions on Communications*, **2020**, 68, 1675-1683	6.9	18
218	Gb/s Underwater Wireless Optical Communications Using Series-Connected GaN Micro-LED Arrays. *IEEE Photonics Journal*, **2020**, 12, 1-10	1.8	16
217	A Compressive Sensing Assisted Massive SM-VBLAST System: Error Probability and Capacity Analysis. *IEEE Transactions on Wireless Communications*, **2020**, 19, 1990-2005	9.6	16

216	Introduction to indoor networking concepts and challenges in LiFi. *Journal of Optical Communications and Networking*, **2020**, 12, A190	4.1	43
215	A Tb/s Indoor Optical Wireless Backhaul System Using VCSEL Arrays **2020**,		5
214	End-to-End Energy Efficiency Evaluation for B5G Ultra Dense Networks **2020**,		1
213	An Orientation-Based Random Waypoint Model for User Mobility in Wireless Networks **2020**,		7
212	On the Performance of Single Side-Band OFDM for Band-Limited Visible Light Communication **2020** ,		1
211	A Tb/s Indoor Optical Wireless Access System Using VCSEL Arrays **2020**,		1
210	Simultaneous Wireless Data and Power Transfer for a 1-Gb/s GaAs VCSEL and Photovoltaic Link. *IEEE Photonics Technology Letters*, **2020**, 32, 1277-1280	2.2	15
209	The UK Programmable Fixed and Mobile Internet Infrastructure: Overview, Capabilities and Use Cases Deployment. *IEEE Access*, **2020**, 8, 175398-175411	3.5	0
208	The Movement-Rotation (MR) Correlation Function and Coherence Distance of VLC Channels. *Journal of Lightwave Technology*, **2020**, 38, 6759-6770	4	1
207	Software-Defined Networking-Enabled Heterogeneous Wireless Networks and Applications Convergence. *IEEE Access*, **2020**, 8, 66672-66692	3.5	4
206	LiFi Opportunities and Challenges **2019**,		7
205	Performance Comparison Between Coherent and DCO-OFDM LiFi Systems **2019**,		3
204	An Omnidirectional User Equipment Configuration to Support Mobility in LiFi Networks **2019**,		11
203	An Experimental Demonstration of an Energy Efficient DMT Technique for LiFi Systems **2019**,		1
202	SNR Statistics of Indoor Mobile VLC Users with Random Device Orientation **2019**,		11
201	Towards Energy Neutral Wireless Communications: Photovoltaic Cells to Connect Remote Areas. *Energies*, **2019**, 12, 3772	3.1	12
200	OFDM-Based Optical Spatial Modulation. *IEEE Journal on Selected Topics in Signal Processing*, **2019**, 13, 1433-1444	7.5	13
199	Terminal Orientation in OFDM-Based LiFi Systems. *IEEE Transactions on Wireless Communications*, **2019**, 18, 4003-4016	9.6	24

198	Dynamic Multiple Access Configuration in Intelligent Lifi Attocellular Access Points. *IEEE Access*, **2019**, 7, 62126-62141	3.5	11
197	Handover Skipping for LiFi. *IEEE Access*, **2019**, 7, 38369-38378	3.5	31
196	Impact of Device Orientation on Error Performance of LiFi Systems. *IEEE Access*, **2019**, 7, 41690-41701	3.5	26
195	15.73 Gb/s Visible Light Communication With Off-the-Shelf LEDs. *Journal of Lightwave Technology*, **2019**, 37, 2418-2424	4	87
194	Compressive Sensing Assisted Generalized Quadrature Spatial Modulation for Massive MIMO Systems. *IEEE Transactions on Communications*, **2019**, 67, 4795-4810	6.9	15
193	Neural Network-Based Joint Spatial and Temporal Equalization for MIMO-VLC System. *IEEE Photonics Technology Letters*, **2019**, 31, 821-824	2.2	13
192	Angle Diversity Receiver in LiFi Cellular Networks **2019**,		11
191	A Novel Transmit Array Structure for Optical Spatial Modulation **2019**,		1
190	Bidirectional Optical Spatial Modulation for Mobile Users: Toward a Practical Design for LiFi Systems. *IEEE Journal on Selected Areas in Communications*, **2019**, 37, 2069-2086	14.2	22
189	MIMO System with Multi-Directional Receiver in Optical Wireless Communications **2019**,		11
188	Cyclic-Prefixed System with PAM using DFE and THP for Uplink Transmission in LiFi **2019**,		5
187	Index Time Division Multiple Access (I-TDMA) for LiFi Systems **2019**,		3
186	Random Receiver Orientation Effect on Channel Gain in LiFi Systems **2019**,		5
185	Mobility-aware load balancing for hybrid LiFi and WiFi networks. *Journal of Optical Communications and Networking*, **2019**, 11, 588	4.1	13
184	On-chip GaN-based dual-color micro-LED arrays and their application in visible light communication. *Optics Express*, **2019**, 27, A1517-A1528	3.3	25
183	Solar Cell Receiver Free-Space Optical for 5G Backhaul **2019**,		6
182	1 Gbps free-space deep-ultraviolet communications based on III-nitride micro-LEDs emitting at 262 nm. *Photonics Research*, **2019**, 7, B41	6	52
181	Access Point Selection Scheme for LiFi Cellular Networks using Angle Diversity Receivers **2019**,		5

180	Opportunities and Challenges of Future LiFi **2019**,		1
179	Generalized Time Slot Index Modulation for LiFi **2019**,		2
178	A Study of Sojourn Time for Indoor LiFi Cellular Networks **2019**,		5
177	Effects of Irregular Photodiode Configurations for Indoor MIMO VLC with Mobile Users **2019**,		1
176	High-Speed Visible Light Communication Based on a III-Nitride Series-Biased Micro-LED Array. *Journal of Lightwave Technology*, **2019**, 37, 1180-1186	4	37
175	A Tractable Approach to Joint Transmission in Multiuser Visible Light Communication Networks. *IEEE Transactions on Mobile Computing*, **2019**, 18, 2231-2242	4.6	7
174	A Wireless Optical Backhaul Solution for Optical Attocell Networks. *IEEE Transactions on Wireless Communications*, **2019**, 18, 807-823	9.6	19
173	Modeling the Random Orientation of Mobile Devices: Measurement, Analysis and LiFi Use Case. *IEEE Transactions on Communications*, **2019**, 67, 2157-2172	6.9	74
172	A Survey of Positioning Systems Using Visible LED Lights. *IEEE Communications Surveys and Tutorials*, **2018**, 20, 1963-1988	37.1	224
171	The Impact of Solar Irradiance on Visible Light Communications. *Journal of Lightwave Technology*, **2018**, 36, 2376-2386	4	58
170	Link Selection in Hybrid RF/VLC Systems Under Statistical Queueing Constraints. *IEEE Transactions on Wireless Communications*, **2018**, 17, 2738-2754	9.6	28
169	Statistical Modeling of Single-Photon Avalanche Diode Receivers for Optical Wireless Communications. *IEEE Transactions on Communications*, **2018**, 66, 4043-4058	6.9	35
168	Anticipatory Association for Indoor Visible Light Communications: Light, Follow Me!. *IEEE Transactions on Wireless Communications*, **2018**, 17, 2499-2510	9.6	25
167	Physical-Layer Security in Multiuser Visible Light Communication Networks. *IEEE Journal on Selected Areas in Communications*, **2018**, 36, 162-174	14.2	88
166	Flexible Glass Hybridized Colloidal Quantum Dots for Gb/s Visible Light Communications. *IEEE Photonics Journal*, **2018**, 10, 1-11	1.8	5
165	Joint User Association and Power Allocation for Cell-Free Visible Light Communication Networks. *IEEE Journal on Selected Areas in Communications*, **2018**, 36, 136-148	14.2	40
164	Efficient Analytical Calculation of Non-Line-of-Sight Channel Impulse Response in Visible Light Communications. *Journal of Lightwave Technology*, **2018**, 36, 1666-1682	4	23
163	Bidirectional User Throughput Maximization Based on Feedback Reduction in LiFi Networks. *IEEE Transactions on Communications*, **2018**, 66, 3172-3186	6.9	44

162	Cooperative Spatial Modulation for Cellular Networks. *IEEE Transactions on Communications*, **2018**, 66, 3683-3693	6.9	12
161	0.5-Gb/s OFDM-Based Laser Data and Power Transfer Using a GaAs Photovoltaic Cell. *IEEE Photonics Technology Letters*, **2018**, 30, 841-844	2.2	31
160	LiFi is a paradigm-shifting 5G technology. *Reviews in Physics*, **2018**, 3, 26-31	11.3	128
159	Achieving Minimum Error in MISO Optical Spatial Modulation **2018**,		10
158	Inflight Connectivity: Deploying Different Communication Networks inside an Aircraft **2018**,		5
157	Coordinated Scheduling for Aircraft In-Cabin LTE Deployment under Practical Constraints **2018**,		1
156	Handover Probability of Hybrid LiFi/RF-Based Networks with Randomly-Oriented Devices **2018**,		13
155	Omnidirectional Transmitter and Receiver Design for Wireless Infrared Uplink Transmission in LiFi **2018**,		14
154	Bidirectional LiFi Attocell Access Point Slicing Scheme. *IEEE Transactions on Network and Service Management*, **2018**, 15, 909-922	4.8	12
153	Impact of terminal orientation on performance in LiFi systems **2018**,		17
152	Coverage Analysis of Multiuser Visible Light Communication Networks. *IEEE Transactions on Wireless Communications*, **2018**, 17, 1630-1643	9.6	20
151	Orientation Model of Mobile Device for Indoor VLC and Millimetre Wave Systems **2018**,		10
150	Bandwidth Scheduling and Power Control for Wireless Backhauling in Optical Attocell Networks **2018**,		3
149	OFDM-Based Spatial Modulation for Optical Wireless Communications **2018**,		8
148	Physical-Layer Security for Indoor Visible Light Communications with Space Shift Keying Modulation **2018**,		3
147	Power Consumption Evaluation in High Speed Visible Light Communication Systems **2018**,		1
146	The Impact of Long Dead Time on the Photocount Distribution of SPAD Receivers **2018**,		3
145	Downlink Performance of Optical OFDM in Outdoor Visible Light Communication. *IEEE Access*, **2018**, 6, 76854-76866	3.5	17

144	A 2-D Non-Stationary GBSM for Vehicular Visible Light Communication Channels. *IEEE Transactions on Wireless Communications*, **2018**, 17, 7981-7992	9.6	30
143	Energy-Efficient Adaptive MIMO-VLC Technique for Indoor LiFi Applications **2018**,		13
142	Interference Mitigation for Indoor Optical Attocell Networks Using an Angle Diversity Receiver. *Journal of Lightwave Technology*, **2018**, 36, 3866-3881	4	25
141	Operating an In-Cabin Femto-Cellular System Within a Given LTE Cellular Network. *IEEE Transactions on Vehicular Technology*, **2018**, 67, 7677-7689	6.8	2
140	Optimization of Load Balancing in Hybrid LiFi/RF Networks. *IEEE Transactions on Communications*, **2017**, 65, 1708-1720	6.9	69
139	Performance Analysis of Receive Space Modulation in the Shadowing MIMO Broadcast Channel. *IEEE Transactions on Communications*, **2017**, 65, 1972-1983	6.9	10
138	Space Division Multiple Access for Optical Attocell Network Using Angle Diversity Transmitters. *Journal of Lightwave Technology*, **2017**, 35, 2118-2131	4	31
137	A Multigigabit per Second Integrated Multiple-Input Multiple-Output VLC Demonstrator. *Journal of Lightwave Technology*, **2017**, 35, 4358-4365	4	32
136	Handover Modeling for Indoor Li-Fi Cellular Networks: The Effects of Receiver Mobility and Rotation **2017**,		35
135	Optical MIMO-OFDM With Generalized LED Index Modulation. *IEEE Transactions on Communications* , **2017**, 1-1	6.9	57
134	Load Balancing Game With Shadowing Effect for Indoor Hybrid LiFi/RF Networks. *IEEE Transactions on Wireless Communications*, **2017**, 16, 2366-2378	9.6	54
133	Quadrature Spatial Modulation for 5G Outdoor Millimeter Wave Communications: Capacity Analysis. *IEEE Transactions on Wireless Communications*, **2017**, 16, 2882-2890	9.6	40
132	Access Point Selection for Hybrid Li-Fi and Wi-Fi Networks. *IEEE Transactions on Communications*, **2017**, 65, 5375-5385	6.9	78
131	Physical layer security for optical attocell networks **2017**,		12
130	A wireless backhaul solution using visible light communication for indoor Li-Fi attocell networks **2017**,		13
129	High-Speed Integrated Digital to Light Converter for Short Range Visible Light Communication. *IEEE Photonics Technology Letters*, **2017**, 29, 118-121	2.2	14
128	Performance Evaluation of Downlink Cooperative Multipoint Joint Transmission in LiFi Systems **2017**,		16
127	Robust and Low-Complexity Timing Synchronization for DCO-OFDM LiFi Systems. *IEEE Journal on Selected Areas in Communications*, **2017**, 1-1	14.2	18

126	Why would 5G need optical wireless communications? **2017**,		30
125	On throughput maximization based on optimal update interval in Li-Fi networks **2017**,		12
124	**2017**,		1
123	Towards 10 Gb/s orthogonal frequency division multiplexing-based visible light communication using a GaN violet micro-LED. *Photonics Research*, **2017**, 5, A35	6	206
122	Quadrature Spatial Modulation Performance Over Nakagami- m Fading Channels. *IEEE Transactions on Vehicular Technology*, **2016**, 65, 10227-10231	6.8	39
121	Characterization and Modeling of Visible Light Communication Channels **2016**,		23
120	Downlink cooperation with fractional frequency reuse in DCO-OFDMA optical attocell networks **2016**,		24
119	60 Mb/s, 2 meters visible light communications in 1 klx ambient using an unlensed CMOS SPAD receiver **2016**,		15
118	On the Asymptotic Performance of Receive Space Modulation in the Shadowing Broadcast Channel. *IEEE Communications Letters*, **2016**, 20, 2103-2106	3.8	8
117	Downlink Performance of Optical Attocell Networks. *Journal of Lightwave Technology*, **2016**, 34, 137-1564		141
116	What is LiFi?. *Journal of Lightwave Technology*, **2016**, 34, 1533-1544	4	606
115	. *IEEE Communications Surveys and Tutorials*, **2016**, 18, 1687-1716	37.1	163
114	Performance Analysis of Indoor Diffuse VLC MIMO Channels Using Angular Diversity Detectors. *Journal of Lightwave Technology*, **2016**, 34, 1254-1266	4	51
113	. *IEEE Transactions on Vehicular Technology*, **2016**, 65, 2947-2964	6.8	57
112	Performance Analysis of Multistream Receive Spatial Modulation in the MIMO Broadcast Channel. *IEEE Transactions on Wireless Communications*, **2016**, 15, 1808-1820	9.6	44
111	BER Performance of Spatial Modulation Systems Under 3-D V2V MIMO Channel Models. *IEEE Transactions on Vehicular Technology*, **2016**, 65, 5725-5730	6.8	15
110	On the Information Transfer Rate of SPAD Receivers for Optical Wireless Communications **2016**,		11
109	SDN-enabled Li-Fi/Wi-Fi wireless medium access technologies integration framework **2016**,		6

108	LiFi: Conceptions, misconceptions and opportunities **2016**,		24
107	Energy Efficient Visible Light Communications Relying on Amorphous Cells. *IEEE Journal on Selected Areas in Communications*, **2016**, 34, 894-906	14.2	41
106	Indoor Optical Wireless Power Transfer to Small Cells at Nighttime. *Journal of Lightwave Technology*, **2016**, 34, 3236-3258	4	48
105	LED Based Wavelength Division Multiplexed 10 Gb/s Visible Light Communications. *Journal of Lightwave Technology*, **2016**, 34, 3047-3052	4	139
104	A geometry-based multiple bounce model for visible light communication channels **2016**,		23
103	. *IEEE Transactions on Communications*, **2016**, 64, 5162-5175	6.9	197
102	Non-line-of-sight channel impulse response characterisation in visible light communications **2016**,		23
101	Spectral and Energy Efficiency Analysis for Cognitive Radio Networks. *IEEE Transactions on Wireless Communications*, **2015**, 14, 2969-2980	9.6	41
100	Optical OFDM With Single-Photon Avalanche Diode. *IEEE Photonics Technology Letters*, **2015**, 27, 943-946	2.2	74
99	Unlocking Spectral Efficiency in Intensity Modulation and Direct Detection Systems. *IEEE Journal on Selected Areas in Communications*, **2015**, 33, 1758-1770	14.2	106
98	Towards a 100 Gb/s visible light wireless access network. *Optics Express*, **2015**, 23, 1627-37	3.3	259
97	Organic solar cells as high-speed data detectors for visible light communication. *Optica*, **2015**, 2, 607	8.6	53
96	Dynamic Load Balancing With Handover in Hybrid Li-Fi and Wi-Fi Networks. *Journal of Lightwave Technology*, **2015**, 33, 4671-4682	4	125
95	Visible light communication using laser diode based remote phosphor technique **2015**,		22
94	Single-chip discrete multitone generation **2015**,		4
93	Experimental proof-of-concept of optical spatial modulation OFDM using micro LEDs **2015**,		11
92	Performance optimization of aircraft in-cabin LTE deployment using Taguchi Method **2015**,		4
91	Visible Light Communication **2015**,		49

90	Fractional Frequency Reuse in DCO-OFDM-Based Optical Attocell Networks. *Journal of Lightwave Technology*, **2015**, 33, 3986-4000	4	64
89	Nonlinear Distortion in SPAD-Based Optical OFDM Systems **2015**,		22
88	High-Speed Integrated Visible Light Communication System: Device Constraints and Design Considerations. *IEEE Journal on Selected Areas in Communications*, **2015**, 33, 1750-1757	14.2	84
87	A SPAD-Based Visible Light Communications Receiver Employing Higher Order Modulation **2015**,		15
86	Detection statistics and error performance of SPAD-based optical receivers **2015**,		13
85	Photon detection characteristics and error performance of SPAD array optical receivers **2015**,		10
84	Indoor Visible Light Positioning with Angle Diversity Transmitter **2015**,		29
83	Coordinated Interference Management for Visible Light Communication Systems. *Journal of Optical Communications and Networking*, **2015**, 7, 1098	4.1	21
82	Performance Analysis of Spatial Modulation and Space-Shift Keying With Imperfect Channel Estimation Over Generalized $eta{-}mu$ Fading Channels. *IEEE Transactions on Vehicular Technology*, **2015**, 64, 88-96	6.8	32
81	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	14.2	113
80	Principles of LED Light Communications: Towards Networked Li-Fi **2015**,		213
79	Cellular architecture and key technologies for 5G wireless communication networks **2014**, 52, 122-130		1253
78	Demonstration of the Merit and Limitation of Generalised Space Shift Keying for Indoor Visible Light Communications. *Journal of Lightwave Technology*, **2014**, 32, 1960-1965	4	58
77	A 3-Gb/s Single-LED OFDM-Based Wireless VLC Link Using a Gallium Nitride $mu{rm LED}$. *IEEE Photonics Technology Letters*, **2014**, 26, 637-640	2.2	546
76	VLC: Beyond point-to-point communication **2014**, 52, 98-105		206
75	A SPAD-Based Visible Light Communications Receiver Employing Higher Order Modulation **2014**,		1
74	Single photon avalanche diode (SPAD) VLC system and application to downhole monitoring **2014**,		28
73	Dynamic load balancing with handover in hybrid Li-Fi and Wi-Fi networks **2014**,		17

72	Optical spatial modulation OFDM using micro LEDs **2014**,		4
71	Towards self-powered solar panel receiver for optical wireless communication **2014**,		31
70	Analysis of downlink transmission in DCO-OFDM-based optical attocell networks **2014**,		29
69	A Performance Study of Spatial Modulation Systems under Vehicle-to-Vehicle Channel Models **2014** ,		5
68	. *Proceedings of the IEEE*, **2014**, 102, 56-103	14.3	900
67	. *IEEE Transactions on Communications*, **2013**, 61, 2758-2771	6.9	32
66	Performance Comparison of MIMO Techniques for Optical Wireless Communications in Indoor Environments. *IEEE Transactions on Communications*, **2013**, 61, 733-742	6.9	414
65	Information Rate of OFDM-Based Optical Wireless Communication Systems With Nonlinear Distortion. *Journal of Lightwave Technology*, **2013**, 31, 918-929	4	165
64	. *IEEE Transactions on Communications*, **2013**, 61, 1968-1976	6.9	89
63	Practical MIMO Capacity for Indoor Optical Wireless Communication with White LEDs **2013**,		17
62	Area spectral efficiency performance comparison between VLC and RF femtocell networks **2013**,		71
61	. *IEEE Transactions on Vehicular Technology*, **2013**, 62, 4511-4523	6.8	164
60	Joint transmission in indoor visible light communication downlink cellular networks **2013**,		52
59	Fractional frequency reuse in optical wireless cellular networks **2013**,		27
58	Signal Shaping and Modulation for Optical Wireless Communication. *Journal of Lightwave Technology*, **2012**, 30, 1319-1328	4	62
57	Clipping Noise in OFDM-Based Optical Wireless Communication Systems. *IEEE Transactions on Communications*, **2012**, 60, 1072-1081	6.9	200
56	An energy saving base station employing spatial modulation **2012**,		50
55	Study of dimming and LED nonlinearity for ACO-OFDM based VLC systems **2012**,		31

54	Energy efficient resource allocation in wireless systems with control channel overhead **2012**,		2
53	A Non-Stationary MIMO Channel Model for High-Speed Train Communication Systems **2012**,		33
52	Sum Rate Increase via Variable Interference Protection. *IEEE Transactions on Mobile Computing*, **2012**, 11, 2121-2132	4.6	4
51	A non-stationary geometry-based stochastic model for MIMO high-speed train channels **2012**,		4
50	Base station energy consumption for transmission optimised spatial modulation (TOSM) in correlated channels **2012**,		5
49	Energy-Efficient Subcarrier-and-Bit Allocation in Multi-User OFDMA Systems **2012**,		25
48	Pulse shaping in unipolar OFDM-based modulation schemes **2012**,		5
47	Using a CMOS camera sensor for visible light communication **2012**,		209
46	Self-organising interference coordination in optical wireless networks. *Eurasip Journal on Wireless Communications and Networking*, **2012**, 2012,	3.2	40
45	Spatial Pulse Position Modulation for Optical Communications. *Journal of Lightwave Technology*, **2012**, 30, 2948-2954	4	87
44	Novel Unipolar Orthogonal Frequency Division Multiplexing (U-OFDM) for Optical Wireless **2012**,		132
43	Optimal Power Allocation in Spatial Modulation OFDM for Visible Light Communications **2012**,		30
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