Mohammad A Khalighi

List of Publications by Year
in descending order

86 papers	4,020 citations	236925 25 h-index	144013 57 g-index
88 all docs	88 docs citations	88 times ranked	2212 citing authors

#	Article	IF	Citations
1	UAV Location Optimization in MISO ZF Pre-Coded VLC Networks. IEEE Wireless Communications Letters, 2022, 11, 28-32.	5.0	7
2	Visible light communication with OLEDs for D2D communications considering user movement and receiver orientations. Applied Optics, 2022, 61, 676.	1.8	2
3	Outage probability analysis of a vertical underwater wireless optical link subject to oceanic turbulence and pointing errors. Journal of Optical Communications and Networking, 2022, 14, 439.	4.8	25
4	Influence of MPPC Parameters on the Performance of Underwater Optical Links. , 2022, , .		0
5	Ergodic Capacity of a Vertical Underwater Wireless Optical Communication Link Subject to Misalignment. , 2022, , .		0
6	Angular MIMO for Underwater Wireless Optical Communications: Link Modeling and Tracking. IEEE Journal of Oceanic Engineering, 2021, 46, 1391-1407.	3.8	19
7	Parameter Optimization for an Underwater Optical Wireless Vertical Link Subject to Link Misalignments. IEEE Journal of Oceanic Engineering, 2021, 46, 1424-1437.	3.8	19
8	Special Issue on: Optical Wireless Communications for Emerging Connectivity Requirements. IEEE Open Journal of the Communications Society, 2021, 2, 82-86.	6.9	1
9	Power Allocation Optimization in NOMA-Based Multi-Cell VLC Networks. , 2021, , .		2
10	Wireless Body-Area Networks in Medical Applications Using Optical Signal Transmission. , 2021, , .		3
11	Under-Sea Ice Diffusing Optical Communications. IEEE Access, 2021, 9, 159652-159671.	4.2	3
12	Impact of Synchronization Errors on the Performance of ACO-OFDMA Signaling for Medical Extra-WBAN Links. , 2021, , .		1
13	Silicon-Photomultiplier-Based Underwater Wireless Optical Communication Using Pulse-Amplitude Modulation. IEEE Journal of Oceanic Engineering, 2020, 45, 1611-1621.	3.8	25
14	Dimming-Aware Interference Mitigation for NOMA-Based Multi-Cell VLC Networks. IEEE Communications Letters, 2020, 24, 2541-2545.	4.1	6
15	Performance Analysis of Optical-CDMA for Uplink Transmission in Medical Extra-WBANs. IEEE Access, 2020, 8, 171672-171685.	4.2	9
16	Optical OFDM for SiPM-Based Underwater Optical Wireless Communication Links. Sensors, 2020, 20, 6057.	3.8	16
17	Hybrid NOMA and ZF Pre-Coding Transmission for Multi-Cell VLC Networks. IEEE Open Journal of the Communications Society, 2020, 1, 513-526.	6.9	18
18	Blind Signal Detection Under Synchronization Errors for FSO Links With High Mobility. IEEE Transactions on Communications, 2019, 67, 7006-7015.	7.8	10

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19	On Limitations of Using Silicon Photo-Multipliers for Underwater Wireless Optical Communications. , 2019, , .		6
20	Performance analysis of mixed RF/FSO cooperative systems with wireless power transfer. Physical Communication, 2019, 33, 187-198.	2.1	7
21	Differential pulseâ€amplitude modulation signalling for freeâ€space optical communications. IET Optoelectronics, 2019, 13, 155-160.	3.3	2
22	Multiple Access Techniques for VLC in Large Space Indoor Scenarios: A Comparative Study. , 2019, , .		16
23	Angular MIMO for Underwater Wireless Optical Communications: Channel Modelling and Capacity. , 2019, , .		7
24	Experimental analysis of a triple-hop relay-assisted FSO system with turbulence. Optical Switching and Networking, 2019, 33, 194-198.	2.0	17
25	FSO Communication for High Speed Trains: Blind Data Detection and Channel Estimation. , 2018, , .		4
26	Channel Modeling and Parameter Optimization for Hovering UAV-Based Free-Space Optical Links. IEEE Journal on Selected Areas in Communications, 2018, 36, 2104-2113.	14.0	143
27	Improving the performance of underwater wireless optical communication links by channel coding. Applied Optics, 2018, 57, 2115.	1.8	24
28	Differential Signalling in Free-Space Optical Communication Systems. Applied Sciences (Switzerland), 2018, 8, 872.	2.5	9
29	Impact of Link Parameters and Channel Correlation on the Performance of FSO Systems With the Differential Signaling Technique. Journal of Optical Communications and Networking, 2017, 9, 138.	4.8	26
30	Underwater Wireless Optical Communications Using Silicon Photo-Multipliers. IEEE Photonics Journal, 2017, 9, 1-10.	2.0	56
31	FSO channel estimation for OOK modulation with APD receiver over atmospheric turbulence and pointing errors. Optics Communications, 2017, 402, 577-584.	2.1	56
32	Experimental Investigation of All-Optical Relay-Assisted 10 Gb/s FSO Link Over the Atmospheric Turbulence Channel. Journal of Lightwave Technology, 2017, 35, 45-53.	4.6	76
33	PAM- and CAP-Based Transmission Schemes for Visible-Light Communications. IEEE Access, 2017, 5, 27002-27013.	4.2	51
34	Investigation of solar noise impact on the performance of underwater wireless optical communication links. Optics Express, 2016, 24, 25832.	3.4	71
35	Efficient signal detection for cognitive radio relay networks under imperfect channel estimation. Transactions on Emerging Telecommunications Technologies, 2016, 27, 1593-1605.	3.9	4
36	On the suitability of employing silicon photomultipliers for underwater wireless optical communication links. , 2016, , .		6

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37	Performance Analysis of FSO Communications Under Correlated Fading Conditions. Signals and Communication Technology, 2016, , 209-229.	0.5	1
38	Investigating channel frequency selectivity in indoor visibleâ€light communication systems. IET Optoelectronics, 2016, 10, 80-88.	3.3	29
39	Quantized Feedback-Based Differential Signaling for Free-Space Optical Communication System. IEEE Transactions on Communications, 2016, 64, 5176-5188.	7.8	34
40	Effect of optimal Lambertian order for cellular indoor optical wireless communication and positioning systems. Optical Engineering, 2016, 55, 066114.	1.0	20
41	Effects of aperture averaging and beam width on a partially coherent Gaussian beam over free-space optical links with turbulence and pointing errors. Applied Optics, 2016, 55, 1.	2.1	37
42	FSO Detection Using Differential Signaling in Outdoor Correlated-Channels Condition. IEEE Photonics Technology Letters, 2016, 28, 55-58.	2.5	32
43	Performance analysis of all-optical amplify-and-forward FSO relaying over atmospheric turbulence. , 2015, , .		4
44	10 Gbps all-optical relay-assisted FSO system over a turbulence channel. , 2015, , .		8
45	Transmission schemes for visible light communications in multipath environments. , 2015, , .		12
46	Improved maximum a posteriori signal detection for amplifyâ€andâ€forward relay networks with imperfect channel state information. IET Communications, 2014, 8, 2900-2908.	2.2	0
47	Survey on Free Space Optical Communication: A Communication Theory Perspective. IEEE Communications Surveys and Tutorials, 2014, 16, 2231-2258.	39.4	1,606
48	Performance analysis of spaceâ€diversity freeâ€space optical systems over the correlated Gammaâ€“Gamma fading channel using PadÃ© approximation method. IET Communications, 2014, 8, 2246-2255.	2.2	24
49	Underwater wireless optical communication; recent advances and remaining challenges. , 2014, , .		74
50	Fading correlation and analytical performance evaluation of the space-diversity free-space optical communications system. Journal of Optics (United Kingdom), 2014, 16, 035403.	2.2	44
51	Misalignment considerations in point-to-point underwater wireless optical links. , 2013, , .		24
52	Monte-Carlo-Based Channel Characterization for Underwater Optical Communication Systems. Journal of Optical Communications and Networking, 2013, 5, 1.	4.8	348
53	Joint optimization of a partially coherent Gaussian beam for free-space optical communication over turbulent channels with pointing errors. Optics Letters, 2013, 38, 350.	3.3	28
54	Performance evaluation of receive-diversity free-space optical communications over correlated Gammaâ€“Gamma fading channels. Applied Optics, 2013, 52, 5903.	1.8	45

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55	Performance evaluation of correlated-fading space-diversity FSO links. , 2013, , .		5
56	Iterative Channel Estimation and Data Detection for Amplify-and-Forward Relay Networks. IEEE Communications Letters, 2012, 16, 710-713.	4.1	4
57	Approximation to the Sum of Two Correlated Gamma-Gamma Variates and its Applications in Free-Space Optical Communications. IEEE Wireless Communications Letters, 2012, 1, 621-624.	5.0	24
58	Investigation of suitable modulation techniques for underwater wireless optical communication. , 2012, , .		19
59	Performance of receive diversity FSO systems under realistic beam propagation conditions. , 2012, , .		6
60	Contrasting space-time schemes for MIMO FSO systems with non-coherent modulation. , 2012, , .		20
61	Channel modeling for underwater optical communication. , 2011, , .		105
62	Double-Laser Differential Signaling for Reducing the Effect of Background Radiation in Free-Space Optical Systems. Journal of Optical Communications and Networking, 2011, 3, 145.	4.8	41
63	Suitable combination of channel coding and spaceâ€“time schemes for moderate-to-high spectral efficiency MIMO systems. AEU - International Journal of Electronics and Communications, 2010, 64, 595-606.	2.9	3
64	Recent Developments in Channel Estimation and Detection for MIMO Systems. , 2010, , .		1
65	Improved Iterative MIMO Signal Detection Accounting for Channel-Estimation Errors. IEEE Transactions on Vehicular Technology, 2009, 58, 3154-3167.	6.3	16
66	Coded PPM and Multipulse PPM and Iterative Detection for Free-Space Optical Links. Journal of Optical Communications and Networking, 2009, 1, 404.	4.8	48
67	Fading Reduction by Aperture Averaging and Spatial Diversity in Optical Wireless Systems. Journal of Optical Communications and Networking, 2009, 1, 580.	4.8	200
68	Channel coding and time-diversity for optical wireless links. Optics Express, 2009, 17, 872.	3.4	127
69	Efficient channel coding for multipulse pulse position modulation in terrestrial FSO systems. Proceedings of SPIE, 2009, , .	0.8	5
70	Semiblind Single-Carrier MIMO Channel Estimation Using Overlay Pilots. IEEE Transactions on Vehicular Technology, 2008, 57, 1951-1956.	6.3	18
71	Performance of coded time-diversity free-space optical links. , 2008, , .		2
72	Optimal Turbo-Blast Detection of MIMO-OFDM Systems with Imperfect Channel Estimation. , 2007, , .		9

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73	Semi-blind Channel Estimation Based on Superimposed Pilots for Single-Carrier MIMO Systems. IEEE Vehicular Technology Conference, 2007, , .	0.4	6
74	Semi-Blind Channel Estimation Using the EM Algorithm in Iterative MIMO APP Detectors. IEEE Transactions on Wireless Communications, 2006, 5, 3165-3173.	9.2	39
75	Data-aided channel estimation for turbo-PIC MIMO detectors. IEEE Communications Letters, 2006, 10, 350-352.	4.1	17
76	Contrasting Orthogonal and Non-orthogonal Space-Time Schemes for Perfectly-Known and Estimated MIMO Channels. , 2006, , .		7
77	Choice of Appropriate Space-Time Coding Scheme for MIMO Systems Employing Channel Coding under BICM. , 2006, , .		4
78	Delayed two-streams division, a diversity technique to improve signal transmission in relatively fast flat fading channels. Signal Processing, 2005, 85, 705-715.	3.7	0
79	CFAR adaptive threshold for ESM receiver with logarithmic amplification. Signal Processing, 2004, 84, 41-53.	3.7	8
80	Effect of mismatched snr on the performance of log-MAP turbo detector. IEEE Transactions on Vehicular Technology, 2003, 52, 1386-1397.	6.3	32
81	A clever combination of transmit symbols to reduce flat fading effect. , 2003, , .		1
82	Capacity of Wireless Communication Systems Employing Antenna Arrays, a Tutorial Study. Wireless Personal Communications, 2002, 23, 321-352.	2.7	32
83	CFAR processor for ESM systems applications. IET Radar, Sonar & Navigation, 2000, 147, 86.	2.1	8
84	Adaptive CFAR processor for nonhomogeneous environments. IEEE Transactions on Aerospace and Electronic Systems, 2000, 36, 889-897.	4.7	32
85	Modified unbiased EM-based channel estimation for MIMO turbo receivers. , 0, , .		2
86	Channel Estimation in Turbo-BLAST Detectors Using EM Algorithm. , 0, , .		11