

Mehtab Singh

List of Publications by Year in descending order

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60
papers

1,020
citations

430874

18
h-index

501196

28
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62
all docs

62
docs citations

62
times ranked

217
citing authors

#	ARTICLE	IF	CITATIONS
1	Performance analysis of 40 Gbit/s free space optics transmission based on orbital angular momentum multiplexed beams. AEJ - Alexandria Engineering Journal, 2022, 61, 5203-5212.	6.4	50
2	Ultra-high capacity long-haul PDM-16-QAM-based WDM-FSO transmission system using coherent detection and digital signal processing. Optical and Quantum Electronics, 2020, 52, 1.	3.3	47
3	Development of high-speed FSO transmission link for the implementation of 5G and Internet of Things. Wireless Networks, 2020, 26, 2403-2412.	3.0	45
4	Performance Comparison of 20 Gbit/s-40 GHz OFDM Based RoFSO Transmission Link Incorporating MDM of Hermite Gaussian Modes Using Different Modulation Schemes. Wireless Personal Communications, 2020, 110, 699-711.	2.7	43
5	Performance enhancement of hybrid fiber wavelength division multiplexing passive optical network FSO systems using M-ary DPPM techniques under interchannel crosstalk and atmospheric turbulence. Optical and Quantum Electronics, 2022, 54, 1.	3.3	42
6	Performance evaluation of 6.4 Tbps dual polarization quadrature phase shift keying Nyquist-WDM superchannel FSO transmission link: Impact of different weather conditions. AEJ - Alexandria Engineering Journal, 2020, 59, 977-986.	6.4	40
7	Investigations on wavelength-division multiplexed fibre/FSO PON system employing DPPM scheme. Optical and Quantum Electronics, 2022, 54, 1.	3.3	39
8	Long-Reach High-Capacity Hybrid MDM-OFDM-FSO Transmission Link Under the Effect of Atmospheric Turbulence. Wireless Personal Communications, 2019, 107, 1549-1571.	2.7	38
9	Performance Comparison of Different Modulation Schemes in High-Speed MDM Based Radio Over FSO Transmission Link Under the Effect of Atmospheric Turbulence Using Aperture Averaging. Wireless Personal Communications, 2020, 111, 825-842.	2.7	37
10	Modeling and Performance Analysis of 400 Gbps CO-OFDM Based Inter-satellite Optical Wireless Communication (IsOWC) System Incorporating Polarization Division Multiplexing with Enhanced Detection. Wireless Personal Communications, 2020, 111, 495-511.	2.7	37
11	A high-speed long-haul wavelength division multiplexing-based inter-satellite optical wireless communication link using spectral-efficient 2-D orthogonal modulation scheme. International Journal of Communication Systems, 2020, 33, e4293.	2.5	36
12	Performance investigation of high-speed FSO transmission system under the influence of different atmospheric conditions incorporating 3-D orthogonal modulation scheme. Optical and Quantum Electronics, 2019, 51, 1.	3.3	34
13	120 Gbps SAC-OCDMA-OAM-based FSO transmission system: Performance evaluation under different weather conditions. AEJ - Alexandria Engineering Journal, 2022, 61, 10407-10418.	6.4	34
14	Performance analysis of WDM-FSO system under adverse weather conditions. Photonic Network Communications, 2018, 36, 1-10.	2.7	32
15	Performance comparison of M-QAM and DQPSK modulation schemes in a 20 Gbit/s-40 GHz hybrid MDM-OFDM-based radio over FSO transmission system. Photonic Network Communications, 2019, 38, 378-389.	2.7	30
16	Millimeter-wave hybrid OFDM-MDM radio over free space optical transceiver for 5G services in desert environment. AEJ - Alexandria Engineering Journal, 2021, 60, 4275-4285.	6.4	29
17	A high-speed radio-over-free-space optics link using wavelength division multiplexing-mode division multiplexing-multibeam technique. Computers and Electrical Engineering, 2020, 87, 106779.	4.8	28
18	A long-haul 100 Gbps hybrid PDM/CO-OFDM FSO transmission system: Impact of climate conditions and atmospheric turbulence. AEJ - Alexandria Engineering Journal, 2021, 60, 785-794.	6.4	28

#	ARTICLE	IF	CITATIONS
19	Performance comparison of high-speed long-reach mode division multiplexing-based radio over free space optics transmission system using different modulation formats under the effect of atmospheric turbulence. <i>Optical Engineering</i> , 2019, 58, 1.	1.0	24
20	Performance analysis of 160 Gbit/s single-channel PDM-QPSK based inter-satellite optical wireless communication (IsOWC) system. <i>Wireless Networks</i> , 2020, 26, 3579-3590.	3.0	23
21	Rate aware congestion control mechanism for wireless sensor networks. <i>AEJ - Alexandria Engineering Journal</i> , 2022, 61, 4765-4777.	6.4	19
22	Performance Evaluation of a 4 – 20-Gbps OFDM-Based FSO Link Incorporating Hybrid W-MDM Techniques. <i>Frontiers in Physics</i> , 2021, 9, .	2.1	18
23	Design of 3.84 Tbps hybrid WDM-PDM based inter-satellite optical wireless communication (IsOWC) system using spectral efficient orthogonal modulation scheme. <i>Journal of Ambient Intelligence and Humanized Computing</i> , 2020, 11, 4167-4175.	4.9	17
24	A high-speed radio over free space optics transmission link under dust environment conditions employing hybrid wavelength- and mode-division multiplexing. <i>Wireless Networks</i> , 2021, 27, 4875-4888.	3.0	17
25	Performance analysis of 6 – 10 Gbps PDM-SAC-OCDMA-based FSO transmission using EDW codes with SPD detection. <i>Optik</i> , 2022, 264, 169415.	2.9	17
26	Simulative Analysis of an Inter-aircraft Optical Wireless Communication System Using Amplifier. <i>Journal of Optical Communications</i> , 2017, 38, 1-5.	4.7	16
27	2 – 10 Gbit/s – 10 GHz Radio over Free Space Optics Transmission System Incorporating Mode Division Multiplexing of Hermite Gaussian Modes. <i>Journal of Optical Communications</i> , 2023, 44, 495-503.	4.7	16
28	Performance Investigation of 1.6 Tbps Hybrid WDM-PDM-OFDM-based Free Space Optics Transmission Link. <i>Wireless Personal Communications</i> , 2021, 117, 2285-2309.	2.7	16
29	Enhanced Performance Analysis of Inter-aircraft Optical Wireless Communication Link (IsOWC) Using EDFA Pre-amplifier. <i>Wireless Personal Communications</i> , 2017, 97, 4199-4209.	2.7	11
30	Performance investigation of spectral-efficient high-speed inter-satellite optical wireless communication link incorporating polarization division multiplexing. <i>Optical and Quantum Electronics</i> , 2021, 53, 1.	3.3	11
31	Investigation of 340-Gbps terrestrial FSO link incorporating spectral-efficient DP-QPSK-PolSK hybrid modulation scheme. <i>Optical Engineering</i> , 2020, 59, .	1.0	11
32	A spectral-efficient 1 Tbps terrestrial free-space optics link based on super-channel transmission. <i>Optical and Quantum Electronics</i> , 2021, 53, 1.	3.3	10
33	Investigations on mode-division multiplexed free-space optical transmission for inter-satellite communication link. <i>Wireless Networks</i> , 2022, 28, 1003-1016.	3.0	10
34	Mitigating the Effects of Fog Attenuation in FSO Communication Link Using Multiple Transceivers and EDFA. <i>Journal of Optical Communications</i> , 2017, 38, 169-174.	4.7	9
35	Modeling and performance investigation of 4 × 20 Gbps underwater optical wireless communication link incorporating space division multiplexing of Hermite Gaussian modes. <i>Optical and Quantum Electronics</i> , 2020, 52, 1.	3.3	9
36	Performance Enhancement of 3 – 20 Gbit/s MDM-Based OFDM-FSO System. <i>Wireless Personal Communications</i> , 2022, 122, 3137-3165.	2.7	9

#	ARTICLE	IF	CITATIONS
37	Performance Investigation of a High Data Rate Mode Division Multiplexed-Free Space Optics Link Under Harsh Weather Conditions. <i>Frontiers in Physics</i> , 2021, 9, .	2.1	8
38	A High-Capacity Single-Channel MDM-OFDM-IsOWC Transmission Link with Improved Detection. <i>Wireless Personal Communications</i> , 2022, 123, 1987-2010.	2.7	8
39	Testing Solar-MAODV energy efficient model on various modulation techniques in wireless sensor and optical networks. <i>Wireless Networks</i> , 2022, 28, 413-425.	3.0	8
40	Enhanced Performance of the 4 Å– 20 Gbit/s-40ÅGHz OFDM-Based RoFSO Transmission Link Incorporating WDM-MDM of Hermite Gaussian and Laguerre Gaussian Modes. <i>Frontiers in Physics</i> , 0, 10, .	2.1	7
41	Enhanced Performance Analysis of Inter-aircraft Optical Wireless Communication Link Using Array of Photodetectors. <i>Journal of Optical Communications</i> , 2017, 39, 1-6.	4.7	5
42	Modeling and Performance Analysis of 10 Gbps Inter-satellite Optical Wireless Communication Link. <i>Journal of Optical Communications</i> , 2017, 39, .	4.7	5
43	Evaluation of FSO Link Using Array of Photodetectors. <i>Journal of Optical Communications</i> , 2017, 38, .	4.7	5
44	Performance investigation of a 3.84ÅTb/s WDM-based FSO transmission system incorporating 3-D orthogonal modulation scheme. <i>Photonic Network Communications</i> , 2021, 41, 177-188.	2.7	5
45	Improved Performance Analysis of Free Space Optics Communication Link under Rain Conditions using EDFA Pre-amplifier. <i>Journal of Optical Communications</i> , 2018, 39, 241-246.	4.7	4
46	Simulative Analysis of DWDM-Based Multiple-Beam FSO Communication Network under Adverse Weather Conditions. <i>Journal of Optical Communications</i> , 2018, 39, 401-405.	4.7	4
47	Enhanced Performance Analysis of 10â€†Gbit/sâ€†10â€†GHz OFDM-Based Radio over FSO Transmission System Incorporating ODSB and OSSB Modulation Schemes. <i>Journal of Optical Communications</i> , 2024, 44, s739-s749.	4.7	4
48	Downstream performance evaluation of a 4 \$\$\$imes\$\$\$ 112ÅGbps hybrid wavelength-polarization division multiplexed next generation-passive optical network. <i>Optical and Quantum Electronics</i> , 2022, 54, .	3.3	4
49	Simulative Investigation on the Effect of Different Parameters on the Performance of IsOWC System. <i>Journal of Optical Communications</i> , 2017, 38, .	4.7	3
50	Simulative Analysis of Inter-Satellite Optical Wireless Communication (IsOWC) Link with EDFA. <i>Journal of Optical Communications</i> , 2018, 39, 137-145.	4.7	3
51	A Review on Hybrid Optical Amplifiers. <i>Journal of Optical Communications</i> , 2018, 39, 267-272.	4.7	3
52	4â€‰Å–â€‰10 Gbps Hybrid WDM-MDM FSO Transmission Link. <i>Algorithms for Intelligent Systems</i> , 2021, , 443-451.	4.5	3
53	Development and Performance Investigation of a Single-Channel 160ÅGbps Free Space Optics Transmission Link Using Higher Order Modulation Scheme. <i>Wireless Personal Communications</i> , 2021, 118, 663-678.	2.7	3
54	Efficiency of Four Wave Mixing effect at different system parameters of an optical fiber WDM transmission link. , 2015, , .		2

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55	System investigations of few-mode erbium-doped fiber amplifier (FM-EDFA) for vortex mode amplifications. Journal of Computational Electronics, 2021, 20, 1549-1559.	2.5	2
56	A high-speed single-channel inter-satellite optical wireless communication link incorporating spectrum-efficient orthogonal modulation scheme. Microwave and Optical Technology Letters, 2020, 62, 4007-4014.	1.4	1
57	Study of Spectral-Efficient 400 Gbps FSO Transmission Link Derived from Hybrid PDM-16-QAM With CO-OFDM. Algorithms for Intelligent Systems, 2021, , 433-441.	0.6	1
58	Impact of Various Parameters on the Performance of Inter-aircraft Optical Wireless Communication Link. Journal of Optical Communications, 2017, 39, .	4.7	0
59	Performance Investigation of LG-SDM-FSO Transmission Link under Snow Weather Conditions. , 2021, , 129-140.		0
60	Finding an appropriate radio propagation model for rate aware congestion control mechanism in wireless sensor networks. Wireless Networks, 0, , .	3.0	0