## Shiva Kumar

List of Publications by Year in descending order

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501174 623699 46 797 14 28 citations h-index g-index papers 61 61 61 641 docs citations times ranked citing authors all docs

#	Article	IF	CITATIONS
1	Quasi-soliton propagation in dispersion-managed optical fibers. Optics Letters, 1997, 22, 372.	3.3	184
2	All-Optical Multihop Free-Space Optical Communication Systems. Journal of Lightwave Technology, 2011, 29, 2663-2669.	4.6	113
3	Raman Spectroscopy for In-Line Water Quality Monitoring—Instrumentation and Potential. Sensors, 2014, 14, 17275-17303.	3.8	71
4	Effect of dispersion on nonlinear phase noise in optical transmission systems. Optics Letters, 2005, 30, 3278.	3.3	45
5	Comparison of Split-Step Fourier Schemes for Simulating Fiber Optic Communication Systems. IEEE Photonics Journal, 2014, 6, 1-15.	2.0	40
6	Gordon–Haus effect in dispersion-managed soliton systems. Optics Letters, 1997, 22, 1870.	3.3	35
7	Influence of Raman effects in wavelength-division multiplexed soliton systems. Optics Letters, 1998, 23, 1450.	3.3	29
8	Optical backpropagation for fiber-optic communications using highly nonlinear fibers. Optics Letters, 2011, 36, 1038.	3.3	29
9	Analysis of Nonlinear Phase Noise in Coherent Fiber-Optic Systems Based on Phase Shift Keying. Journal of Lightwave Technology, 2009, 27, 4722-4733.	4.6	25
10	Correlated digital back propagation based on perturbation theory. Optics Express, 2015, 23, 14655.	3.4	21
11	Optical Back Propagation With Optimal Step Size for Fiber Optic Transmission Systems. IEEE Photonics Technology Letters, 2013, 25, 523-526.	2.5	20
12	Analytical modeling of cross-phase modulation in coherent fiber-optic system. Optics Express, 2014, 22, 1426.	3.4	16
13	A Raman-Pumped Dispersion and Nonlinearity Compensating Fiber For Fiber Optic Communications. IEEE Photonics Journal, 2020, 12, 1-17.	2.0	16
14	Compensation of third-order dispersion using time reversal in optical transmission systems. Optics Letters, 2007, 32, 346.	3.3	14
15	Modeling and Analysis of the Contribution of Channel Walk-Off to Nondegenerate and Degenerate Four-Wave-Mixing Noise in RZ-OOK Optical Transmission Systems. Journal of Lightwave Technology, 2006, 24, 4269-4285.	4.6	13
16	Brain-Inspired Intelligence for Real-Time Health Situation Understanding in Smart e-Health Home Applications. IEEE Access, 2019, 7, 180106-180126.	4.2	13
17	Digital Back Propagation With Optimal Step Size for Polarization Multiplexed Transmission. IEEE Photonics Technology Letters, 2013, 25, 2327-2330.	2.5	12
18	Intra-Channel Four-Wave Mixing Impairments in Dispersion-Managed Coherent Fiber-Optic Systems Based on Binary Phase-Shift Keying. Journal of Lightwave Technology, 2009, 27, 2916-2923.	4.6	10

#	Article	IF	CITATIONS
19	Optical implementation of orthogonal frequency-division multiplexing using time lenses. Optics Letters, 2008, 33, 2002.	3.3	9
20	Brain Inspired Dynamic System for the Quality of Service Control over the Long-Haul Nonlinear Fiber-Optic Link. Sensors, 2019, 19, 2175.	3.8	9
21	Modeling Interchannel FWM With Walk-Off in RZ-DPSK Single Span Links. Journal of Lightwave Technology, 2008, 26, 2142-2154.	4.6	7
22	Analytical modeling of a single channel nonlinear fiber optic system based on QPSK. Optics Express, 2012, 20, 27740.	3.4	7
23	FDTD-Based Adjoint Sensitivity Analysis of High-Frequency Nonlinear Structures. IEEE Transactions on Antennas and Propagation, 2020, 68, 4727-4737.	5.1	7
24	Free Space Ground to Satellite Optical Communications Using Kramers–Kronig Transceiver in the Presence of Atmospheric Turbulence. Sensors, 2022, 22, 3435.	3.8	7
25	Natural Brain-Inspired Intelligence for Non-Gaussian and Nonlinear Environments with Finite Memory. Applied Sciences (Switzerland), 2020, 10, 1150.	2.5	6
26	Natural Brain-Inspired Intelligence for Screening in Healthcare Applications. IEEE Access, 2021, 9, 67957-67973.	4.2	6
27	Smart long-haul fiber optic communication systems using brain-like intelligence. , 2019, , .		5
28	Brain-Inspired Cognitive Decision Making for Nonlinear and Non-Gaussian Environments. IEEE Access, 2019, 7, 180910-180922.	4.2	5
29	Nonlinear Electronic Dispersion Compensation Techniques for Fiber-Optic Communication Systems. , 2008, , .		4
30	Analysis of intrachannel impairments in differential phase-shift keying transmission systems. Optics Letters, 2005, 30, 2053.	3.3	2
31	Second-order theory for nonlinear phase noise in coherent fiber-optic system based on phase shift keying. , 2011, , .		2
32	Cognitive decision making for the long-haul fiber optic communication systems. , 2019, , .		2
33	Adjoint sensitivity analysis approach for the nonlinear SchrĶdinger equation. Optics Letters, 2019, 44, 3940.	3.3	2
34	Software-Defined Fiber Optic Communications for Ultrahigh-Speed Optical Pulse Transmission Systems. IEEE Journal of Selected Topics in Quantum Electronics, 2022, 28, 1-10.	2.9	2
35	Electronic Dispersion Compensation Based on Maximum-Likelihood Sequence Estimation for 10 Gb/s Fiber-Optic Communication Systems. LEOS Summer Topical Meeting, 2007, , .	0.0	1
36	Application of nonlinear MLSE based on Volterra theory in NZ-DSF optical communication systems. , 2008, , .		1

#	Article	lF	CITATIONS
37	A multi-core or multi-fiber WDM System. , 2012, , .		1
38	BER calculation of a single channel nonlinear fiber optic transmission system based on QPSK. , 2012, , .		1
39	Mitigation of fiber linear and nonlinear effects in coherent optical communication systems., 2015,,.		1
40	Nonlinear neural network equalizer for metro optical fiber communication systems. , 2018, , .		1
41	Enhanced-power NFDM transmission system with midpoint optical phase conjugation. Optics Letters, 2020, 45, 4682.	3.3	1
42	Adaptive digital back propagation exploiting adjoint-based optimization for fiber-optic communications. Optics Express, 2022, 30, 16264.	3.4	1
43	Analysis of Nonlinear Phase Noise in Dispersion Unmanaged Fiber-Optic Systems. , 2018, , .		O
44	ANN-Based Mitigation of Optical Fiber Nonlinear Distortions in Data Center Networks., 2018,,.		0
45	Multi-Stage Perturbation Technique Based Nonlinear Fourier Transform for Fiber Optic Systems. , 2018, , .		0
46	Optical Back Propagation For Fiber Optic Communication Systems. , 2021, , .		0