Moshe Tur

List of Publications by Year
in descending order

81 papers	7,903 citations	185998 28 h-index	155451 55 g-index
83 all docs	83 docs citations	83 times ranked	4936 citing authors

#	Article	IF	Citations
1	Demonstration of QPSK data correlation and equalization using a tunable optical tapped delay line based on orbital angular momentum mode delays. Optics Communications, 2022, 503, 127438.	1.0	2
2	Demonstration of Turbulence Resiliency in a Mode-, Polarization-, and Wavelength-Multiplexed Free-Space Optical Link Using Pilot-Assisted Optoelectronic Beam Mixing. Journal of Lightwave Technology, 2022, 40, 588-596.	2.7	14
3	Experimental Demonstration of Sub-THz Wireless Communications Using Multiplexing of Laguerre-Gaussian Beams When Varying two Different Modal Indices. Journal of Lightwave Technology, 2022, 40, 3285-3292.	2.7	13
4	Distorted Acquisition of Dynamic Events Sensed by Frequency-Scanning Fiber-Optic Interrogators and a Mitigation Strategy. Sensors, 2022, 22, 2403.	2.1	1
5	Experimental Demonstration of a 100-Gbit/s 16-QAM Free-Space Optical Link Using a Structured Optical â€œBottle Beamâ€•to Circumvent Obstructions. Journal of Lightwave Technology, 2022, 40, 3277-3284.	2.7	2
6	Single-pixel identification of 2-dimensional objects by using complex Laguerreâ€"Gaussian spectrum containing both azimuthal and radial modal indices. Optics Communications, 2021, 481, 126557.	1.0	8
7	An Experimental Benchmark of a Very FlexibleWing. , 2021, , .		9
8	Modal coupling and crosstalk due to turbulence and divergence on free space THz links using multiple orbital angular momentum beams. Scientific Reports, 2021, 11, 2110.	1.6	21
9	Photon Acceleration Using a Time-Varying Epsilon-near-Zero Metasurface. ACS Photonics, 2021, 8, 716-720.	3.2	24
10	Perspectives on advances in high-capacity, free-space communications using multiplexing of orbital-angular-momentum beams. APL Photonics, 2021, 6, .	3.0	53
11	Adiabatic Frequency Conversion Using a Time-Varying Epsilon-Near-Zero Metasurface. Nano Letters, 2021, 21, 5907-5913.	4.5	30
12	Turbulence-resilient pilot-assisted self-coherent free-space optical communications using automatic optoelectronic mixing of many modes. Nature Photonics, 2021, 15, 743-750.	15.6	45
13	Simultaneous turbulence mitigation and channel demultiplexing using a single multi-plane light convertor for a free-space optical link with two 100-Gbit/s OAM channels. Optics Communications, 2021, 501, 127359.	1.0	7
14	Observation of anti-parity-time-symmetry, phase transitions and exceptional points in an optical fibre. Nature Communications, 2021, 12, 486.	5.8	59
15	Experimental Demonstration of Free-Space sub-THz Communications Link Using Multiplexing of Beams Having Two Different LG Modal Indices. , 2021, , .		1
16	Experimental Demonstration of a 100-Gbit/s 16-QAM Free-Space Optical Link Using a Structured Optical "Bottle Beam" to Circumvent Obstructions. , 2021, , .		1
17	Demonstration of a Tunable Optical Correlation of a 10â€"15 Gbaud QPSK Data Signal using Nonlinear Wave Mixing at a Remotely Controlled Node. , 2021, , .		2
18	Demonstration of Tunable Optical Aggregation of QPSK to 16-QAM Over Optically Generated Nyquist Pulse Trains Using Nonlinear Wave Mixing and a Kerr Frequency Comb. Journal of Lightwave Technology, 2020, 38, 359-365.	2.7	23

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19	Gain Spectrum Engineering in Slope-Assisted Dynamic Brillouin Optical Time-Domain Analysis. Journal of Lightwave Technology, 2020, 38, 6967-6975.	2.7	11
20	Dynamic spatiotemporal beams that combine two independent and controllable orbital-angular-momenta using multiple optical-frequency-comb lines. Nature Communications, 2020, 11, 4099.	5.8	25
21	Simultaneous turbulence mitigation and channel demultiplexing for two 100‰‰Gbit/s orbital-angular-momentum multiplexed beams by adaptive wavefront shaping and diffusing. Optics Letters, 2020, 45, 702.	1.7	6
22	Demonstration of Turbulence Resiliency in a Mode-, Polarization-, and Wavelength-Multiplexed Free-Space Optical Link using Pilot Tones and Optoelectronic Wave Mixing. , 2020, , .		2
23	Generation of Pulses with Dynamic Polarization Evolution Using Time-Varying Epsilon-Near-Zero Metasurface. , 2020, , .		0
24	Nonlinear Response of ENZ Plasmon Modes near 1550 nm. , 2020, , .		0
25	Dynamic Measurements of 1000 Microstrains Using Chirped-Pulse Phase-Sensitive Optical Time-Domain Reflectometry. Journal of Lightwave Technology, 2019, 37, 4888-4895.	2.7	33
26	Demonstration of Multiple Kerr-Frequency-Comb Generation Using Different Lines From Another Kerr Comb Located Up To 50 km Away. Journal of Lightwave Technology, 2019, 37, 579-584.	2.7	15
27	Switchable detector array scheme to reduce the effect of single-photon detector's deadtime in a multi-bit/photon quantum link. Optics Communications, 2019, 441, 132-137.	1.0	0
28	"Hiding" a Low-Intensity 50-Gbit/s QPSK Free-Space Optical Beam That Co-Axially Propagates on the Same Wavelength with a High-Intensity 50-Gbit/s QPSK Optical Beam using Orthogonal Mode Multiplexing. , 2019, , .		0
29	Optical Mitigation of Interchannel Crosstalk for Multiple Spectrally Overlapped 20-GBd QPSK/16-QAM WDM Channels Using Nonlinear Wave Mixing. Journal of Lightwave Technology, 2019, 37, 548-554.	2.7	6
30	All-Optical Signal Processing Techniques for Flexible Networks. Journal of Lightwave Technology, 2019, 37, 21-35.	2.7	71
31	Single-End Adaptive Optics Compensation for Emulated Turbulence in a Bi-Directional 10-Mbit/s per Channel Free-Space Quantum Communication Link Using Orbital-Angular-Momentum Encoding. Research, 2019, 2019, 8326701.	2.8	21
32	Single-End Adaptive Optics Compensation for Emulated Turbulence in a Bi-Directional 10-Mbit/s per Channel Free-Space Quantum Communication Link Using Orbital-Angular-Momentum Encoding. Research, 2019, 2019, 1-10.	2.8	1
33	Reconfigurable Channel Slicing and Stitching for an Optical Signal to Enable Fragmented Bandwidth Allocation Using Nonlinear Wave Mixing and an Optical Frequency Comb. Journal of Lightwave Technology, 2018, 36, 440-446.	2.7	24
34	Scalable and Reconfigurable Optical Tap-Delay-Line for Multichannel Equalization and Correlation of 20-Gbaud QPSK Signals using Nonlinear Wave Mixing and a Microresonator Kerr Frequency Comb. , 2018, , .		0
35	MIMO Equalization to Mitigate Turbulence in a 2-Channel 40-Gbit/s QPSK Free-Space Optical 100-m Round-Trip Orbital-Angular-Momentum-Multiplexed Link Between a Ground Station and a Retro-Reflecting UAV. , 2018, , .		4
36	Brillouin Dynamic Gratings—A Practical Form of Brillouin Enhanced Four Wave Mixing in Waveguides: The First Decade and Beyond. Sensors, 2018, 18, 2863.	2.1	19

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37	Inherent Signal Distortion in Dynamic Fiber-optic Interrogators Employing Frequency Scanning. , 2018, , .		1
38	Recent advances in high-capacity free-space optical and radio-frequency communications using orbital angular momentum multiplexing. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2017, 375, 20150439.	1.6	131
39	Line-of-Sight Millimeter-Wave Communications Using Orbital Angular Momentum Multiplexing Combined With Conventional Spatial Multiplexing. IEEE Transactions on Wireless Communications, 2017, 16, 3151-3161.	6.1	130
40	High-Capacity Free-Space Optical Communications Between a Ground Transmitter and a Ground Receiver via a UAV Using Multiplexing of Multiple Orbital-Angular-Momentum Beams. Scientific Reports, 2017, 7, 17427.	1.6	81
41	Orbital Angular Momentum-based Space Division Multiplexing for High-capacity Underwater Optical Communications. Scientific Reports, 2016, 6, 33306.	1.6	156
42	Mode-Division-Multiplexing of Multiple Bessel-Gaussian Beams Carrying Orbital-Angular-Momentum for Obstruction-Tolerant Free-Space Optical and Millimetre-Wave Communication Links. Scientific Reports, 2016, 6, 22082.	1.6	63
43	Multipath Effects in Millimetre-Wave Wireless Communication using Orbital Angular Momentum Multiplexing. Scientific Reports, 2016, 6, 33482.	1.6	37
44	Demonstration of Tunable Steering and Multiplexing of Two 28â€‰GHz Data Carrying Orbital Angular Momentum Beams Using Antenna Array. Scientific Reports, 2016, 6, 37078.	1.6	20
45	32-Gbit/s 60-GHz millimeter-wave wireless communication using orbital angular momentum and polarization multiplexing. , 2016, , .		29
46	Increasing the Measurement Dynamic Range of Rayleigh-Based OFDR Interrogator Using an Amplifying Add-On Module. IEEE Photonics Technology Letters, 2016, 28, 2621-2624.	1.3	4
47	Coding-Enhanced Ultrafast and Distributed Brillouin Dynamic Gratings Sensing Using Coherent Detection. Journal of Lightwave Technology, 2016, 34, 5593-5600.	2.7	17
48	True Time Delay in Phased Arrays. Proceedings of the IEEE, 2016, 104, 504-518.	16.4	142
49	[INVITED] State of the art of Brillouin fiber-optic distributed sensing. Optics and Laser Technology, 2016, 78, 81-103.	2.2	299
50	Mode division multiplexing using an orbital angular momentum mode sorter and MIMO-DSP over a graded-index few-mode optical fibre. Scientific Reports, 2015, 5, 14931.	1.6	216
51	Experimental measurements of multipath-induced intra- and inter-channel crosstalk effects in a millimeter-wave communications link using orbital-angular-momentum multiplexing. , 2015, , .		18
52	Brillouin-based distributed fiber-optic sensing: From the static to the dynamic regime. , 2015, , .		1
53	Performance metrics and design considerations for a free-space optical orbital-angular-momentumâ€“multiplexed communication link. Optica, 2015, 2, 357.	4.8	164
54	Turbulence compensation of an orbital angular momentum and polarization-multiplexed link using a data-carrying beacon on a separate wavelength. Optics Letters, 2015, 40, 2249.	1.7	46

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55	Frequency-Scanning BOTDA With Ultimately Fast Acquisition Speed. IEEE Photonics Technology Letters, 2015, 27, 1426-1429.	1.3	107
56	Extending the Dynamic Range of Sweep-Free Brillouin Optical Time-Domain Analyzer. Journal of Lightwave Technology, 2015, 33, 2978-2985.	2.7	16
57	Experimental demonstration of 16-Gbit/s millimeter-wave communications link using thin metamaterial plates to generate data-carrying orbital-angular-momentum beams. , 2015, , .		17
58	Dynamic and Distributed Slope-Assisted Fiber Strain Sensing Based on Optical Time-Domain Analysis of Brillouin Dynamic Gratings. Journal of Lightwave Technology, 2015, 33, 2611-2616.	2.7	33
59	Performance metrics and design parameters for an FSO communications link based on multiplexing of multiple orbital-angular-momentum beams. , 2014, , .		6
60	Optical channel de-aggregator of 30-Gbaud QPSK and 20-Gbaud 8-PSK data using mapping onto constellation axes. , 2014, , .		3
61	Adaptive-optics-based simultaneous pre- and post-turbulence compensation of multiple orbital-angular-momentum beams in a bidirectional free-space optical link. Optica, 2014, 1, 376.	4.8	177
62	Demonstration of 8-mode 32-Gbit/s millimeter-wave free-space communication link using 4 orbital-angular-momentum modes on 2 polarizations. , 2014, , .		11
63	High-capacity millimetre-wave communications with orbital angular momentum multiplexing. Nature Communications, 2014, 5, 4876.	5.8	972
64	Pump-Power-Independent Double Slope-Assisted Distributed and Fast Brillouin Fiber-Optic Sensor. IEEE Photonics Technology Letters, 2014, 26, 797-800.	1.3	62
65	Wideband phased arrays with true time delay beamformers challenges and progress. , 2014, , .		7
66	Atmospheric turbulence effects on the performance of a free space optical link employing orbital angular momentum multiplexing. Optics Letters, 2013, 38, 4062.	1.7	233
67	Fast Brillouin optical time domain analysis for dynamic sensing. Optics Express, 2012, 20, 8584.	1.7	262
68	High-Speed Correlation and Equalization Using a Continuously Tunable All-Optical Tapped Delay Line. IEEE Photonics Journal, 2012, 4, 1220-1235.	1.0	28
69	Terabit free-space data transmission employing orbital angular momentum multiplexing. Nature Photonics, 2012, 6, 488-496.	15.6	3,471
70	Tapped delay-line matched filtering using a high-contrast grating hollow-core waveguide. , 2011, , .		0
71	SBS-Based Fiber Optical Sensing Using Frequency-Domain Simultaneous Tone Interrogation. Journal of Lightwave Technology, 2011, 29, 1729-1735.	2.7	58
72	Slope-assisted fast distributed sensing in optical fibers with arbitrary Brillouin profile. Optics Express, 2011, 19, 19845.	1.7	205

#	ARTICLE	IF	CITATIONS
73	Construction of photonic rotman-lens module for radar phased array antennas. , 2011, , .		0
74	Generation and Detection of Ultra-Wideband Waveforms Using Stimulated Brillouin Scattering Amplified Spontaneous Emission. IEEE Photonics Technology Letters, 2010, 22, 1692-1694.	1.3	14
75	Photonic Beamformer Receiver With Multiple Beam Capabilities. IEEE Photonics Technology Letters, 2010, 22, 1723-1725.	1.3	38
76	Sensor Multiplexing Based on a Finite-Impulse Response Lattice of Unbalanced Interferometers. Journal of Lightwave Technology, 2009, 27, 4250-4255.	2.7	2
77	Submicrosecond Scan-Angle Switching Photonic Beamformer With Flat RF Response in the C and X Bands. Journal of Lightwave Technology, 2008, 26, 2774-2781.	2.7	36
78	Characterization of Mode Coupling in Few-Mode Fibers Using Optical Low-Coherence Reflectometry. , 2008, , .		4
79	All-Optical Polarization Control Through Brillouin Amplification. , 2008, , .		20
80	Effect of Nonlinearities on PMD. Journal of Lightwave Technology, 2006, 24, 4100-4107.	2.7	7
81	Demonstration of turbulence mitigation in a 200-Gbit/s orbital-angular-momentum multiplexed free-space optical link using simple power measurements for determining the modal crosstalk matrix. Optics Letters, 0, , .	1.7	4