

Avi Zadok

List of Publications by Year in descending order

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85
papers

2,561
citations

186265

28
h-index

189892

50
g-index

85
all docs

85
docs citations

85
times ranked

1214
citing authors

#	ARTICLE	IF	CITATIONS
1	Interpolarization Forward Stimulated Brillouin Scattering in Standard Single-Mode Fibers. Laser and Photonics Reviews, 2022, 16, 2100337.	8.7	14
2	Analysis of thin layers using surface acoustic wave-photonic devices in silicon-on-insulator. Optics Express, 2022, 30, 6949.	3.4	3
3	Direct time-of-flight distributed analysis of nonlinear forward scattering. Optica, 2022, 9, 419.	9.3	9
4	Robust Directional Couplers for State Manipulation in Silicon Photonic-Integrated Circuits. Journal of Lightwave Technology, 2022, 40, 7634-7639.	4.6	4
5	Surface acoustic wave photonic filters with a single narrow radio-frequency passband in standard silicon on insulator. Photonics Research, 2022, 10, 1723.	7.0	5
6	A forward Brillouin fibre laser. Nature Communications, 2022, 13, .	12.8	8
7	Forward Stimulated Brillouin Scattering Analysis of Optical Fibers Coatings. Journal of Lightwave Technology, 2021, 39, 1800-1807.	4.6	26
8	Opto-Mechanical Fiber Sensing of Gamma Radiation. Journal of Lightwave Technology, 2021, 39, 6637-6645.	4.6	19
9	Integrated Discrete-Time Surface Acoustic Wave Photonic Radio-Frequency Filters with Arbitrary Tap Weights. , 2021, , .		0
10	Inter-Modal Forward Stimulated Brillouin Scattering and Non-Reciprocity in Standard Polarization Maintaining Fiber. , 2021, , .		0
11	Surface acoustic microwave photonic filters in standard silicon-on-insulator. Optica, 2021, 8, 697.	9.3	11
12	Forward stimulated Brillouin scattering and opto-mechanical non-reciprocity in standard polarization maintaining fibres. Light: Science and Applications, 2021, 10, 119.	16.6	35
13	Observation of anti-parity-time-symmetry, phase transitions and exceptional points in an optical fibre. Nature Communications, 2021, 12, 486.	12.8	59
14	Opto-Mechanical Inter-Core Crosstalk in Multi-Core Fibers. , 2021, , .		0
15	Multiple return analysis for noncoherent pulse compression of periodic coded waveforms. , 2021, , .		0
16	Opto-Mechanical Interactions in Multi-Core Optical Fibers and Their Applications. IEEE Journal of Selected Topics in Quantum Electronics, 2020, 26, 1-13.	2.9	13
17	Integrated High-Resolution Optical Spectrum Analyzer With Broad Operational Bandwidth. IEEE Photonics Technology Letters, 2020, 32, 1061-1064.	2.5	5
18	Surface-Acoustic-Wave Modulation of a Silicon-on-Insulator Defect Bragg Grating. , 2020, , .		1

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19	Surface-Acoustic-Wave Characterization of Thin Layer Deposition on a Standard Silicon-Photonic Circuit. , 2020, , .		1
20	Distributed cladding mode fiber-optic sensor. Optica, 2020, 7, 85.	9.3	25
21	Sequence-coded coherent laser ranging with high detection sensitivity. OSA Continuum, 2020, 3, 1274.	1.8	6
22	Surface Acoustic Wave Integrated-Photonic Radio-Frequency Filters with Arbitrary Complex Tap Coefficients. , 2020, , .		0
23	Surface acoustic wave photonic devices in silicon on insulator. Nature Communications, 2019, 10, 4214.	12.8	54
24	Eight-Channel Silicon-Photonic Wavelength Division Multiplexer With 17 GHz Spacing. IEEE Journal of Selected Topics in Quantum Electronics, 2019, 25, 1-10.	2.9	28
25	Sinc-shaped, Nyquist Channel Demultiplexing with Silicon Photonics. , 2019, , .		0
26	Distributed opto-mechanical analysis of liquids outside standard fibers coated with polyimide. APL Photonics, 2019, 4, .	5.7	37
27	An Integrated Discrete-Time Microwave Photonic Filter Using Surface Acoustic Waves in Silicon. , 2019, , .		0
28	Ultra-narrowband integrated Brillouin laser. Nature Photonics, 2019, 13, 9-10.	31.4	7
29	Silicon-Photonic Dense 8-Channel Multiplexer Using Auto-Regressive Moving-Average Filters. , 2018, , .		2
30	Invited Article: Distributed analysis of nonlinear wave mixing in fiber due to forward Brillouin scattering and Kerr effects. APL Photonics, 2018, 3, .	5.7	19
31	Phase-Coded and Noise-Based Brillouin Optical Correlation-Domain Analysis. Applied Sciences (Switzerland), 2018, 8, 1482.	2.5	12
32	Highly-coherent stimulated phonon oscillations in a multi-core optical fiber. Scientific Reports, 2018, 8, 9514.	3.3	20
33	Four-wave mixing and nonlinear parameter measurement in a gallium-nitride ridge waveguide. Optical Materials Express, 2018, 8, 66.	3.0	22
34	Optomechanical time-domain reflectometry. Nature Communications, 2018, 9, 2991.	12.8	89
35	Sensing Outside Polyimide-Coated Fibers Using Guided Acoustic Waves Brillouin Scattering. , 2018, , .		4
36	Opto-Mechanical Point Sensing in a Multi-Core Fiber. , 2018, , .		2

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37	Electro-opto-mechanical radio-frequency oscillator driven by guided acoustic waves in standard single-mode fiber. APL Photonics, 2017, 2, 041303.	5.7	23
38	Electro-opto-mechanical oscillator in standard fiber. , 2017, , .		0
39	Opto-mechanical inter-core cross-talk in multi-core fibers. Optica, 2017, 4, 289.	9.3	48
40	Brillouin Optical Correlation Domain Analysis in Composite Material Beams. Sensors, 2017, 17, 2266.	3.8	4
41	Guided acoustic waves Brillouin scattering in multi-core optical fibers. , 2017, , .		0
42	Double-pulse pair Brillouin optical correlation-domain analysis. Optics Express, 2016, 24, 26867.	3.4	17
43	High-resolution Brillouin optical correlation domain analysis with no spectral scanning. Optics Express, 2016, 24, 27253.	3.4	16
44	Optomechanical sensing of liquids outside standard fibers using forward stimulated Brillouin scattering. Optica, 2016, 3, 510.	9.3	149
45	Fiber-Optic Evaporation Sensing: Monitoring Environmental Conditions and Urinalysis. Journal of Lightwave Technology, 2016, 34, 4486-4492.	4.6	6
46	Brillouin Optical Correlation Domain Analysis Addressing 440 000 Resolution Points. Journal of Lightwave Technology, 2016, 34, 4421-4429.	4.6	32
47	Advanced applications of stimulated Brillouin scattering in optical communications. , 2015, , .		0
48	High-Q ring resonators directly written in As ₂ S ₃ chalcogenide glass films. Photonics Research, 2015, 3, 63.	7.0	18
49	Direct observation of patterned self-assembled monolayers and bilayers on silica-on-silicon surfaces. Optical Materials Express, 2015, 5, 149.	3.0	1
50	Brillouin time-domain and correlation-domain analyses combined. , 2014, , .		1
51	Monitoring and analysis of pendant droplets evaporation using bare and monolayer-coated optical fiber facets. Optical Materials Express, 2014, 4, 903.	3.0	20
52	High-resolution long-reach distributed Brillouin sensing based on combined time-domain and correlation-domain analysis. Optics Express, 2014, 22, 6453.	3.4	128
53	High-resolution long-range distributed Brillouin analysis using dual-layer phase and amplitude coding. Optics Express, 2014, 22, 27144.	3.4	83
54	Brillouin optical correlation domain analysis with 4 millimeter resolution based on amplified spontaneous emission. Optics Express, 2014, 22, 12070.	3.4	125

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55	Tunable sharp and highly selective microwave-photonic band-pass filters based on stimulated Brillouin scattering. Photonics Research, 2014, 2, B18.	7.0	90
56	Frequency-selective filtering and analysis of radio-over-fiber using stimulated Brillouin scattering. , 2013, , .		1
57	Tunable generation of ultra-narrow linewidth millimeter and THz-waves and their modulation at 40 Gbd. , 2013, , .		1
58	Tunable microwave-photonic filter using frequency-to-time mapping-based delay lines. Optics Express, 2013, 21, 21702.	3.4	13
59	Experimental demonstration of localized Brillouin gratings with low off-peak reflectivity established by perfect Golomb codes. Optics Letters, 2013, 38, 4701.	3.3	83
60	Monitoring the Evaporation of Fluids from Fiber-Optic Micro-Cell Cavities. Sensors, 2013, 13, 15261-15273.	3.8	33
61	Generation of ultra-narrow, stable and tunable millimeter- and terahertz- waves with very low phase noise. Optics Express, 2013, 21, 23950.	3.4	42
62	Incoherent compression of complementary code pairs for laser ranging and detection. , 2013, , .		4
63	Enhancement of spectral resolution and optical rejection ratio of Brillouin optical spectral analysis using polarization pulling. Optics Express, 2012, 20, 14734.	3.4	55
64	Continuously variable long microwave-photonic delay of arbitrary frequency-chirped signals. Optics Letters, 2012, 37, 3939.	3.3	3
65	Stimulated Brillouin scattering amplification in centimeter-long directly written chalcogenide waveguides. Optics Letters, 2012, 37, 5112.	3.3	18
66	Low-noise delays from dynamic Brillouin gratings based on perfect Golomb coding of pump waves. Optics Letters, 2012, 37, 5259.	3.3	89
67	Coherent optical (CO) OFDM system based on the wavelet packet transform (WPT). , 2012, , .		0
68	High-Resolution Low-Sidelobe Laser Ranging Based on Incoherent Pulse Compression. IEEE Photonics Technology Letters, 2012, 24, 2119-2121.	2.5	75
69	All-optical storage and processing in optical fibers. , 2012, , .		0
70	Random access distributed fiber sensing. Laser and Photonics Reviews, 2012, 6, L1.	8.7	131
71	Low-Distortion Long Variable Delay of Linear Frequency Modulated Waveforms. IEEE Photonics Journal, 2012, 4, 499-503.	2.0	2
72	Sharp tunable optical filters based on the polarization attributes of stimulated Brillouin scattering. Optics Express, 2011, 19, 21945.	3.4	62

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73	Dual-pump push-pull polarization control using stimulated Brillouin scattering. Optics Express, 2011, 19, 25873.	3.4	37
74	Photonic Generation of Ultra-Wideband Signals via Pulse Compression in a Highly Nonlinear Fiber. IEEE Photonics Technology Letters, 2010, 22, 239-241.	2.5	15
75	Generation and Detection of Ultra-Wideband Waveforms Using Stimulated Brillouin Scattering Amplified Spontaneous Emission. IEEE Photonics Technology Letters, 2010, 22, 1692-1694.	2.5	14
76	Reconfigurable Generation of High-Order Ultra-Wideband Waveforms Using Edge Detection. Journal of Lightwave Technology, 2010, 28, 2207-2212.	4.6	11
77	Electrically pumped hybrid evanescent Si/InGaAsP lasers. Optics Letters, 2009, 34, 1345.	3.3	93
78	Polarization-induced distortion in stimulated Brillouin scattering slow-light systems. Optics Letters, 2009, 34, 2530.	3.3	15
79	Birefringence-Induced Trains of High-Rate Pulses in a Mode-Locked Fiber Laser. IEEE Photonics Journal, 2009, 1, 128-134.	2.0	3
80	Secure key generation using an ultra-long fiber laser: transient analysis and experiment. Optics Express, 2008, 16, 16680.	3.4	44
81	Vector analysis of stimulated Brillouin scattering amplification in standard single-mode fibers. Optics Express, 2008, 16, 21692.	3.4	240
82	Gigahertz-Wide Optically Reconfigurable Filters Using Stimulated Brillouin Scattering. Journal of Lightwave Technology, 2007, 25, 2168-2174.	4.6	62
83	Optically Controlled Low-Distortion Delay of GHz-Wide Radio-Frequency Signals Using Slow Light in Fibers. IEEE Photonics Technology Letters, 2007, 19, 462-464.	2.5	39
84	Extended delay of broadband signals in stimulated Brillouin scattering slow light using synthesized pump chirp. Optics Express, 2006, 14, 8498.	3.4	74
85	Polarimetric Characterization of RF Spectra at the Output of Linear Optical Systems. Journal of Lightwave Technology, 2006, 24, 4138-4148.	4.6	1