Radan SlavÃk

List of Publications by Year in descending order

63 papers	2,157 citations	361413 20 h-index	233421 45 g-index
63 all docs	63 docs citations	63 times ranked	1593 citing authors

#	Article	IF	Citations
1	All-optical phase and amplitude regenerator for next-generation telecommunications systems. Nature Photonics, 2010, 4, 690-695.	31.4	595
2	Towards high-capacity fibre-optic communications at the speed of light in vacuum. Nature Photonics, 2013, 7, 279-284.	31.4	289
3	Multilevel quantization of optical phase in a novel coherent parametric mixer architecture. Nature Photonics, 2011, 5, 748-752.	31.4	145
4	Optical Injection Locking: From Principle to Applications. Journal of Lightwave Technology, 2020, 38, 43-59.	4.6	108
5	Antiresonant Hollow Core Fiber With an Octave Spanning Bandwidth for Short Haul Data Communications. Journal of Lightwave Technology, 2017, 35, 437-442.	4.6	96
6	Ultralow thermal sensitivity of phase and propagation delay in hollow core optical fibres. Scientific Reports, 2015, 5, 15447.	3.3	75
7	High-Capacity Directly Modulated Optical Transmitter for 2-Î¼m Spectral Region. Journal of Lightwave Technology, 2015, 33, 1373-1379.	4.6	65
8	Multi-kilometer Long, Longitudinally Uniform Hollow Core Photonic Bandgap Fibers for Broadband Low Latency Data Transmission. Journal of Lightwave Technology, 2016, 34, 104-113.	4.6	64
9	24â€“26â€‰â€‰GHz radio-over-fiber and free-space optics for fifth-generation systems. Optics Letters, 2018, 43, 1035.	3.3	57
10	How to make the propagation time through an optical fiber fully insensitive to temperature variations. Optica, 2017, 4, 659.	9.3	49
11	Homodyne OFDM with Optical Injection Locking for Carrier Recovery. Journal of Lightwave Technology, 2015, 33, 34-41.	4.6	47
12	Nonlinearity-Free Coherent Transmission in Hollow-Core Antiresonant Fiber. Journal of Lightwave Technology, 2019, 37, 909-916.	4.6	43
13	Low loss and high performance interconnection between standard single-mode fiber and antiresonant hollow-core fiber. Scientific Reports, 2021, 11, 8799.	3.3	42
14	Backscattering in antiresonant hollow-core fibers: over 40â€‰â€‰dB lower than in standard optical fibers. Optica, 2021, 8, 216.	9.3	41
15	Modulator-free quadrature amplitude modulation signal synthesis. Nature Communications, 2014, 5, 5911.	12.8	31
16	Low-Loss and Low-Back-Reflection Hollow-Core to Standard Fiber Interconnection. IEEE Photonics Technology Letters, 2019, 31, 723-726.	2.5	27
17	Optical injection locking-based amplification in phase-coherent transfer of optical frequencies. Optics Letters, 2015, 40, 4198.	3.3	26
18	Lotus-Shaped Negative Curvature Hollow Core Fiber With 10.5 dB/km at 1550 nm Wavelength. Journal of Lightwave Technology, 2018, 36, 1213-1219.	4.6	26

#	Article	IF	Citations
19	Record Low-Loss 1.3dB/km Data Transmitting Antiresonant Hollow Core Fibre. , 2018, , .		25
20	Optical Fourier synthesis of high-repetition-rate pulses. Optica, 2015, 2, 18.	9.3	23
21	Temperature insensitive fiber interferometry. Optics Letters, 2019, 44, 2768.	3.3	21
22	Long-Length and Thermally Stable High-Finesse Fabry-Perot Interferometers Made of Hollow Core Optical Fiber. Journal of Lightwave Technology, 2020, 38, 2423-2427.	4.6	19
23	Stable and Efficient Generation of High Repetition Rate ($>$160 GHz) Subpicosecond Optical Pulses. IEEE Photonics Technology Letters, 2011, 23, 540-542.	2.5	15
24	Processing of optical combs with fiber optic parametric amplifiers. Optics Express, 2012, 20, 10059.	3.4	15
25	The Thermal Phase Sensitivity of Both Coated and Uncoated Standard and Hollow Core Fibers Down to Cryogenic Temperatures. Journal of Lightwave Technology, 2020, 38, 2477-2484.	4.6	15
26	Demonstration of opposing thermal sensitivities in hollow-core fibers with open and sealed ends. Optics Letters, 2019, 44, 4367.	3.3	15
27	Feed-forward true carrier extraction of high baud rate phase shift keyed signals using photonic modulation stripping and low-bandwidth electronics. Optics Express, 2011, 19, 26594.	3.4	12
28	Hollow-core fibres for temperature-insensitive fibre optics and its demonstration in an Optoelectronic oscillator. Scientific Reports, 2018, 8, 18015.	3.3	12
29	Low Thermal Sensitivity Hollow Core Fiber for Optically-Switched Data Centers. Journal of Lightwave Technology, 2020, 38, 2703-2709.	4.6	12
30	Thinly coated hollow core fiber for improved thermal phase-stability performance. Optics Letters, 2021, 46, 5177.	3.3	12
31	Optical Fiber Delay Lines in Microwave Photonics: Sensitivity to Temperature and Means to Reduce it. Journal of Lightwave Technology, 2021, 39, 2311-2318.	4.6	10
32	Theoretical analysis of backscattering in hollow-core antiresonant fibers. APL Photonics, 2021, 6, .	5.7	10
33	Hybrid RoF-RoFSO System Using Directly Modulated Laser for 24 â€“ 26 GHz 5G Networks. , 2018, , .		9
34	Optoelectronic oscillator incorporating hollow-core photonic bandgap fiber. Optics Letters, 2017, 42, 2647.	3.3	9
35	Data transmission through up to 74.8 km of hollow-core fiber with coherent and direct-detect transceivers. , 2015, , .		8
36	Optical Injection-Locked Directly Modulated Lasers for Dispersion Pre-Compensated Direct-Detection Transmission. Journal of Lightwave Technology, 2018, 36, 4967-4974.	4.6	8

#	Article	IF	Citations
37	Toward High Accuracy Positioning in 5G via Passive Synchronization of Base Stations Using Thermally-Insensitive Optical Fibers. IEEE Access, 2019, 7, 113197-113205.	4.2	8
38	Discrete Multitone Format for Repeater-Less Direct-Modulation Direct-Detection Over 150 km. Journal of Lightwave Technology, 2016, 34, 3223-3229.	4.6	7
39	Transmitters for Combined Radio Over a Fiber and Outdoor Millimeter-Wave System at 25 GHz. IEEE Photonics Journal, 2020, 12, 1-14.	2.0	6
40	Wavelength conversion technique for optical frequency dissemination applications. Optics Letters, 2016, 41, 1716.	3.3	5
41	Limits of Coupling Efficiency into Hollow-Core Antiresonant Fibers. , 2021, , .		5
42	Polarization Effects on Thermally Stable Latency in Hollow-Core Photonic Bandgap Fibers. Journal of Lightwave Technology, 2021, 39, 2142-2150.	4.6	5
43	Finesse Limits in Hollow Core Fiber based Fabry-Perot interferometers. Journal of Lightwave Technology, 2021, 39, 4489-4495.	4.6	5
44	Low-loss microwave photonics links using hollow core fibres. Light: Science and Applications, 2022, 11, .	16.6	5
45	Toward Gamma Ray Immune Fibre-Optic Phosphor Thermometry for Nuclear Decommissioning. International Journal of Thermophysics, 2022, 43, 1.	2.1	4
46	Hollow-core fiber Fabryâ€“Perot interferometers with reduced sensitivity to temperature. Optics Letters, 2022, 47, 2510.	3.3	4
47	All-Fiber Passive Alignment-Free Depolarizers Capable of Depolarizing Narrow Linewidth Signals. Journal of Lightwave Technology, 2019, 37, 704-714.	4.6	3
48	Monitoring of Fibre Optic Links With a Machine Learning-Assisted Low-Cost Polarimeter. IEEE Access, 2020, 8, 183965-183971.	4.2	3
49	Record High Capacity (6.8 Tbit/s) WDM Coherent Transmission in Hollow-Core Antiresonant Fiber. , 2017, , .		3
50	Fiber interferometry with low temperature sensitivity. , 2020, , .		3
51	Long Length Fibre Fabry-Perot Interferometers and their Applications in Fibre Characterization and Temperature Sensing. , 2019, , .		2
52	Temperature-insensitive delay-line fiber interferometer. , 2021, , .		2
53	Hollow core fiber temperature sensitivity reduction via winding on a thermally-insensitive coil. , 2021, , .		2
54	Optical Injection Locking for Carrier Phase Recovery and Regeneration. , 2017, , .		2

#	ARTICLE	IF	CITATIONS
55	Towards precise one-way fiber-based frequency dissemination using phase-sensitive amplification. Optics Letters, 2019, 44, 550.	3.3	2
56	Hollow core fiber Fabry-Perot interferometers with finesse over 3000. , 2020, , .		2
57	Ultralow thermal sensitivity of phase and propagation delay in hollow-core fibers. , 2018, , .		1
58	Homodyne Operation of a Phase-only Optical Amplifier. , 2012, , .		1
59	Polarization Effects on Thermally Stable Latency in Hollow-Core Photonic Bandgap Fibres. , 2019, , .		1
60	Interconnecting hollow-core fibers. , 2021, , .		0
61	Transmission Of Frequency Comb Over 7.7 km Of Hollow Core Fiber. , 2021, , .		0
62	Hollow-core fiber Characterization with Correlation-Optical Time Domain Reflectometry. , 2021, , .		0
63	Polarization Stable Hollow Core Fiber Interferometer With Faraday Rotator Mirrors. IEEE Photonics Technology Letters, 2021, 33, 1503-1506.	2.5	0