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	Toward Gamma Ray Immune Fibre-Optic Phosphor Thermometry for Nuclear Decommissioning. International Journal of Thermophysics, 2022, 43, 1.	2.1	4
2	Hollow-core fiber Fabryâ€“Perot interferometers with reduced sensitivity to temperature. Optics Letters, 2022, 47, 2510.	3.3	4
3	Low-loss microwave photonics links using hollow core fibres. Light: Science and Applications, 2022, 11, .	16.6	5
4	Limits of Coupling Efficiency into Hollow-Core Antiresonant Fibers. , 2021, , .		5
5	Temperature-insensitive delay-line fiber interferometer. , 2021, , .		2
6	Hollow core fiber temperature sensitivity reduction via winding on a thermally-insensitive coil. , 2021, , .		2
7	Backscattering in antiresonant hollow-core fibers: over 40â€‰â€‰dB lower than in standard optical fibers. Optica, 2021, 8, 216.	9.3	41
8	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
9	Polarization Effects on Thermally Stable Latency in Hollow-Core Photonic Bandgap Fibers. Journal of Lightwave Technology, 2021, 39, 2142-2150.	4.6	5
10	Low loss and high performance interconnection between standard single-mode fiber and antiresonant hollow-core fiber. Scientific Reports, 2021, 11, 8799.	3.3	42
11	Finesse Limits in Hollow Core Fiber based Fabry-Perot interferometers. Journal of Lightwave Technology, 2021, 39, 4489-4495.	4.6	5
12	Interconnecting hollow-core fibers. , 2021, , .		0
13	Theoretical analysis of backscattering in hollow-core antiresonant fibers. APL Photonics, 2021, 6, .	5.7	10
14	Thinly coated hollow core fiber for improved thermal phase-stability performance. Optics Letters, 2021, 46, 5177.	3.3	12
15	Transmission Of Frequency Comb Over 7.7 km Of Hollow Core Fiber. , 2021, , .		0
16	Hollow-core fiber Characterization with Correlation-Optical Time Domain Reflectometry. , 2021, , .		0
17	Polarization Stable Hollow Core Fiber Interferometer With Faraday Rotator Mirrors. IEEE Photonics Technology Letters, 2021, 33, 1503-1506.	2.5	0
18	Optical Injection Locking: From Principle to Applications. Journal of Lightwave Technology, 2020, 38, 43-59.	4.6	108

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19	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
20	Monitoring of Fibre Optic Links With a Machine Learning-Assisted Low-Cost Polarimeter. IEEE Access, 2020, 8, 183965-183971.	4.2	3
21	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
22	Low Thermal Sensitivity Hollow Core Fiber for Optically-Switched Data Centers. Journal of Lightwave Technology, 2020, 38, 2703-2709.	4.6	12
23	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
24	Fiber interferometry with low temperature sensitivity. , 2020, , .		3
25	Hollow core fiber Fabry-Perot interferometers with finesse over 3000. , 2020, , .		2
26	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
27	Long Length Fibre Fabry-Perot Interferometers and their Applications in Fibre Characterization and Temperature Sensing. , 2019, , .		2
28	Low-Loss and Low-Back-Reflection Hollow-Core to Standard Fiber Interconnection. IEEE Photonics Technology Letters, 2019, 31, 723-726.	2.5	27
29	All-Fiber Passive Alignment-Free Depolarizers Capable of Depolarizing Narrow Linewidth Signals. Journal of Lightwave Technology, 2019, 37, 704-714.	4.6	3
30	Nonlinearity-Free Coherent Transmission in Hollow-Core Antiresonant Fiber. Journal of Lightwave Technology, 2019, 37, 909-916.	4.6	43
31	Temperature insensitive fiber interferometry. Optics Letters, 2019, 44, 2768.	3.3	21
32	Towards precise one-way fiber-based frequency dissemination using phase-sensitive amplification. Optics Letters, 2019, 44, 550.	3.3	2
33	Polarization Effects on Thermally Stable Latency in Hollow-Core Photonic Bandgap Fibres. , 2019, , .		1
34	Demonstration of opposing thermal sensitivities in hollow-core fibers with open and sealed ends. Optics Letters, 2019, 44, 4367.	3.3	15
35	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
36	Hollow-core fibres for temperature-insensitive fibre optics and its demonstration in an Optoelectronic oscillator. Scientific Reports, 2018, 8, 18015.	3.3	12

#	ARTICLE	IF	CITATIONS
37	Ultralow thermal sensitivity of phase and propagation delay in hollow-core fibers. , 2018, , .		1
38	Hybrid RoF-RoFSO System Using Directly Modulated Laser for 24 â€" 26 GHz 5G Networks. , 2018, , .		9
39	Record Low-Loss 1.3dB/km Data Transmitting Antiresonant Hollow Core Fibre. , 2018, , .		25
40	24â€"26â€‰â€‰GHz radio-over-fiber and free-space optics for fifth-generation systems. Optics Letters, 2018, 43, 1035.	3.3	57
41	Optical Injection-Locked Directly Modulated Lasers for Dispersion Pre-Compensated Direct-Detection Transmission. Journal of Lightwave Technology, 2018, 36, 4967-4974.	4.6	8
42	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
43	How to make the propagation time through an optical fiber fully insensitive to temperature variations. Optica, 2017, 4, 659.	9.3	49
44	Optical Injection Locking for Carrier Phase Recovery and Regeneration. , 2017, , .		2
45	Optoelectronic oscillator incorporating hollow-core photonic bandgap fiber. Optics Letters, 2017, 42, 2647.	3.3	9
46	Record High Capacity (6.8 Tbit/s) WDM Coherent Transmission in Hollow-Core Antiresonant Fiber. , 2017, , .		3
47	Discrete Multitone Format for Repeater-Less Direct-Modulation Direct-Detection Over 150 km. Journal of Lightwave Technology, 2016, 34, 3223-3229.	4.6	7
48	Wavelength conversion technique for optical frequency dissemination applications. Optics Letters, 2016, 41, 1716.	3.3	5
49	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
50	Ultralow thermal sensitivity of phase and propagation delay in hollow core optical fibres. Scientific Reports, 2015, 5, 15447.	3.3	75
51	Data transmission through up to 74.8 km of hollow-core fiber with coherent and direct-detect transceivers. , 2015, , .		8
52	Homodyne OFDM with Optical Injection Locking for Carrier Recovery. Journal of Lightwave Technology, 2015, 33, 34-41.	4.6	47
53	High-Capacity Directly Modulated Optical Transmitter for 2-Î¼m Spectral Region. Journal of Lightwave Technology, 2015, 33, 1373-1379.	4.6	65
54	Optical Fourier synthesis of high-repetition-rate pulses. Optica, 2015, 2, 18.	9.3	23

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55	Optical injection locking-based amplification in phase-coherent transfer of optical frequencies. Optics Letters, 2015, 40, 4198.	3.3	26
56	Modulator-free quadrature amplitude modulation signal synthesis. Nature Communications, 2014, 5, 5911.	12.8	31
57	Towards high-capacity fibre-optic communications at the speed of light in vacuum. Nature Photonics, 2013, 7, 279-284.	31.4	289
58	Processing of optical combs with fiber optic parametric amplifiers. Optics Express, 2012, 20, 10059.	3.4	15
59	Homodyne Operation of a Phase-only Optical Amplifier. , 2012, , .		1
60	Stable and Efficient Generation of High Repetition Rate ($>$160 GHz) Subpicosecond Optical Pulses. IEEE Photonics Technology Letters, 2011, 23, 540-542.	2.5	15
61	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
62	Multilevel quantization of optical phase in a novel coherent parametric mixer architecture. Nature Photonics, 2011, 5, 748-752.	31.4	145
63	All-optical phase and amplitude regenerator for next-generation telecommunications systems. Nature Photonics, 2010, 4, 690-695.	31.4	595