

Arthur H Hartog

List of Publications by Year in descending order

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42
papers

2,056
citations

430874

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32
g-index

43
all docs

43
docs citations

43
times ranked

1460
citing authors

#	ARTICLE	IF	CITATIONS
1	An Introduction to Distributed Optical Fibre Sensors. , 0, , .		446
2	A distributed temperature sensor based on liquid-core optical fibers. Journal of Lightwave Technology, 1983, 1, 498-509.	4.6	152
3	On the theory of backscattering in single-mode optical fibers. Journal of Lightwave Technology, 1984, 2, 76-82.	4.6	145
4	Raman-based fibre sensors: Trends and applications. Optical Fiber Technology, 2013, 19, 678-688.	2.7	134
5	The effect of gauge length on axially incident P-waves measured using fibre optic distributed vibration sensing. Geophysical Prospecting, 2017, 65, 184-193.	1.9	123
6	Fundamentals of Optical Fiber Sensing Schemes Based on Coherent Optical Time Domain Reflectometry: Signal Model Under Static Fiber Conditions. Journal of Lightwave Technology, 2015, 33, 3660-3671.	4.6	105
7	Vertical seismic optical profiling on wireline logging cable. Geophysical Prospecting, 2014, 62, 693-701.	1.9	92
8	Radiation-tolerant Raman distributed temperature monitoring system for large nuclear infrastructures. IEEE Transactions on Nuclear Science, 2005, 52, 2689-2694.	2.0	88
9	Variation of pulse delay with stress and temperature in jacketed and unjacketed optical fibres. Optical and Quantum Electronics, 1979, 11, 265-273.	3.3	87
10	Extreme hydrothermal conditions at an active plate-bounding fault. Nature, 2017, 546, 137-140.	27.8	84
11	The use of multi-frequency acquisition to significantly improve the quality of fibre-optic distributed vibration sensing. Geophysical Prospecting, 2018, 66, 192-202.	1.9	68
12	Influence of modulation instability on distributed optical fiber sensors based on spontaneous Brillouin scattering. Journal of the Optical Society of America B: Optical Physics, 2004, 21, 1156.	2.1	64
13	A study of the geophysical response of distributed fibre optic acoustic sensors through laboratory-scale experiments. Geophysical Prospecting, 2017, 65, 1186-1204.	1.9	42
14	Optical Fiber Sensors in Upstream Oil & Gas. JPT, Journal of Petroleum Technology, 2002, 54, 63-65.	0.2	39
15	On the accuracy of the WKB approximation in optical dielectric waveguides. Optical and Quantum Electronics, 1977, 9, 223-232.	3.3	35
16	Spontaneous Brillouin-based distributed temperature sensor utilizing a fiber Bragg grating notch filter for the separation of the Brillouin signal. IEEE Photonics Technology Letters, 2001, 13, 508-510.	2.5	35
17	<title>Distributed temperature sensing (DTS) to characterize the performance of producing oil wells</title>. , 2000, , .		32
18	Petrophysical, Geochemical, and Hydrological Evidence for Extensive Fracture-Mediated Fluid and Heat Transport in the Alpine Fault's Hanging-Wall Damage Zone. Geochemistry, Geophysics, Geosystems, 2017, 18, 4709-4732.	2.5	31

#	ARTICLE	IF	CITATIONS
19	Distributed fibre-optic temperature sensors: technology and applications in the power industry. Power Engineering Journal, 1995, 9, 114-120.	0.1	24
20	Advances in Distributed Fiber-Optic Sensing for Monitoring Marine Infrastructure, Measuring the Deep Ocean, and Quantifying the Risks Posed by Seafloor Hazards. Marine Technology Society Journal, 2018, 52, 58-73.	0.4	24
21	Photonic distributed sensing. Physics World, 1991, 4, 45-50.	0.0	18
22	980 nm diode pumped erbium ³⁺ /ytterbium ³⁺ doped Q-switched fibre laser. Electronics Letters, 1995, 31, 1836-1837.	1.0	17
23	Improving DAS acquisition by real-time monitoring of wireline cable coupling. , 2016, , .		15
24	An optimized technique for backscatter attenuation measurements in optical fibres. Optical and Quantum Electronics, 1980, 12, 169-178.	3.3	14
25	Distributed vibration sensing for seismic acquisition. The Leading Edge, 2016, 35, 600-604.	0.7	14
26	Rayleigh backscattered radiation produced by an arbitrary incident mode in multimode optical fibers. Applied Optics, 2018, 57, 6534.	1.8	14
27	A Comprehensive Distributed Pipeline Condition Monitoring System and Its Field Trial. , 2008, , .		13
28	1.64 [micro sign]m pulsed source for a distributed optical fibre Raman temperature sensor. Electronics Letters, 1996, 32, 1809.	1.0	12
29	Fiber performance in hydrogen atmosphere at high temperature. , 2006, , .		12
30	Numerical evaluation of sensor coupling of distributed acoustic sensing systems in vertical seismic profiling. , 2016, , .		10
31	Non-Linear Interactions With Backscattered Light: A Truly Single-Ended Brillouin Optical Time-Domain Analysis Technique. Journal of Lightwave Technology, 2019, 37, 2386-2402.	4.6	9
32	Optical fibre diameter variations and their effect on backscatter loss measurements. Electronics Letters, 1981, 17, 308.	1.0	8
33	Comparison of measured and predicted bandwidth of graded-index multimode fibers. IEEE Journal of Quantum Electronics, 1982, 18, 825-838.	1.9	7
34	Accurate Single-Ended Distributed Temperature Sensing. , 2008, , .		7
35	Raman sensors and their applications. Proceedings of SPIE, 2012, , .	0.8	6
36	<title>Recent advances in distributed optical fiber temperature sensing using the Landau-Placzek ratio</title>. , 1999, , .		5

#	ARTICLE	IF	CITATIONS
37	Vertical seismic profiles: Now just another log?. , 2015, , .		5
38	Interventional Treatment for Low Back Pain: General Risks. Physical Medicine and Rehabilitation Clinics of North America, 2010, 21, 819-823.	1.3	4
39	Optical Fibre Sensors in the Oil, Gas and Geothermal Energy Extraction. , 2014, , .		4
40	Sinusoidal modulation of a CW GaAs laser from 9 MHz to 1.1 GHz. Optics Communications, 1976, 19, 305-307.	2.1	3
41	Optical fibre transmission lines. Radio and Electronic Engineer, 1981, 51, 313.	0.1	3
42	Polarisation measurements on monomode fibres using optical time-domain reflectometry. IEE Proceedings H: Microwaves Optics and Antennas, 1981, 128, 168.	0.2	1