

APOS 2019

Wednesday, 20 November Poster Session

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Poster Number	Poster Title	First Name	Last Name	Organisation	Theme
86	Detrimental effect of low duty cycle Complementary codes in distributed Brillouin sensors	Shahna	Haneef	Department Of Physics, University Of Auckland	05. Geophysics, civil engineering and distributed sensing
96	Numerical analysis of acousto-optic interaction in optical fibers with arbitrary transverse doping	Shahna	Haneef	Department Of Physics, University Of Auckland	05. Geophysics, civil engineering and distributed sensing
99	Distributed Vibration Sensor Based on Mode Coupling in Weakly-Coupled FMF	Juhao	Li		05. Geophysics, civil engineering and distributed sensing
102	Distributed torsion sensing based on optical frequency domain reflectometer using the helical multicore fiber	Guolu	Yin	Chongqing Univeristy	05. Geophysics, civil engineering and distributed sensing
105	Intrusion detection of subway tunnel using fiber optic seismometer and time-frequency algorithm	Wentao	Zhang	Institute Of Semiconductors, Chinese Academy Of Sciences	05. Geophysics, civil engineering and distributed sensing
108	Earthquake response monitoring of high-rise building using fiber optic accelerometers	Wentao	Zhang	Institute Of Semiconductors, Chinese Academy Of Sciences	05. Geophysics, civil engineering and distributed sensing
111	Measurement of Polarization Transient Effects in Data Signal due to Mechanical Stress Applied to Optical Fibre	Petr	Münster	Cesnet	05. Geophysics, civil engineering and distributed sensing
122	Static strain sensor based on short-cavity random fiber laser and beat frequency technology	Wentao	Zhang	Institute Of Semiconductors, Chinese Academy Of Sciences	05. Geophysics, civil engineering and distributed sensing
142	Brillouin optical correlation-domain reflectometry using chirp-modulated optical frequency	Kohei	Noda	Tokyo Institute Of Technology	05. Geophysics, civil engineering and distributed sensing
153	Interferometer based on photonic integrated circuit for optical frequency domain reflectometry	Victor	Shishkin	The University of Tokyo	05. Geophysics, civil engineering and distributed sensing
69	Highly sensitive ultralong period microfiber grating for low refractive index range	haifeng	liu	nankai university	04. Fibre, grating and component technologies for sensing
70	Fold bending detection of origami structures based on hetero-core fiber optic sensor	Hiroshi	Yamazaki	Soka University	04. Fibre, grating and component technologies for sensing
71	Evaluation of hetero-core optical fiber CO2 sensor immerced in ionic liquid of [EMIM] [BF4]	Mitsuhiro	Suzuki	Soka University	04. Fibre, grating and component technologies for sensing
72	Assessment of frequency response characteristics for a cantilever hetero-core fiber optic accelerometer	Akihito	Matsuo	Soka University	04. Fibre, grating and component technologies for sensing
74	Characterisation of FDM filament compression with FBGs	John	Canning	UTS	04. Fibre, grating and component technologies for sensing
79	Ultrafast-response humidity sensor based on microfiber covered with three-dimensional graphene network	Yongchun	Zhong	Jinan University, China	04. Fibre, grating and component technologies for sensing
84	Adjustable multi-wavelength fiber laser based on a GOMC	Yang	Yu		04. Fibre, grating and component technologies for sensing
89	Fiber Optic MEMS Ultrasonic Sensor and Its Application in Partial Discharge Detection	Yu	Wu	Communications, University of Electronic Science and Technology of China	04. Fibre, grating and component technologies for sensing
90	Optical fiber sensor based on anti-resonant reflected optical waveguide with polarized light incident	双	王		04. Fibre, grating and component technologies for sensing
91	Tilted fiber grating based vector bending sensor	Zhijun	Yan		04. Fibre, grating and component technologies for sensing
95	Highly sensitive in-fiber Mach-Zehnder refractometer based on femtosecond laser ablated microgroove	Jingdong	Zhang	Chongqing University	04. Fibre, grating and component technologies for sensing
98	Tailoring properties of micro-cavity in-line Mach-Zehnder interferometer sensors by thin hafnium oxide films	Marcin	Koba		04. Fibre, grating and component technologies for sensing
101	Wideband sparse vibration detection with ϕ -OTDR based on Compressed Sensing	Jingdong	Zhang	Chongqing University	04. Fibre, grating and component technologies for sensing
112	Embedded smart FBG orthotics	John	Canning	UTS	04. Fibre, grating and component technologies for sensing
115	Long-range and wide-band vibration sensing by using phase-sensitive OFDR to interrogate weak reflector array	Zhaopeng	Zhang		04. Fibre, grating and component technologies for sensing

117	Strain sensing using opal-patterned flexible films	Judith	Dawes		04. Fibre, grating and component technologies for sensing
118	Correlation-like demodulation of fiber Fabry-Perot sensor based on blackbody radiation light source	Yuru	Chen		04. Fibre, grating and component technologies for sensing
119	Fiber Optic Curvature Sensor Based on Highly Accurate Intensity Demodulation Technique	Zhangqi	Song		04. Fibre, grating and component technologies for sensing
121	Parameter design of optical fiber Fabry-sensing demodulation instrument based on flat wafer	Yuru	Chen		04. Fibre, grating and component technologies for sensing
126	High-temperature fibre-optic Fabry-Perot accelerometer based on MEMS technology for in situ measurement at 400 °C	Pinggang	Jia	North University of China	04. Fibre, grating and component technologies for sensing
132	Enhanced stability of microresonator soliton frequency combs using an auxiliary laser	Andrew	Su		04. Fibre, grating and component technologies for sensing
135	Pressure sensor based on fiber optic end FP cavity with uniform microbubble film shaping	Shubin	Zhang		04. Fibre, grating and component technologies for sensing
138	A novel gas flow sensor based on differential pulse-width pair Brillouin optical time domain analysis and high attenuation fiber	Hongying	Zhang		04. Fibre, grating and component technologies for sensing
144	Precise wear measurement based on OFDR length measurement of a sacrificial FBG	Fanhao	Zeng	Wuhan University Of Technology	04. Fibre, grating and component technologies for sensing
147	Distributed ultraweak grating array vibration sensing system for geological exploration	Yanshi	Jiang	School Of Information Engineering, Wuhan University Of Technology, Wuhan, Hubei, China	04. Fibre, grating and component technologies for sensing
148	Tilted Fiber Bragg Grating Hot Wire Wind Sensor enables simultaneous speed and direction measurement	Yifan	Duan		04. Fibre, grating and component technologies for sensing