Gang-Ding Peng

List of Publications by Citations

331 papers	4,012 citations	30 h-index	48 g-index
433 ext. papers	5,030 ext. citations	3 avg, IF	5.59 L-index

#	Paper	IF	Citations
331	Mode-division multiplexed transmission with inline few-mode fiber amplifier. *Optics Express*, **2012**, 20, 2668-80	3.3	204
330	Highly sensitive liquid level monitoring system utilizing polymer fiber Bragg gratings. *Optics Express* , **2015**, 23, 6058-72	3.3	116
329	Broad range pH sensor based on sol–gel entrapped indicators on fibre optic. *Sensors and Actuators B: Chemical*, **2008**, 129, 94-98	8.5	111
328	Highly Sensitive Bend Sensor Based on Bragg Grating in Eccentric Core Polymer Fiber. *IEEE Photonics Technology Letters*, **2010**, 22, 850-852	2.2	91
327	Distributed OTDR-interferometric sensing network with identical ultra-weak fiber Bragg gratings. *Optics Express*, **2015**, 23, 29038-46	3.3	86
326	Air-structured optical fiber drawn from a 3D-printed preform. *Optics Letters*, **2015**, 40, 3966-9	3	80
325	Asymmetric long period fiber gratings fabricated by use of CO2 laser to carve periodic grooves on the optical fiber. *Applied Physics Letters*, **2006**, 89, 151105	3.4	75
324	A fast response intrinsic humidity sensor based on an etched singlemode polymer fiber Bragg grating. *Sensors and Actuators A: Physical*, **2013**, 203, 107-111	3.9	73
323	Simultaneous measurement of shrinkage and temperature of reactive powder concrete at early-age using fibre Bragg grating sensors. *Cement and Concrete Composites*, **2007**, 29, 490-497	8.6	69
322	Bismuth and erbium codoped optical fiber with ultrabroadband luminescence across O-, E-, S-, C-, and L-bands. *Optics Letters*, **2012**, 37, 3447-9	3	66
321	Distributed acoustic mapping based on interferometry of phase optical time-domain reflectometry. *Optics Communications*, **2015**, 346, 172-177	2	64
320	Wavelength-encoded fiber-optic temperature sensor with ultra-high sensitivity. *Optics Communications*, **2008**, 281, 5768-5770	2	54
319	High Sensitivity Force and Pressure Measurements Using Etched Singlemode Polymer Fiber Bragg Gratings. *IEEE Sensors Journal*, **2013**, 13, 1794-1800	4	51
318	Label-free detection of bovine serum albumin based on an in-fiber Mach-Zehnder interferometric biosensor. *Optics Express*, **2017**, 25, 17105-17113	3.3	49
317	Long period fiber grating based on periodically screw-type distortions for torsion sensing. *Optics Express*, **2017**, 25, 14308-14316	3.3	48
316	Hollow Core Fiber Based Interferometer for High-Temperature (1000 °C) Measurement. *Journal of Lightwave Technology*, **2018**, 36, 1583-1590	4	46
315	Magnetic field sensor based on a combination of a microfiber coupler covered with magnetic fluid and a Sagnac loop. *Scientific Reports*, **2017**, 7, 4725	4.9	46

314	Polymer optical fiber Bragg grating acting as an intrinsic biochemical concentration sensor. *Optics Letters*, **2012**, 37, 1370-2	3	43
313	Step-index optical fiber drawn from 3D printed preforms. *Optics Letters*, **2016**, 41, 4554-4557	3	43
312	Biochemical sensing in graphene-enhanced microfiber resonators with individual molecule sensitivity and selectivity. *Light: Science and Applications*, **2019**, 8, 107	16.7	42
311	Turbidimetric inhibition immunoassay revisited to enhance its sensitivity via an optofluidic laser. *Biosensors and Bioelectronics*, **2019**, 131, 60-66	11.8	41
310	High spatial resolution fiber-optic Fizeau interferometric strain sensor based on an in-fiber spherical microcavity. *Applied Physics Letters*, **2008**, 92, 101117	3.4	41
309	Fabrication of Polymer Optical Fibre (POF) Gratings. *Sensors*, **2017**, 17,	3.8	40
308	Experimental Study and Analysis of Hydrostatic Pressure Sensitivity of Polymer Fibre Bragg Gratings. *Journal of Lightwave Technology*, **2015**, 33, 2456-2462	4	40
307	Reproducible fiber optofluidic laser for disposable and array applications. *Lab on A Chip*, **2017**, 17, 3431-3436	7.2	38
306	Distributed fibre optofluidic laser for chip-scale arrayed biochemical sensing. *Lab on A Chip*, **2018**, 18, 2741-2748	7.2	37
305	Gratings fabrication in benzildimethylketal doped photosensitive polymer optical fibers using 355 nm nanosecond pulsed laser. *Optics Letters*, **2010**, 35, 751-3	3	36
304	Analysis of multimode POF gratings in stress and strain sensing applications. *Optical Fiber Technology*, **2011**, 17, 201-209	2.4	34
303	Ce(3+)/Yb(3+)/Er(3+) triply doped bismuth borosilicate glass: a potential fiber material for broadband near-infrared fiber amplifiers. *Scientific Reports*, **2016**, 6, 33865	4.9	32
302	Highly sensitive force sensor based on optical microfiber asymmetrical Fabry-Perot interferometer. *Optics Express*, **2014**, 22, 3578-84	3.3	30
301	Pole-zero diagram approach to the design of ring resonator-based filters for photonic applications. *Journal of Lightwave Technology*, **2004**, 22, 1548-1559	4	29
300	The investigation of an LSPR refractive index sensor based on periodic gold nanorings array. *Journal Physics D: Applied Physics*, **2018**, 51, 045101	3	28
299	High Intrinsic Sensitivity Etched Polymer Fiber Bragg Grating Pair for Simultaneous Strain and Temperature Measurements. *IEEE Sensors Journal*, **2016**, 16, 2453-2459	4	28
298	Research on a novel composite structure Er□+-doped DBR fiber laser with a □phase shifted FBG. *Optics Express*, **2013**, 21, 22515-22	3.3	28
297	Investigation of Wavelength Modulation and Wavelength Sweep Techniques in Intracavity Fiber Laser for Gas Detection. *Journal of Lightwave Technology*, **2011**, 29, 15-21	4	28

296	Silica optical fiber drawn from 3D printed preforms. *Optics Letters*, **2019**, 44, 5358-5361	3	28
295	Experimental Study and Analysis of a Polymer Fiber Bragg Grating Embedded in a Composite Material. *Journal of Lightwave Technology*, **2014**, 32, 1726-1733	4	27
294	Intrinsic High-Sensitivity Sensors Based on Etched Single-Mode Polymer Optical Fibers. *IEEE Photonics Technology Letters*, **2015**, 27, 604-607	2.2	27
293	Novel gas sensor combined active fiber loop ring-down and dual wavelengths differential absorption method. *Optics Express*, **2014**, 22, 11244-53	3.3	27
292	Toward an ultra-broadband emission source based on the bismuth and erbium co-doped optical fiber and a single 830nm laser diode pump. *Optics Express*, **2013**, 21, 7786-92	3.3	27
291	Channelled optical fibre photoreactor for improved air quality control. *Chemical Engineering Science* , **2010**, 65, 882-889	4.4	27
290	Wavelength Sweep of Intracavity Fiber Laser for Low Concentration Gas Detection. *IEEE Photonics Technology Letters*, **2008**, 20, 1515-1517	2.2	27
289	Performance Enhancement of Vibration Sensing Employing Multiple Phase-Shifted Fiber Bragg Grating. *Journal of Lightwave Technology*, **2011**, 29, 3453-3460	4	26
288	Fiber laser based hydrophone systems. *Photonic Sensors*, **2011**, 1, 210-221	2.3	26
287	Soliton controlling, switching, and splitting in nonlinear fused-fiber couplers. *Journal of the Optical Society of America B: Optical Physics*, **1995**, 12, 898	1.7	25
286	Optical properties of PbS-doped silica optical fiber materials based on atomic layer deposition. *Applied Surface Science*, **2014**, 320, 372-378	6.7	24
285	Radiation-induced photoluminescence enhancement of Bi/Al-codoped silica optical fibers via atomic layer deposition. *Optics Express*, **2015**, 23, 29004-13	3.3	24
284	Fiber Optofluidic Microlaser With Lateral Single Mode Emission. *IEEE Journal of Selected Topics in Quantum Electronics*, **2018**, 24, 1-6	3.8	23
283	Design and Analysis of a High Sensitivity FBG Accelerometer Based on Local Strain Amplification. *IEEE Sensors Journal*, **2015**, 15, 5442-5449	4	23
282	Microbubble-Based Fiber Optofluidic Interferometer for Sensing. *Journal of Lightwave Technology*, **2017**, 35, 2514-2519	4	22
281	Percolation Diffusion into Self-Assembled Mesoporous Silica Microfibres. *Nanomaterials*, **2014**, 4, 157-174	5.4	22
280	Polymer micro-fiber Bragg grating. *Optics Letters*, **2013**, 38, 3359-62	3	22
279	Apodized distributed feedback fiber laser with asymmetrical outputs for multiplexed sensing applications. *Optics Express*, **2013**, 21, 11309-14	3.3	22

278	Microfluidic Flow Rate Detection With a Large Dynamic Range by Optical Manipulation. *IEEE Photonics Technology Letters*, **2015**, 27, 2508-2511	2.2	21
277	Photoluminescence properties of Bi/Al-codoped silica optical fiber based on atomic layer deposition method. *Applied Surface Science*, **2015**, 349, 287-291	6.7	21
276	Formation and photoluminescence property of PbS quantum dots in silica optical fiber based on atomic layer deposition. *Optical Materials Express*, **2015**, 5, 712	2.6	20
275	Evanescently coupled optical fiber refractometer based a tilted fiber Bragg grating and a D-shaped fiber. *Optics Express*, **2015**, 23, 20971-6	3.3	20
274	Enhancing the sensitivity of poly(methyl methacrylate) based optical fiber Bragg grating temperature sensors. *Optics Letters*, **2015**, 40, 4046-9	3	20
273	Toward optical fibre fabrication using 3D printing technology. *Optical Fiber Technology*, **2020**, 58, 102299	2.4	20
272	Photoluminescence Characteristics of Bi(m+)-Doped Silica Optical Fiber: Structural Model and Theoretical Analysis. *Japanese Journal of Applied Physics*, **2013**, 52, 122501	1.4	20
271	Highly sensitive fiber-optic accelerometer by grating inscription in specific core dip fiber. *Scientific Reports*, **2017**, 7, 11856	4.9	20
270	Multiplexed fibre Fizeau interferometer and fibre Bragg grating sensor system for simultaneous measurement of quasi-static strain and temperature using discrete wavelet transform. *Measurement Science and Technology*, **2006**, 17, 384-392	2	20
269	Optical fiber distributed acoustic sensing based on the self-interference of Rayleigh backscattering. *Measurement: Journal of the International Measurement Confederation*, **2016**, 79, 222-227	4.6	19
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265	Simultaneous demodulation technique for a multiplexed fiber Fizeau interferometer and fiber Bragg grating sensor system. *Optics Letters*, **2006**, 31, 23-5	3	19
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263	S-band optical amplification by an internally generated pump in thulium ytterbium codoped fiber. *Optics Express*, **2005**, 13, 3902-12	3.3	17
262	Optimal design of N□ silica multimode interference couplers □an improved approach. *Optics Communications*, **2004**, 241, 299-308	2	17
261	Electronic and luminescence characteristics of interstitial Bi0 atom in bismuth-doped silica optical fiber. *Journal of Luminescence*, **2019**, 207, 346-350	3.8	17

260	A Miniaturized FBG Accelerometer Based on a Thin Polyurethane Shell. *IEEE Sensors Journal*, **2016**, 16, 1210-1216	4	16
259	Mapping the thermal distribution within a silica preform tube using regenerated fibre Bragg gratings. *International Journal of Heat and Mass Transfer*, **2012**, 55, 3288-3294	4.9	16
258	Analysis of polarization-independent tunable optical comb filter by cascading MZI and phase modulating Sagnac loop. *Optics Communications*, **2011**, 284, 5144-5147	2	16
257	Side-Polished Single-Mode-Multimode-Single-Mode Fiber Structure for the Vector Magnetic Field Sensing. *Journal of Lightwave Technology*, **2020**, 38, 5837-5843	4	16
256	Pump wavelength dependence and thermal effect of photobleaching of BAC-Al in bismuth/erbium codoped aluminosilicate fibers. *Optics Letters*, **2018**, 43, 4739-4742	3	16
255	Near-IR luminescence characteristics of monovalent bismuth in Bi-doped pure silica optical fiber: First-principle study. *Journal of Luminescence*, **2018**, 198, 384-388	3.8	15
254	Lab-on-tip based on photothermal microbubble generation for concentration detection. *Sensors and Actuators B: Chemical*, **2018**, 255, 2504-2509	8.5	15
253	Fiber Ring Laser Intra-cavity Absorption Spectroscopy for Gas Sensing: Analysis and Experiment. *Journal of the Optical Society of Korea*, **2010**, 14, 14-21		15
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251	Mass production of thin-walled hollow optical fibers enables disposable optofluidic laser immunosensors. *Lab on A Chip*, **2020**, 20, 923-930	7.2	14
250	Topological Engineering of Photoluminescence Properties of Bismuth- or Erbium-Doped Phosphosilicate Glass of Arbitrary P2O5 to SiO2 Ratio. *Advanced Optical Materials*, **2018**, 6, 1800024	8.1	14
249	Gamma irradiation effect on Rayleigh scattering in low water peak single-mode optical fibers. *Optics Express*, **2011**, 19, 23271-8	3.3	14
248	Mechanically formed loss-tunable long-period fiber gratings realized on the periodic arrayed metal wires. *Optics Communications*, **2007**, 278, 77-80	2	14
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246	Etching Process Related Changes and Effects on Solid-Core Single-Mode Polymer Optical Fiber Grating. *IEEE Photonics Journal*, **2016**, 8, 1-9	1.8	13
245	Modeling and Analysis of a Combined Stress-Vibration Fiber Bragg Grating Sensor. *Sensors*, **2018**, 18,	3.8	13
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238	Energy transfer enhanced near-infrared spectral performance in bismuth/erbium codoped aluminosilicate fibers for broadband application. *Optics Express*, **2018**, 26, 17889-17898	3.3	12
237	Development of high sensitivity eight-element multiplexed fiber laser acoustic pressure hydrophone array and interrogation system. *Photonic Sensors*, **2017**, 7, 253-260	2.3	12
236	Inscription of Multiple Bragg Gratings in a Single-Mode Polymer Optical Fiber Using a Single Phase Mask and Its Analysis. *IEEE Sensors Journal*, **2014**, 14, 2384-2388	4	12
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225	Development of Bi/Er co-doped optical fibers for ultra-broadband photonic applications. *Frontiers of Optoelectronics*, **2018**, 11, 37-52	2.8	11

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221	Fiber-Optic Accelerometer Using Tilted Grating Inscribed in Depressed Cladding Fibers. *IEEE Photonics Technology Letters*, **2017**, 29, 2171-2174	2.2	10
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219	Tunable dispersion using linearly chirped polymer optical fiber Bragg gratings with fixed center wavelength. *IEEE Photonics Technology Letters*, **2005**, 17, 411-413	2.2	10
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216	Resonance-enhanced all-optical modulation of WSe2-based micro-resonator. *Nanophotonics*, **2019**, 9, 2387-2396	6.3	10
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205	Gain improvement by internal laser cavity in Tm(3+)Yb(3+)-co-doped tellurite fiber amplifier pumped by 980-nm laser. *Optics Express*, **2006**, 14, 8535-9	3.3	9
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203	Simple and Accurate Fluorescence Lifetime Measurement Scheme Using Traditional Time-Domain Spectroscopy and Modern Digital Signal Processing. *Journal of Lightwave Technology*, **2016**, 34, 5033-5043	4	9
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200	Simultaneous measurement of absolute strain and differential strain based on fiber Bragg grating Fabry□Perot sensor. *Optics Communications*, **2013**, 307, 101-105	2	8
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198	Test of spectral emission and absorption characteristics of active optical fibers by direct side pumping. *Optics Express*, **2012**, 20, 20623-8	3.3	8
197	Polymer optical fiber sensing **2002**, 4929, 303		8
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195	Study of a single longitudinal fiber ring laser with a □phase-shifted fiber Bragg grating. *Optics Communications*, **2017**, 396, 88-91	2	7
194	Luminescence properties of PbS quantum-dot-doped silica optical fibre produced via atomic layer deposition. *Journal of Luminescence*, **2017**, 187, 201-204	3.8	7
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185	Multiplexing technique using amplitude-modulated chirped fiber Bragg gratings. *Optics Letters*, **2007**, 32, 1887-9	3	7
184	Ultra-wideband and flat-gain optical properties of the PbS quantum dots-doped silica fiber. *Optics Express*, **2019**, 27, 37900-37909	3.3	7
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175	Modified Gaussian approach for the design of optical fiber couplers of arbitrary core shapes. *Applied Optics*, **1991**, 30, 2533-45	1.7	6
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173	Pseudo Whispering Gallery Mode Optofluidic Lasing Based on Air-Clad Optical Fiber. *Journal of Lightwave Technology*, **2019**, 37, 2623-2627	4	6
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167	Simultaneous Two-Parameter Sensing Using a Single Tilted Moiré Fiber Bragg Grating With Discrete Wavelet Transform Technique. *IEEE Photonics Technology Letters*, **2010**, 22, 1574-1576	2.2	5
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155	3D Silica Lithography for Future Optical Fiber Fabrication **2019**, 637-653		5
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