

# Young-Geun Han

## List of Publications by Year in descending order

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134  
papers

2,670  
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159585

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134  
docs citations

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times ranked

1704  
citing authors

#	ARTICLE	IF	CITATIONS
1	Cerium Oxide Nanoparticle-Containing Colorimetric Contact Lenses for Noninvasively Monitoring Human Tear Glucose. <i>ACS Applied Nano Materials</i> , 2021, 4, 5198-5210.	5.0	16
2	Relative Humidity Sensors Based on Microfiber Knot Resonators—A Review. <i>Sensors</i> , 2019, 19, 5196.	3.8	15
3	Sensitivity Improvement in Fiber Bragg Grating Sensors Using All-Fiber Weak Value Amplification Based on Optical Attenuation. <i>Journal of Lightwave Technology</i> , 2018, 36, 968-973.	4.6	3
4	Three-dimensional visualization system for ophthalmic microscopes using visible light and near-infrared illumination. <i>Journal of Biophotonics</i> , 2018, 11, e201600268.	2.3	2
5	Relative Humidity Sensor Based on a Few-Mode Microfiber Knot Resonator by Mitigating the Group Index Difference of a Few-Mode Microfiber. <i>Journal of Lightwave Technology</i> , 2018, 36, 904-909.	4.6	40
6	Fiber-bundle illumination: realizing high-degree time-multiplexed multifocal multiphoton microscopy with simplicity. <i>Scientific Reports</i> , 2018, 8, 14863.	3.3	2
7	Magnetic field sensor based on a two-mode microfiber knot resonator with polymeric dispersant EMG nano-particles. , 2018, , .		1
8	Investigation on Periodically Surface-Corrugated Long-Period Gratings Inscribed on Photonic Crystal Fibers. <i>Nanoscale Research Letters</i> , 2017, 12, 245.	5.7	3
9	Relative humidity sensor based on a few-mode microfiber knot resonator by mitigating group index difference. , 2017, , .		4
10	Investigation of Temperature Sensitivity of a Polymer-Overlaid Microfiber Mach-Zehnder Interferometer. <i>Sensors</i> , 2017, 17, 2403.	3.8	5
11	Detection of relative humidity variation based on periodically micro-tapered long-period gratings. , 2016, , .		0
12	Temperature-Insensitive Microfiber Mach-Zehnder Interferometer for Absolute Strain Measurement. <i>Journal of Lightwave Technology</i> , 2016, 34, 4579-4583.	4.6	12
13	Relative Humidity Sensor Based on an Optical Microfiber Knot Resonator With a Polyvinyl Alcohol Overlay. <i>Journal of Lightwave Technology</i> , 2016, 34, 4511-4515.	4.6	47
14	Effect of a Waist Diameter of a Microtapered Polarization-Maintaining Fiber on Temperature and Ambient Index Sensitivities. <i>Journal of Lightwave Technology</i> , 2015, 33, 2585-2590.	4.6	8
15	Highly Sensitive Current Sensor Based on an Optical Microfiber Loop Resonator Incorporating Low Index Polymer Overlay. <i>Journal of Lightwave Technology</i> , 2015, 33, 2386-2391.	4.6	16
16	In-line interferometer based on intermodal coupling of a multicore fiber. <i>Optics Express</i> , 2015, 23, 18316.	3.4	22
17	Influence of Diverse Atmospheric Conditions on Optical Properties of a Pulse Laser in a Time-of-Flight Laser Range Finder. <i>Journal of the Optical Society of Korea</i> , 2015, 19, 1-6.	0.6	5
18	Influence of the Thickness and Doping Concentration in p- and n-Type Poly-Si Layers on the Efficiency of a Solar Cell Based on a Carbon Fiber. <i>Journal of the Optical Society of Korea</i> , 2015, 19, 199-205.	0.6	4

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19	Transmission Characteristics of Long-Period Fiber Gratings Using Periodically Corroded Single-Mode Fibers. Journal of the Optical Society of Korea, 2015, 19, 376-381.	0.6	0
20	Suppression of speckle patterns based on temporal angular decorrelation induced by multiple beamlets with diverse optical paths. Journal of the Korean Physical Society, 2014, 64, 527-531.	0.7	1
21	Multiwavelength erbium-doped fiber laser based on a nonlinear amplified loop mirror with a highly-nonlinear photonic crystal fiber. Journal of the Korean Physical Society, 2013, 63, 189-192.	0.7	3
22	Influence of the waist diameters on transmission characteristics and strain sensitivity of microtapered long-period fiber gratings. Optics Letters, 2013, 38, 2669.	3.3	23
23	Long distance fiber Bragg grating strain sensor interrogation using a high speed Raman-based Fourier domain mode-locked fiber laser with recycled residual Raman pump. Optics Express, 2013, 21, 13402.	3.4	9
24	Discrimination of bending and temperature by using a multiwavelength raman fiber laser incorporating a sampled fiber Bragg grating. Journal of the Korean Physical Society, 2012, 61, 1349-1352.	0.7	1
25	Optical characteristics of a hybrid fiber grating based on a surface long-period grating incorporating a fiber Bragg grating. Journal of the Korean Physical Society, 2012, 61, 1353-1357.	0.7	2
26	Development of a small-size embedded optical microfiber coil resonator with high Q. Journal of the Korean Physical Society, 2012, 61, 1381-1385.	0.7	7
27	All-fiber spectral-domain optical coherence tomography with high resolution by using a PCF-based broadband coupler and a k-domain linearization method. Journal of the Korean Physical Society, 2012, 61, 1485-1489.	0.7	1
28	Stable and Widely Tunable Single-Longitudinal-Mode Dual-Wavelength Erbium-Doped Fiber Laser for Optical Beat Frequency Generation. IEEE Photonics Technology Letters, 2012, 24, 521-523.	2.5	51
29	Polarization-Dependent In-Line Mach-Zehnder Interferometer for Discrimination of Temperature and Ambient Index Sensitivities. Journal of Lightwave Technology, 2012, 30, 1037-1041.	4.6	34
30	Simultaneous Measurement of Strain and Temperature by Using a Micro-Tapered Fiber Grating. Journal of Lightwave Technology, 2012, 30, 1156-1160.	4.6	83
31	Switchable multiwavelength filter based on a hybrid sagnac interferometer. Journal of the Korean Physical Society, 2012, 60, 1207-1210.	0.7	0
32	Sagnac interferometer based on an etched photonic crystal fiber. Journal of the Korean Physical Society, 2012, 60, 1229-1232.	0.7	1
33	A Long-Distance Remote Sensing Technique Using a Multiwavelength Raman Fiber Laser Based on Fiber Bragg Gratings Embedded in a Quartz Tube. IEEE Sensors Journal, 2011, 11, 1152-1156.	4.7	5
34	Imprinted bidirectional waveguide platform for large-core optical transceiver. Optics Letters, 2011, 36, 2324.	3.3	3
35	Substrate Geometry-Dependent Nonlinear Absorption of Carbon Nanotubes Deposited onto D-Shaped Optical Fibers. Journal of Nanoscience and Nanotechnology, 2011, 11, 499-502.	0.9	0
36	Wavelength-switchable Multiwavelength Erbium-doped Fiber Laser Based on a D-shaped Fiber with a Photoresist Thin-film Overlay. Journal of the Korean Physical Society, 2011, 58, 890-893.	0.7	3

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37	Long-Period Fiber Gratings Based on Periodically Surface-Etched Structure Imprinted by Using a Photoresist Polymer. Korean Journal of Optics and Photonics, 2011, 22, 1-4.	0.1	0
38	Thermally Tunable Multiwavelength Raman Fiber Laser Based on a Novel In-line Interferometer. Journal of the Korean Physical Society, 2011, 58, 986-989.	0.7	2
39	Flexible Curled Optical Cord for Bending-Insensitive Optical Imaging Delivery. IEEE Journal of Selected Topics in Quantum Electronics, 2010, 16, 1031-1038.	2.9	4
40	The transmission characteristic of Sangac loop interferometer based on single polarization fiber. , 2010, , .		0
41	Noise Reduction in Multiwavelength SOA-Based Ring Laser by Coupled Dual Cavities for WDM Applications. Journal of Lightwave Technology, 2010, 28, 739-745.	4.6	6
42	Tunable multiwavelength Raman fiber ring laser based on a voltage controllable coil heater. , 2010, , .		0
43	Ultrafast saturable absorption devices incorporating efficiently electrospayed carbon nanotubes. Applied Physics Letters, 2010, 96, .	3.3	13
44	A novel fabrication technique of corrugated long-period fiber gratings for mass production and its transmission characteristic as applied mechanical force. , 2010, , .		1
45	Triple-wavelength switchable multiwavelength erbium-doped fiber laser based on a highly nonlinear photonic crystal fiber. Journal of the Korean Physical Society, 2010, 56, 1251-1255.	0.7	9
46	Transmission characteristics of versatile D-shaped fibers with temperature and ambient index change depending on input polarization states. Journal of the Korean Physical Society, 2010, 56, 1274-1277.	0.7	4
47	Effect of Surface Roughness Variation on the Transmission Characteristics of D-shaped Fibers with Ambient Index Change. Journal of the Korean Physical Society, 2010, 56, 1355-1358.	0.7	5
48	Tunable Multiwavelength Erbium-doped Fiber Laser Based on an In-line Mach Zehnder Interferometer. Journal of the Korean Physical Society, 2010, 57, 1743-1746.	0.7	2
49	Development of Photonic-crystal-fiber-based Optical Coupler with a Broad Operating Wavelength Range of 800 nm. Journal of the Korean Physical Society, 2010, 57, 1747-1750.	0.7	6
50	Development of a Ultra Broadband Optical Coupler Based on a Photonic Crsytal Fiber. Korean Journal of Optics and Photonics, 2010, 21, 195-199.	0.1	0
51	Simultaneous Measurement of External Refractive Index and Temperature by Using a Side-polished Fiber Bragg Grating with a Polymer Overlay. Korean Journal of Optics and Photonics, 2010, 21, 190-194.	0.1	0
52	Single-frequency Wavelength Tunable Erbium-doped Fiber Ring Laser. Korean Journal of Optics and Photonics, 2010, 21, 185-189.	0.1	0
53	Dual Wavelength Erbium-doped Fiber Laser with Lasing Wavelength Switchability and Tunability. Korean Journal of Optics and Photonics, 2010, 21, 181-184.	0.1	0
54	Simulation of Luminance and Uniformity of LGP According to the Laser Scattering Pattern. Korean Journal of Optics and Photonics, 2010, 21, 254-258.	0.1	1

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55	Transmission Characteristics of Multiply-cascaded Phase-shifted Long-period Fiber Gratings. Journal of the Korean Physical Society, 2010, 57, 1751-1754.	0.7	1
56	Direction-sensitive fiber-optic bending sensor using a sampled chirped fiber Bragg grating. , 2009, , .		0
57	Discrimination of strain and temperature based on a polarization-maintaining photonic crystal fiber incorporating an erbium-doped fiber. Optics Communications, 2009, 282, 2161-2164.	2.1	19
58	Fabrication of low OH loss holey fibers with varying air hole sizes and their optical properties. Optics Communications, 2009, 282, 1780-1784.	2.1	2
59	Strain and temperature sensitivities of an elliptical hollow-core photonic bandgap fiber based on Sagnac interferometer. Optics Express, 2009, 17, 2481.	3.4	69
60	Sensitive DNA biosensor based on a long-period grating formed on the side-polished fiber surface. Optics Express, 2009, 17, 3855.	3.4	93
61	Temperature and strain discrimination based on a temperature-insensitive birefringent interferometer incorporating an erbium-doped fiber. Applied Optics, 2009, 48, 2303.	2.1	10
62	Birefringent interferometer-based strain sensor with temperature insensitivity. , 2009, , .		0
63	Fabrication of a surface long-period fiber grating based on a D-shaped photonic crystal fiber. , 2009, , .		0
64	Effect of an Ambient Index Change on the Transmission Characteristics of Versatile D-Shaped Fibers. Journal of the Korean Physical Society, 2009, 55, 1286-1289.	0.7	5
65	Dependence of the Refractive Index of a Coating on a Long-Period Fiber Grating on the Initial Coupling Strength. Journal of the Korean Physical Society, 2009, 55, 2621-2624.	0.7	7
66	Temperature-insensitive Multiwavelength Raman Fiber Ring Laser with High Tunability Based on a Polarization-maintaining Photonic-crystal Fiber. Journal of the Korean Physical Society, 2009, 55, 1205-1209.	0.7	2
67	Voltage-tuned multiwavelength Raman ring laser with high tunability based on a single fiber Bragg grating. Applied Optics, 2008, 47, 6099.	2.1	6
68	Switchable multiwavelength erbium doped fiber laser based on a nonlinear optical loop mirror incorporating multiple fiber Bragg gratings. Optics Express, 2008, 16, 1460.	3.4	79
69	Fast-interleaving of dual-wavelength fiber ring laser using switchable fiber Bragg gratings. Optics Express, 2008, 16, 2791.	3.4	6
70	Continuously spacing-tunable multiwavelength erbium-doped fiber laser. , 2008, , .		0
71	All-FBG-based switchable dual wavelength EDF laser with high tunability of lasing wavelength. , 2008, , .		0
72	Multiwavelength Raman fiber ring lasers with continuous wavelength spacing tunability. , 2008, , .		0

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73	Switchable multiwavelength EDF laser with a nonlinear optical loop mirror and fiber Bragg gratings. , 2008, , .		0
74	320-Gbit/s (32 Chs ? 10 Gbit/s) WDM Transmission Over 1.7 km of a Bending-Insensitive Holey Fiber with a Small Bending Diameter. Journal of the Korean Physical Society, 2008, 53, 1319-1322.	0.7	1
75	All-FBG-Based Switchable Dual Wavelength Erbium-Doped Fiber Laser with High Wavelength Tunability. Journal of the Korean Physical Society, 2008, 53, 2253-2256.	0.7	1
76	Novel Dispersion Properties of Photonic Crystal Fiber. Japanese Journal of Applied Physics, 2007, 46, 5408.	1.5	3
77	Feasible fiber grating technologies in optical communication systems. , 2007, , .		0
78	Continuously spacing-tunable multiwavelength semiconductor-optical-amplifier-based fiber ring laser incorporating a superimposed chirped fiber Bragg grating. Optics Letters, 2007, 32, 1032.	3.3	25
79	Multiple-element photonic microwave true-time-delay beamforming incorporating a tunable chirped fiber Bragg grating with symmetrical bending technique. Optics Letters, 2007, 32, 1704.	3.3	3
80	Simultaneous independent measurement of strain and temperature based on long-period fiber gratings inscribed in holey fibers depending on air-hole size. Optics Letters, 2007, 32, 2245.	3.3	21
81	Flexible all fiber Fabry-Perot filters based on superimposed chirped fiber Bragg gratings with continuous FSR tunability and its application to a multiwavelength fiber laser. Optics Express, 2007, 15, 2921.	3.4	29
82	Individual switching of multi-wavelength lasing outputs based on switchable FBG filters. Optics Express, 2007, 15, 3702.	3.4	26
83	A self-restorable architecture for bidirectional wavelength-division-multiplexed passive optical network with colorless ONUs. Optics Express, 2007, 15, 4863.	3.4	25
84	Experimental study on the effect of codirectional Raman gain on system's performance. Optics Express, 2007, 15, 6146.	3.4	4
85	The temperature sensitivity of Sagnac loop interferometer based on polarization maintaining side-hole fiber. Optics Express, 2007, 15, 7962.	3.4	76
86	Tunable multi-wavelength SOA fiber laser based on a Sagnac loop mirror using an elliptical core side-hole fiber. Optics Express, 2007, 15, 8371.	3.4	61
87	Bending sensitivity of long-period fiber gratings inscribed in holey fibers depending on an axial rotation angle. Optics Express, 2007, 15, 12866.	3.4	31
88	Adjacent crosstalk suppression in a colorless WDM passive optical network. Optics Express, 2007, 15, 14306.	3.4	0
89	Novel Multiwavelength Erbium-Doped Fiber and Raman Fiber Ring Lasers With Continuous Wavelength Spacing Tunability at Room Temperature. Journal of Lightwave Technology, 2007, 25, 2219-2225.	4.6	40
90	Single, Depolarized, CW Supercontinuum-Based Wavelength-Division-Multiplexed Passive Optical Network Architecture With C-Band OLT, L-Band ONU, and U-Band Monitoring. Journal of Lightwave Technology, 2007, 25, 2891-2897.	4.6	18

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91	Cladding mode coupling suppression in hole-assisted fiber BRAGG gratings. <i>Microwave and Optical Technology Letters</i> , 2007, 49, 74-76.	1.4	0
92	Switchable dual wavelength erbium-doped fiber laser at room temperature. <i>Microwave and Optical Technology Letters</i> , 2007, 49, 1433-1435.	1.4	7
93	Output performance investigation of self-phase-modulation-based 2R regenerator using bismuth oxide nonlinear fiber. <i>IEEE Photonics Technology Letters</i> , 2006, 18, 1296-1298.	2.5	17
94	Transmission characteristics of fiber Bragg gratings written in holey fibers corresponding to air-hole size and their application. <i>IEEE Photonics Technology Letters</i> , 2006, 18, 1783-1785.	2.5	15
95	Optical soliton propagation in erbium-doped fibre with variable dispersion and nonlinear effects. <i>Journal of Modern Optics</i> , 2006, 53, 1619-1626.	1.3	13
96	Wavelength-spacing tunable multiwavelength erbium-doped fiber laser based on four-wave mixing of dispersion-shifted fiber. <i>Optics Letters</i> , 2006, 31, 697.	3.3	155
97	Tunable optical add-drop multiplexer based on long-period fiber gratings for coarse wavelength division multiplexing systems. <i>Optics Letters</i> , 2006, 31, 703.	3.3	32
98	Simultaneous measurement of bending and temperature based on a single sampled chirped fiber Bragg grating embedded on a flexible cantilever beam. <i>Optics Letters</i> , 2006, 31, 2839.	3.3	30
99	Wavelength-spacing-tunable multichannel filter incorporating a sampled chirped fiber Bragg grating based on a symmetrical chirp-tuning technique without center wavelength shift. <i>Optics Letters</i> , 2006, 31, 3571.	3.3	14
100	Experimental study on seed light source coherence dependence of continuous-wave supercontinuum performance. <i>Optics Express</i> , 2006, 14, 3443.	3.4	27
101	Multi-point interrogation of FBG sensors using cascaded flexible wavelength-division Sagnac loop filters. <i>Optics Express</i> , 2006, 14, 8546.	3.4	51
102	Raman amplification-based WDM-PON architecture with centralized Raman pump-driven, spectrum-sliced erbium ASE and polarization-insensitive EAMs. <i>Optics Express</i> , 2006, 14, 9036.	3.4	13
103	Soliton solutions of coupled inhomogeneous nonlinear Schrödinger equation in plasma. <i>Chaos, Solitons and Fractals</i> , 2006, 29, 916-919.	5.1	39
104	An agent-based collaborative assembly process planning system. <i>International Journal of Advanced Manufacturing Technology</i> , 2006, 28, 176-183.	3.0	14
105	Discrimination of Strain and Temperature Sensitivities Based on Temperature Dependence of Birefringence in Long-Period Fiber Gratings. <i>Japanese Journal of Applied Physics</i> , 2005, 44, 3971-3974.	1.5	14
106	Effects of Fiber Cladding Diameter on Cladding-Mode Coupling in Fiber Bragg Gratings. <i>Japanese Journal of Applied Physics</i> , 2005, 44, 1278-1281.	1.5	7
107	Flexibly tunable multiwavelength Raman fiber laser based on symmetrical bending method. <i>Optics Express</i> , 2005, 13, 6330.	3.4	13
108	Tunable dispersion compensator based on uniform fiber Bragg grating and its application to tunable pulse repetition-rate multiplication. <i>Optics Express</i> , 2005, 13, 9224.	3.4	14

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109	Flexibly tunable multiwavelength erbium-doped fiber laser based on four-wave mixing effect in dispersion-shifted fibers. Optics Express, 2005, 13, 10134.	3.4	51
110	Development of a multiwavelength Raman fiber laser based on phase-shifted fiber Bragg gratings for long-distance remote-sensing applications. Optics Letters, 2005, 30, 1114.	3.3	53
111	Multiwavelength Raman-fiber-laser-based long-distance remote sensor for simultaneous measurement of strain and temperature. Optics Letters, 2005, 30, 1282.	3.3	116
112	Long-distance simultaneous measurement of strain and temperature based on a fiber Raman laser with a single fiber Bragg grating embedded on a quartz plate. Optics Letters, 2005, 30, 1632.	3.3	9
113	Investigation of a multiwavelength Raman fiber laser based on few-mode fiber Bragg gratings. Optics Letters, 2005, 30, 2200.	3.3	31
114	Wavelength and repetition rate tunable optical pulse source using a chirped fiber Bragg grating and a nonlinear optical loop mirror. IEEE Photonics Technology Letters, 2005, 17, 34-36.	2.5	12
115	Performance comparison of various configurations of single-pump dispersion-compensating Raman/EDFA hybrid amplifiers. IEEE Photonics Technology Letters, 2005, 17, 765-767.	2.5	11
116	Lasing wavelength and spacing switchable multiwavelength fiber laser from 1510 to 1620 nm. IEEE Photonics Technology Letters, 2005, 17, 989-991.	2.5	57
117	Performance enhancement of long-distance simultaneous measurement of strain and temperature based on a fiber Raman laser with an etched FBG. IEEE Photonics Technology Letters, 2005, 17, 1920-1922.	2.5	21
118	Compositional dependence of the temperature sensitivity in long-period fiber gratings with doping concentration of $\text{GeO}_2$ and $\text{B}_2\text{O}_3$ .	1.0	9
119	Effectively Tunable Dispersion Compensation Based on Chirped Fiber Bragg Gratings Without Central Wavelength Shift. IEEE Photonics Technology Letters, 2004, 16, 849-851.	2.5	48
120	Spectroscopic Analysis of Gain Bandwidth in Raman Amplifier with Multiwavelength Pumping Scheme Using Actual Band Model. Journal of the Optical Society of Korea, 2004, 8, 156-162.	0.6	5
121	Investigation of Raman fiber laser temperature probe based on fiber Bragg gratings for long-distance remote sensing applications. Optics Express, 2004, 12, 1747.	3.4	29
122	Flexibly tunable multichannel filter and bandpass filter based on long-period fiber gratings. Optics Express, 2004, 12, 1902.	3.4	26
123	Discrimination of bending and temperature sensitivities with phase-shifted long-period fiber gratings depending on initial coupling strength. Optics Express, 2004, 12, 3204.	3.4	31
124	Raman amplifier-based long-distance remote, strain and temperature sensing system using an erbium-doped fiber and a fiber Bragg grating. Optics Express, 2004, 12, 3515.	3.4	38
125	2 ~ 5 times tunable repetition-rate multiplication of a 10 GHz pulse source using a linearly tunable, chirped fiber Bragg grating. Optics Express, 2004, 12, 3900.	3.4	36
126	Polarization-insensitive multi-wavelength switching based on polarization-selective long-period fiber gratings. Optics Express, 2004, 12, 6082.	3.4	8



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127	Dynamic properties of single pump, dispersion-compensating Raman/EDFA hybrid amplifier recycling residual Raman pump. Optics Express, 2004, 12, 6594.	3.4	9
128	Optical fiber modal birefringence measurement based on Lyot-Sagnac interferometer. IEEE Photonics Technology Letters, 2003, 15, 269-271.	2.5	60
129	Multiwavelength Raman fiber-ring laser based on tunable cascaded long-period fiber gratings. IEEE Photonics Technology Letters, 2003, 15, 383-385.	2.5	141
130	Voltage-controllable wavelength-selective optical switching based on multiply cascaded long-period fiber gratings. Optics Letters, 2003, 28, 2034.	3.3	5
131	Novel Raman Fiber Laser and Fiber-Optic Sensors Using Multi-Channel Fiber Gratings. Journal of the Optical Society of Korea, 2003, 7, 97-101.	0.6	3
132	Simultaneous measurement of temperature and strain using dual long-period fiber gratings with controlled temperature and strain sensitivities. Optics Express, 2003, 11, 476.	3.4	134
133	Resonance peak shift and dual peak separation of long-period fiber gratings for sensing applications. IEEE Photonics Technology Letters, 2001, 13, 699-701.	2.5	27
134	Fibre-optic sensing applications of a pair of long-period fibre gratings. Measurement Science and Technology, 2001, 12, 778-781.	2.6	77