

Kwang Yong Song

List of Publications by Year in descending order

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127
papers

4,568
citations

101543

36
h-index

98798

67
g-index

128
all docs

128
docs citations

128
times ranked

2357
citing authors

#	ARTICLE	IF	CITATIONS
1	Observation of pulse delaying and advancement in optical fibers using stimulated Brillouin scattering. Optics Express, 2005, 13, 82.	3.4	519
2	Distributed strain measurement with millimeter-order spatial resolution based on Brillouin optical correlation domain analysis. Optics Letters, 2006, 31, 2526.	3.3	304
3	Arbitrary-bandwidth Brillouin slow light in optical fibers. Optics Express, 2006, 14, 1395.	3.4	273
4	Carbon nanotube mode lockers with enhanced nonlinearity via evanescent field interaction in D-shaped fibers. Optics Letters, 2007, 32, 148.	3.3	238
5	All-optical dynamic grating generation based on Brillouin scattering in polarization-maintaining fiber. Optics Letters, 2008, 33, 926.	3.3	230
6	Ultrahigh-speed distributed Brillouin reflectometry. Light: Science and Applications, 2016, 5, e16184-e16184.	16.6	166
7	Long optically controlled delays in optical fibers. Optics Letters, 2005, 30, 1782.	3.3	130
8	Nonvolatile Ferroelectric Memory Circuit Using Black Phosphorus Nanosheet-Based Field-Effect Transistors with P(VDF-TrFE) Polymer. ACS Nano, 2015, 9, 10394-10401.	14.6	130
9	25 GHz bandwidth Brillouin slow light in optical fibers. Optics Letters, 2007, 32, 217.	3.3	124
10	Time-Domain Distributed Fiber Sensor With 1 cm Spatial Resolution Based on Brillouin Dynamic Grating. Journal of Lightwave Technology, 2010, 28, 2062-2067.	4.6	116
11	Black phosphorus saturable absorber for ultrafast mode-locked pulse laser via evanescent field interaction. Annalen Der Physik, 2015, 527, 770-776.	2.4	115
12	Highly efficient Brillouin slow and fast light using As ₂ Se ₃ chalcogenide fiber. Optics Express, 2006, 14, 5860.	3.4	113
13	Broadband mode division multiplexer using all-fiber mode selective couplers. Optics Express, 2016, 24, 3543.	3.4	99
14	High-repetition-rate distributed Brillouin sensor based on optical correlation-domain analysis with differential frequency modulation. Optics Letters, 2011, 36, 2062.	3.3	93
15	Distributed Fiber Strain Sensor With 1-kHz Sampling Rate Based on Brillouin Optical Correlation Domain Analysis. IEEE Photonics Technology Letters, 2007, 19, 1928-1930.	2.5	91
16	High performance fused-type mode-selective coupler using elliptical core two-mode fiber at 1550 nm. IEEE Photonics Technology Letters, 2002, 14, 501-503.	2.5	87
17	Optical time-domain measurement of Brillouin dynamic grating spectrum in a polarization-maintaining fiber. Optics Letters, 2009, 34, 1381.	3.3	86
18	Gain-assisted pulse advancement using single and double Brillouin gain peaks in optical fibers. Optics Express, 2005, 13, 9758.	3.4	76

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19	Passively mode-locked lasers with 172-GHz fundamental-mode repetition rate pulsed by carbon nanotubes. <i>Optics Letters</i> , 2007, 32, 430.	3.3	74
20	Differential measurement scheme for Brillouin Optical Correlation Domain Analysis. <i>Optics Express</i> , 2012, 20, 27094.	3.4	71
21	Tunable optical delays based on Brillouin dynamic grating in optical fibers. <i>Optics Express</i> , 2009, 17, 10344.	3.4	70
22	1300-nm pulsed fiber lasers mode-locked by purified carbon nanotubes. <i>IEEE Photonics Technology Letters</i> , 2005, 17, 1623-1625.	2.5	60
23	Observation of narrowband intrinsic spectra of Brillouin dynamic gratings. <i>Optics Letters</i> , 2010, 35, 2958.	3.3	60
24	Operation of Brillouin dynamic grating in single-mode optical fibers. <i>Optics Letters</i> , 2011, 36, 4686.	3.3	59
25	Brillouin optical correlation domain analysis with more than 1 million effective sensing points based on differential measurement. <i>Optics Express</i> , 2015, 23, 33241.	3.4	59
26	High-resolution Brillouin optical time domain analysis based on Brillouin dynamic grating. <i>Optics Letters</i> , 2010, 35, 52.	3.3	56
27	Range-Enlargement of Simplified Brillouin Optical Correlation Domain Analysis Based on a Temporal Gating Scheme. <i>SICE Journal of Control Measurement and System Integration</i> , 2008, 1, 271-274.	0.7	51
28	Suppression of Signal Fluctuation in Brillouin Optical Correlation Domain Analysis System Using Polarization Diversity Scheme. <i>IEEE Photonics Technology Letters</i> , 2006, 18, 2653-2655.	2.5	48
29	All-fiber pulsed lasers passively mode locked by transferable vertically aligned carbon nanotube film. <i>Optics Letters</i> , 2007, 32, 1399.	3.3	48
30	Intermodal stimulated Brillouin scattering in two-mode fibers. <i>Optics Letters</i> , 2013, 38, 1805.	3.3	48
31	Characterization of stimulated Brillouin scattering in a few-mode fiber. <i>Optics Letters</i> , 2013, 38, 4841.	3.3	47
32	Nonlinear Black Phosphorus for Ultrafast Optical Switching. <i>Scientific Reports</i> , 2017, 7, 43371.	3.3	45
33	All-fiber wavelength-tunable acoustooptic switches based on intermodal coupling in fibers. <i>Journal of Lightwave Technology</i> , 2002, 20, 1864-1868.	4.6	42
34	Optimization of Brillouin optical correlation domain analysis system based on intensity modulation scheme. <i>Optics Express</i> , 2006, 14, 4256.	3.4	42
35	Distributed measurement of hydrostatic pressure based on Brillouin dynamic grating in polarization maintaining fibers. <i>Optics Express</i> , 2016, 24, 21399.	3.4	41
36	Mapping of intermodal beat length distribution in an elliptical-core two-mode fiber based on Brillouin dynamic grating. <i>Optics Express</i> , 2014, 22, 17292.	3.4	38

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37	Applications of Brillouin Dynamic Grating to Distributed Fiber Sensors. <i>Journal of Lightwave Technology</i> , 2017, 35, 3268-3280.	4.6	37
38	Recent Advances in Blackâ€Phosphorusâ€Based Photonics and Optoelectronics Devices. <i>Small Methods</i> , 2018, 2, 1700315.	8.6	36
39	Gain-assisted superluminal propagation in tellurite glass fiber based on stimulated Brillouin scattering. <i>Optics Express</i> , 2008, 16, 225.	3.4	34
40	Brillouin Optical Correlation Domain Analysis Enhanced by Time-Domain Data Processing for Concurrent Interrogation of Multiple Sensing Points. <i>Journal of Lightwave Technology</i> , 2017, 35, 5311-5316.	4.6	30
41	Characterization of Nonlinear Temperature Dependence of Brillouin Dynamic Grating Spectra in Polarization-Maintaining Fibers. <i>Journal of Lightwave Technology</i> , 2015, 33, 4922-4927.	4.6	29
42	High-sensitivity optical time-domain reflectometry based on Brillouin dynamic gratings in polarization maintaining fibers. <i>Optics Express</i> , 2012, 20, 27377.	3.4	27
43	Linearly configured BOCDA system using a differential measurement scheme. <i>Optics Express</i> , 2014, 22, 1467.	3.4	25
44	Growth, Quantitative Growth Analysis and Applications of Graphene on $\hat{1}^3$ -Al ₂ O ₃ catalysts. <i>Scientific Reports</i> , 2015, 5, 11839.	3.3	24
45	Suppression of Systematic Errors in Brillouin Optical Correlation Domain Analysis Based on Injection-Locking. <i>Journal of Lightwave Technology</i> , 2019, 37, 4421-4425.	4.6	23
46	Centro-Apical Self-Organization of Organic Semiconductors in a Line-Printed Organic Semiconductor: Polymer Blend for One-Step Printing Fabrication of Organic Field-Effect Transistors. <i>Scientific Reports</i> , 2015, 5, 14010.	3.3	21
47	Broad-band LP02 mode excitation using a fused-type mode-selective coupler. <i>IEEE Photonics Technology Letters</i> , 2003, 15, 1734-1736.	2.5	19
48	Simplified Brillouin optical time-domain sensor based on direct modulation of a laser diode. <i>Optics Express</i> , 2010, 18, 24012.	3.4	19
49	In Situ Synthesis of Graphene with Telecommunication Lasers for Nonlinear Optical Devices. <i>Advanced Optical Materials</i> , 2015, 3, 1264-1272.	7.3	18
50	Tailored pump compensation for Brillouin optical time-domain analysis with distributed Brillouin amplification. <i>Optics Express</i> , 2017, 25, 14098.	3.4	18
51	Variable-frequency lock-in detection for the suppression of beat noise in Brillouin optical correlation domain analysis. <i>Optics Express</i> , 2011, 19, 18721.	3.4	17
52	50 km-Range Brillouin Optical Correlation Domain Analysis With First-Order Backward Distributed Raman Amplification. <i>Journal of Lightwave Technology</i> , 2020, 38, 5199-5204.	4.6	16
53	Bidirectional measurement for Brillouin optical correlation domain analysis. <i>Optics Express</i> , 2012, 20, 11091.	3.4	15
54	Measurement error induced by the power-frequency delay of the light source in optical correlation-domain distributed Brillouin sensors. <i>Optics Letters</i> , 2018, 43, 5078.	3.3	15

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55	Graphene Capacitor-Based Electrical Switching of Mode-Locking in All-Fiberized Femtosecond Lasers. ACS Applied Materials & Interfaces, 2020, 12, 54005-54011.	8.0	14
56	Time biasing due to the slow-light effect in distributed fiber-optic Brillouin sensors. Optics Letters, 2006, 31, 715.	3.3	13
57	Effects of induced birefringence on Brillouin dynamic gratings in single-mode optical fibers. Optics Letters, 2012, 37, 2229.	3.3	13
58	All-Fiber Mode Division Multiplexer optimized for C-band. , 2014, , .		13
59	Effects of Differential Measurement Scheme on Brillouin Optical Correlation-Domain Analysis. Journal of Lightwave Technology, 2021, 39, 2609-2617.	4.6	13
60	Optical time-domain reflectometry based on a Brillouin dynamic grating in an elliptical-core two-mode fiber. Optics Letters, 2017, 42, 3036.	3.3	11
61	Acoustooptic Generation and Characterization of the Higher Order Modes in a Four-Mode Fiber for Mode-Division Multiplexed Transmission. Journal of Lightwave Technology, 2014, 32, 4534-4538.	4.6	9
62	Graphene-Incorporated Soft Capacitors for Mechanically Adjustable Electro-Optic Modulators. ACS Applied Materials & Interfaces, 2018, 10, 40781-40788.	8.0	9
63	Acousto-optic resonant coupling of three spatial modes in an optical fiber. Optics Express, 2014, 22, 1990.	3.4	8
64	All-fiber wavelength-tunable acousto-optic switch. , 0, , .		6
65	Fused bitapered single-mode fiber directional coupler for core and cladding mode coupling. IEEE Photonics Technology Letters, 2005, 17, 2631-2633.	2.5	6
66	Ultra wide range tunable delay line using dynamic grating reflectors in optical fibers. , 2010, , .		6
67	Oxygen-Dependent Synthesis of Graphene on γ -Alumina Catalyst. Advanced Materials Interfaces, 2017, 4, 1700603.	3.7	6
68	Efficient Optical Saturable Absorbers with Graphene on Polymer Waveguides for Femtosecond Laser Pulse Formation. Annalen Der Physik, 2018, 530, 1800249.	2.4	6
69	Atomic Carbon Spraying: Direct Growth of Graphene on Customized 3D Surfaces of Ultrafast Optical Devices. Advanced Optical Materials, 2020, 8, 1902091.	7.3	6
70	True time reversal via dynamic Brillouin gratings in polarization maintaining fibers. , 2010, , .		6
71	Brillouin Optical Correlation Domain Analysis Using Orthogonally Polarized Probe Sidebands. Journal of Lightwave Technology, 2022, 40, 894-899.	4.6	5
72	High performance fused-type mode selective coupler for two-mode fiber devices. , 0, , .		4

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73	Simplified BOTDA System Based on Direct Modulation of a Laser Diode With an Extended Measurement Range. <i>Journal of Lightwave Technology</i> , 2015, 33, 1979-1984.	4.6	4
74	Characterization of Distributed Brillouin Sensors Based on Elliptical-Core Two-Mode Fiber. <i>IEEE Sensors Journal</i> , 2019, 19, 2155-2161.	4.7	4
75	Directly Synthesized Graphene-Based Photonics and Optoelectronics Devices. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 2768.	2.5	4
76	Dual-Probe Linearly Configured BOCDA System With Enlarged Modulation Amplitude. <i>Journal of Lightwave Technology</i> , 2018, 36, 5203-5209.	4.6	3
77	Linearly Configured Brillouin Optical Correlation Domain Analysis System Incorporating Time-Domain Data Processing. <i>Journal of Lightwave Technology</i> , 2019, 37, 4728-4733.	4.6	3
78	Recent Progress in Distributed Brillouin Sensors Based on Few-Mode Optical Fibers. <i>Sensors</i> , 2021, 21, 2168.	3.8	3
79	Effects of Brillouin slow light on intensity-modulated waveforms in optical fibers. <i>Optics Express</i> , 2008, 16, 17451.	3.4	2
80	Crack Propagation Monitoring of DCB Composite Specimens Using Distributed Optical Fiber Sensor. <i>Materials Science Forum</i> , 2010, 654-656, 2592-2595.	0.3	2
81	Extension of measurement range in Brillouin optical correlation domain analysis by pump-probe switching. <i>Applied Physics B: Lasers and Optics</i> , 2014, 116, 91-96.	2.2	2
82	High-Accuracy Distributed Bend Sensor Eligible for High-Curvature Structures Based on Brillouin Optical Correlation Domain Analysis. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2020, 26, 1-9.	2.9	2
83	Brillouin optical correlation domain analysis system for simultaneous interrogation of 150 sensing positions. , 2016, , .		2
84	Ultrashort-cavity passively mode-locked fiber lasers using carbon nanotubes. , 2006, , .		1
85	Simplified Brillouin Optical Correlation Domain Analysis System with Optimized Time-Gating Scheme. , 2007, , .		1
86	Novel measurement method of Brillouin optical correlation domain analysis based on bidirectional detection scheme. , 2012, , .		1
87	Characterization of temperature-dependent birefringence in polarization maintaining fibers based on Brillouin dynamic gratings. , 2015, , .		1
88	BOCDA system enhanced by concurrent interrogation of multiple correlation peaks with a 10-km sensing range. <i>Proceedings of SPIE</i> , 2017, , .	0.8	1
89	The Rayleigh and Polarization Fading Elimination in Phase-Extracted OTDR. , 2018, , .		1
90	Dynamic In-Line Routing Between Distant Cores of a Multi-Core Fiber. <i>Journal of Lightwave Technology</i> , 2020, 38, 6076-6081.	4.6	1

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91	Distributed Analysis on the Spatial Mode Structure in a PANDA-Type Few-Mode Fiber By Brillouin Dynamic Gratings. Journal of Lightwave Technology, 2021, 39, 612-619.	4.6	1
92	Measurement of Intramodal and Intermodal Brillouin Gain Spectra in a Few-mode Fiber. , 2014, , .		1
93	High-sensitivity Distributed Fiber Sensors Based on Brillouin Dynamic Gratings. , 2013, , .		1
94	Enhanced Measurement Range of Single End Accessible Brillouin Optical Correlation Domain Analysis Incorporating Time-Domain Data Processing. , 2018, , .		1
95	Highly efficient fused-type core-cladding mode coupler. , 2005, , .		0
96	Brillouin optical correlation domain analysis system with kilometer measurement range based on intensity modulation scheme. , 2006, , .		0
97	All-Fiber Passive Mode-Lockers Using Attachable Vertically Aligned Carbon Nanotube Film. , 2007, , .		0
98	Preparation and Application of Sol-Gel Glass Incorporating Single-Walled Carbon Nanotubes. , 2007, , .		0
99	Progress in the slow and fast light based on Brillouin scattering in optical fibers. , 2009, , .		0
100	High-repetition-rate distributed Brillouin sensor by correlation domain analysis with differential frequency modulation. , 2011, , .		0
101	High sensitivity optical time-domain reflectometry based on Brillouin dynamic grating in polarization maintaining fiber. Proceedings of SPIE, 2012, , .	0.8	0
102	Brillouin dynamic grating in optical fibers. , 2012, , .		0
103	Distributed fiber sensors based on Brillouin dynamic gratings. , 2014, , .		0
104	Distributed measurement of intermodal beat length in an elliptic-core two-mode fiber by Brillouin dynamic grating. , 2014, , .		0
105	High-performance in-line Brillouin optical correlation domain analysis. , 2014, , .		0
106	Temperature and strain dependence of the Brillouin frequencies in tapered optical fibers. Proceedings of SPIE, 2015, , .	0.8	0
107	Brillouin optical correlation domain analysis with more than 1 million effective sensing points. Proceedings of SPIE, 2015, , .	0.8	0
108	OTDR based on Brillouin dynamic grating in an e-core two-mode fiber for simultaneous measurement of strain and temperature distribution. Proceedings of SPIE, 2017, , .	0.8	0

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109	A BOCDA system using time-domain data processing for an enlarged measurement range to 10 km. , 2017, , .		0
110	Optimized pump compensation of a BOTDA system with distributed Brillouin amplification. , 2017, , .		0
111	Ultrafast photonic devices based on nanomaterials. , 2018, , .		0
112	Long Range One-End Accessible BOCDA Adopting Time Domain Data Processing. , 2018, , .		0
113	50 km Range BOCDA Assisted by Raman Amplification. , 2019, , .		0
114	Brillouin optical correlation domain analysis using an injection-locked laser diode for distortion suppression. , 2019, , .		0
115	Optical Time-Domain Measurement of Brillouin Dynamic Grating Spectrum in a Polarization Maintaining Fiber. , 2009, , .		0
116	Brillouin Dynamic Grating in Optical Fibers and its Applications. , 2009, , .		0
117	Bidirectional Brillouin Optical Correlation Domain Analysis Using Phase Modulation. , 2013, , .		0
118	Intermodal stimulated Brillouin scattering in two-mode fibers. , 2013, , .		0
119	Effects of asymmetric frequency modulation in optical correlation-domain distributed Brillouin sensors. , 2018, , .		0
120	Linearly-configured BOCDA system with large modulation amplitude using dual-probe wave. , 2018, , .		0
121	Distributed measurement of the spatial mode structure in a PANDA two-mode fiber by Brillouin dynamic grating. , 2018, , .		0
122	Brillouin Optical Correlation Domain Analysis Assisted by First-Order Distributed Raman Amplification. , 2021, , .		0
123	Optical frequency domain reflectometry based on Brillouin dynamic grating in polarization maintaining fiber. , 2021, , .		0
124	Characterization of UV light sensors using Brillouin optical correlation domain analysis. , 2021, , .		0
125	Polarization-independent Brillouin optical correlation domain analysis based on orthogonal probe sidebands. , 2021, , .		0
126	Distributed Ultraviolet Sensor Based on Brillouin Optical Correlation-Domain Analysis Using An Azobenzene Polymer-Coated Optical Fiber. Journal of Lightwave Technology, 2022, 40, 2657-2662.	4.6	0

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127	Brillouin dynamic gratings in few-mode PM fibers for distributed sensing. , 2020, , .		0