Zuyuan He

List of Publications by Citations

406	5,593	36	60
papers	citations	h-index	g-index
592	7,419	2.8	6.29
ext. papers	ext. citations	avg, IF	L-index

#	Paper	IF	Citations
406	Distributed strain measurement with millimeter-order spatial resolution based on Brillouin optical correlation domain analysis. *Optics Letters*, **2006**, 31, 2526-8	3	210
405	Proposal of Brillouin optical correlation-domain reflectometry (BOCDR). *Optics Express*, **2008**, 16, 12148-53	3.3	201
404	Complete discrimination of strain and temperature using Brillouin frequency shift and birefringence in a polarization-maintaining fiber. *Optics Express*, **2009**, 17, 1248-55	3.3	189
403	All-Fiber Curvature Sensor Based on Multimode Interference. *IEEE Photonics Technology Letters*, **2011**, 23, 679-681	2.2	176
402	All-optical dynamic grating generation based on Brillouin scattering in polarization-maintaining fiber. *Optics Letters*, **2008**, 33, 926-8	3	157
401	Miniature fiber-optic temperature sensors based on silica/polymer microfiber knot resonators. *Optics Express*, **2009**, 17, 18142-7	3.3	118
400	Reduction of Backscattering Induced Noise by Carrier Suppression in Waveguide-Type Optical Ring Resonator Gyro. *Journal of Lightwave Technology*, **2011**, 29, 85-90	4	98
399	Phase-detection distributed fiber-optic vibration sensor without fading-noise based on time-gated digital OFDR. *Optics Express*, **2017**, 25, 8315-8325	3.3	89
398	Broadband gate-tunable terahertz plasmons in graphene heterostructures. *Nature Photonics*, **2018**, 12, 22-28	33.9	83
397	Distributed fiber-optic vibration sensing based on phase extraction from time-gated digital OFDR. *Optics Express*, **2015**, 23, 33301-9	3.3	82
396	Arbitrarily routed mode-division multiplexed photonic circuits for dense integration. *Nature Communications*, **2019**, 10, 3263	17.4	81
395	Distributed Fiber-Optic Acoustic Sensor With Enhanced Response Bandwidth and High Signal-to-Noise Ratio. *Journal of Lightwave Technology*, **2017**, 35, 2037-2043	4	71
394	Demonstration of Brillouin Distributed Discrimination of Strain and Temperature Using a Polarization-Maintaining Optical Fiber. *IEEE Photonics Technology Letters*, **2010**, 22, 526-528	2.2	71
393	Optical time-domain measurement of Brillouin dynamic grating spectrum in a polarization-maintaining fiber. *Optics Letters*, **2009**, 34, 1381-3	3	67
392	High-repetition-rate distributed Brillouin sensor based on optical correlation-domain analysis with differential frequency modulation. *Optics Letters*, **2011**, 36, 2062-4	3	65
391	Measurement range enlargement in Brillouin optical correlation-domain reflectometry based on temporal gating scheme. *Optics Express*, **2009**, 17, 9040-6	3.3	60
390	Reduction of polarization-fluctuation induced drift in resonator fiber optic gyro by a resonator with twin 90 degrees polarization-axis rotated splices. *Optics Express*, **2010**, 18, 1677-83	3.3	59

389	Stimulated Brillouin scattering and its dependences on strain and temperature in a high-delta optical fiber with F-doped depressed inner cladding. *Optics Letters*, **2007**, 32, 600-2	3	59
388	Correlation-based distributed measurement of a dynamic grating spectrum generated in stimulated Brillouin scattering in a polarization-maintaining optical fiber. *Optics Letters*, **2009**, 34, 1126-8	3	56
387	Four-Wave Mixing in a Microfiber Attached Onto a Graphene Film. *IEEE Photonics Technology Letters*, **2014**, 26, 249-252	2.2	55
386	One-End-Access High-Speed Distributed Strain Measurement with 13-mm Spatial Resolution Based on Brillouin Optical Correlation-Domain Reflectometry. *IEEE Photonics Technology Letters*, **2009**, 21, 474-476	2.2	54
385	Synthesis of optical-coherence function and its applications in distributed and multiplexed optical sensing. *Journal of Lightwave Technology*, **2006**, 24, 2541-2557	4	53
384	High-fidelity distributed fiber-optic acoustic sensor with fading noise suppressed and sub-meter spatial resolution. *Optics Express*, **2018**, 26, 16138-16146	3.3	51
383	Time-gated digital optical frequency domain reflectometry with 1.6-m spatial resolution over entire 110-km range. *Optics Express*, **2015**, 23, 25988-95	3.3	51
382	. *IEEE Photonics Journal*, **2016**, 8, 1-12	1.8	49
381	Multiband Three-Dimensional Carrierless Amplitude Phase Modulation for Short Reach Optical Communications. *Journal of Lightwave Technology*, **2016**, 34, 3103-3109	4	47
380	Graphene-Enhanced Brillouin Optomechanical Microresonator for Ultrasensitive Gas Detection. *Nano Letters*, **2017**, 17, 4996-5002	11.5	46
379	Ultra-high-resolution large-dynamic-range optical fiber static strain sensor using Pound-Drever-Hall technique. *Optics Letters*, **2011**, 36, 4044-6	3	46
378	Polyimide-coated fiber Bragg grating for relative humidity sensing. *Photonic Sensors*, **2015**, 5, 60-66	2.3	45
377	Measurement range enlargement in Brillouin optical correlation-domain reflectometry based on double-modulation scheme. *Optics Express*, **2010**, 18, 5926-33	3.3	45
376	Two-Dimensional Finite-Element Modal Analysis of Brillouin Gain Spectra in Optical Fibers. *IEEE Photonics Technology Letters*, **2006**, 18, 2487-2489	2.2	44
375	Nonlinear Distortion Mitigation by Machine Learning of SVM Classification for PAM-4 and PAM-8 Modulated Optical Interconnection. *Journal of Lightwave Technology*, **2018**, 36, 650-657	4	43
374	Biochemical sensing in graphene-enhanced microfiber resonators with individual molecule sensitivity and selectivity. *Light: Science and Applications*, **2019**, 8, 107	16.7	42
373	Sub-nano resolution fiber-optic static strain sensor using a sideband interrogation technique. *Optics Letters*, **2012**, 37, 434-6	3	38
372	Ultrahigh resolution optical fiber strain sensor using dual Pound-Drever-Hall feedback loops. *Optics Letters*, **2016**, 41, 1066-9	3	38

371	Operation of Brillouin Optical Correlation-Domain Reflectometry: Theoretical Analysis and Experimental Validation. *Journal of Lightwave Technology*, **2010**,	4	37
370	Strain Dynamic Range Enlargement of Slope-Assisted BOTDA by Using Brillouin Phase-Gain Ratio. *Journal of Lightwave Technology*, **2017**, 35, 4451-4458	4	36
369	Frequency Response Enhancement of Direct-Detection Phase-Sensitive OTDR by Using Frequency Division Multiplexing. *Journal of Lightwave Technology*, **2018**, 36, 1197-1203	4	36
368	Realization of nano static strain sensing with fiber Bragg gratings interrogated by narrow linewidth tunable lasers. *Optics Express*, **2011**, 19, 20214-23	3.3	36
367	Synthesized optical coherence tomography for imaging of scattering objects by use of a stepwise frequency-modulated tunable laser diode. *Optics Letters*, **1999**, 24, 1502-4	3	36
366	Distributed Fiber-Optic Vibration Sensing Based on Phase Extraction From Optical Reflectometry. *Journal of Lightwave Technology*, **2017**, 35, 3281-3288	4	35
365	. *Journal of Lightwave Technology*, **2008**, 26, 1854-1861	4	35
364	Temperature-Insensitive Micro Fabry□□ot Strain Sensor Fabricated by Chemically Etching Er-Doped Fiber. *IEEE Photonics Technology Letters*, **2009**, 21, 1725-1727	2.2	34
363	Effects of Intensity Modulation of Light Source on Brillouin Optical Correlation Domain Analysis. *Journal of Lightwave Technology*, **2007**, 25, 1238-1246	4	34
362	Long-range Raman distributed temperature sensor with high spatial and temperature resolution using graded-index few-mode fiber. *Optics Express*, **2018**, 26, 20562-20571	3.3	33
361	One-laser-based generation/detection of Brillouin dynamic grating and its application to distributed discrimination of strain and temperature. *Optics Express*, **2011**, 19, 2363-70	3.3	33
360	Fiber-Optic Fabry□□ot Sensor Based on Periodic Focusing Effect of Graded-Index Multimode Fibers. *IEEE Photonics Technology Letters*, **2010**, 22, 1708-1710	2.2	33
359	Sensitive sulfide ion detection by optofluidic catalytic laser using horseradish peroxidase (HRP) enzyme. *Biosensors and Bioelectronics*, **2017**, 96, 351-357	11.8	32
358	Optical Graphene Gas Sensors Based on Microfibers: A Review. *Sensors*, **2018**, 18,	3.8	32
357	MOEMS Accelerometer Based on Microfiber Knot Resonator. *IEEE Photonics Technology Letters*, **2009**, 21, 1547-1549	2.2	32
356	Distributed strain measurement using a tellurite glass fiber with Brillouin optical correlation-domain reflectometry. *Optics Communications*, **2010**, 283, 2438-2441	2	32
355	. *Journal of Lightwave Technology*, **2002**, 20, 1715-1723	4	32
354	Optimization of Brillouin optical correlation domain analysis system based on intensity modulation scheme. *Optics Express*, **2006**, 14, 4256-63	3.3	31

353	Highly sensitive quasi-distributed fiber-optic acoustic sensing system by interrogating a weak reflector array. *Optics Letters*, **2018**, 43, 3594-3597	3	29
352	Dynamic strain measurement with kHz-level repetition rate and centimeter-level spatial resolution based on Brillouin optical correlation domain analysis. *Optics Express*, **2018**, 26, 6916-6928	3.3	29
351	Sensitivity enhanced strain and temperature measurements based on FBG and frequency chirp magnification. *Optics Express*, **2013**, 21, 27111-8	3.3	29
350	World-Wide Benchmarking of ITER ${rm Nb}_{3}{rm Sn}$ Strand Test Facilities. *IEEE Transactions on Applied Superconductivity*, **2010**, 20, 1500-1503	1.8	29
349	Acoustic modal analysis and control in w-shaped triple-layer optical fibers with highly-germanium-doped core and F-doped inner cladding. *Optics Express*, **2008**, 16, 10006-17	3.3	29
348	Dependence of Brillouin Frequency Shift in Optical Fibers on Draw-Induced Residual Elastic and Inelastic Strains. *IEEE Photonics Technology Letters*, **2007**, 19, 1389-1391	2.2	26
347	Optimization study on graphene-coated microfiber Bragg grating structures for ammonia gas sensing. *Photonic Sensors*, **2015**, 5, 84-90	2.3	25
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341	Sensing the earth crustal deformation with nano-strain resolution fiber-optic sensors. *Optics Express*, **2015**, 23, A428-36	3.3	23
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339	Fiber Optofluidic Microlaser With Lateral Single Mode Emission. *IEEE Journal of Selected Topics in Quantum Electronics*, **2018**, 24, 1-6	3.8	23
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337	Millimeter-resolution long-range OFDR using ultra-linearly 100 GHz-swept optical source realized by injection-locking technique and cascaded FWM process. *Optics Express*, **2017**, 25, 3514-3524	3.3	23
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335	Recent Main Events in Applied Superconductivity in China. *IEEE Transactions on Applied Superconductivity*, **2009**, 19, 1069-1080	1.8	22
334	Dependence of the Brillouin Frequency Shift on Temperature in a Tellurite Glass Fiber and a Bismuth-Oxide Highly-Nonlinear Fiber. *Applied Physics Express*, **2009**, 2, 112402	2.4	22
333	Stress-location measurement along an optical fiber by synthesis of triangle-shaped optical coherence function. *IEEE Photonics Technology Letters*, **2001**, 13, 233-235	2.2	22
332	Frequency-resolved adaptive probabilistic shaping for DMT-modulated IM-DD optical interconnects. *Optics Express*, **2019**, 27, 12241-12254	3.3	22
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329	Microfluidic Flow Rate Detection With a Large Dynamic Range by Optical Manipulation. *IEEE Photonics Technology Letters*, **2015**, 27, 2508-2511	2.2	21
328	Range Elongation of Distributed Discrimination of Strain and Temperature in Brillouin Optical Correlation-Domain Analysis Based on Dual Frequency Modulations. *IEEE Sensors Journal*, **2014**, 14, 244-248	4	21
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326	Threshold-Based Pruned Retraining Volterra Equalization for 100 Gbps/Lane and 100-m Optical Interconnects Based on VCSEL and MMF. *Journal of Lightwave Technology*, **2019**, 37, 3222-3228	4	20
325	Bandwidth-adjustable dynamic grating in erbium-doped fiber by synthesis of optical coherence function. *Optics Express*, **2005**, 13, 5756-61	3.3	20
324	An Ultra-Compact 3-dB Power Splitter for Three Modes Based on Pixelated Meta-Structure. *IEEE Photonics Technology Letters*, **2020**, 32, 341-344	2.2	19
323	Electromagnetic Optimization and Preliminary Mechanical Analysis of the CFETR CS Model Coil. *IEEE Transactions on Plasma Science*, **2016**, 44, 1559-1563	1.3	18
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319	Dense electro-optic frequency comb generated by two-stage modulation for dual-comb spectroscopy. *Optics Letters*, **2017**, 42, 3984-3987	3	17
318	Mechanical Properties of Preliminary Designed Insulation for CFETR CSMC. *IEEE Transactions on Applied Superconductivity*, **2016**, 26, 1-4	1.8	16

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313	Cabling Technology of Nb3Sn Conductor for CFETR Central Solenoid Model Coil. *IEEE Transactions on Applied Superconductivity*, **2016**, 26, 1-5	1.8	15
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308	Highly Compact and Efficient Four-Mode Multiplexer Based on Pixelated Waveguides. *IEEE Photonics Technology Letters*, **2020**, 32, 166-169	2.2	15
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306	Dyadic Probabilistic Shaping of PAM-4 and PAM-8 for Cost-Effective VCSEL-MMF Optical Interconnection. *IEEE Photonics Journal*, **2019**, 11, 1-11	1.8	14
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304	Quasi-distributed fiber-optic acoustic sensing system based on pulse compression technique and phase-noise compensation. *Optics Letters*, **2019**, 44, 5969-5972	3	14
303	Ultrahigh Resolution Fiber Bragg Grating Sensors for Quasi-Static Crustal Deformation Measurement. *Journal of Lightwave Technology*, **2017**, 35, 3334-3346	4	13
302	Machine Learning Adaptive Receiver for PAM-4 Modulated Optical Interconnection Based on Silicon Microring Modulator. *Journal of Lightwave Technology*, **2018**, 36, 4106-4113	4	13
301	Ultrahigh resolution fiber-optic quasi-static strain sensors for geophysical research. *Photonic Sensors*, **2013**, 3, 295-303	2.3	13
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285	High-resolution wavemeter using Rayleigh speckle obtained by optical time domain reflectometry. *Optics Letters*, **2020**, 45, 799-802	3	11
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