

Tuan Guo

List of Publications by Year in descending order

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132
papers

4,953
citations

81743

39
h-index

98622

67
g-index

135
all docs

135
docs citations

135
times ranked

3485
citing authors

#	ARTICLE	IF	CITATIONS
1	High Sensitivity Hydrogen Sensors Based on Optical Micro/Nanofiber Couplers Working at the Dispersion Turning Point. <i>Journal of Lightwave Technology</i> , 2023, 41, 4283-4289.	2.7	0
2	Improving Accuracy and Sensitivity of a Tilted Fiber Bragg Grating Refractometer Using Cladding Mode Envelope Derivative. <i>Journal of Lightwave Technology</i> , 2023, 41, 4123-4129.	2.7	7
3	Determining the Orientation of Tilted Fiber Bragg Gratings Using a Planar Substrate. <i>Journal of Lightwave Technology</i> , 2023, 41, 4315-4321.	2.7	1
4	Microwave Photonic Interrogation of a High-Speed and High-Resolution Multipoint Refractive Index Sensor. <i>Journal of Lightwave Technology</i> , 2022, 40, 1245-1251.	2.7	3
5	Mode-division and spatial-division optical fiber sensors. <i>Advances in Optics and Photonics</i> , 2022, 14, 1.	12.1	37
6	Fast Response Oxygen Optical Fiber Sensor based on $\text{PEA}_{2}\text{Sn}_{4}$ Perovskite with Extremely Low Limit of Detection. <i>Advanced Science</i> , 2022, 9, e2104708.	5.6	20
7	Operando monitoring of ion activities in aqueous batteries with plasmonic fiber-optic sensors. <i>Nature Communications</i> , 2022, 13, 547.	5.8	66
8	Combined physical confinement and chemical adsorption on co-doped hollow TiO_{2} for long-term cycle lithium-sulfur batteries. <i>Nanoscale</i> , 2022, 14, 9401-9408.	2.8	5
9	Synergistic SERS enhancement and <i>in situ</i> monitoring of photocatalytic reactions in a plasmonic metal/ferroelectric hybrid system by the light-induced pyroelectric effect. <i>Journal of Materials Chemistry A</i> , 2022, 10, 14078-14089.	5.2	9
10	Ultrahigh Sensitive Detection of Tau Protein as Alzheimer's Biomarker via Microfluidics and Nanofunctionalized Optical Fiber Sensors. <i>Advanced Photonics Research</i> , 2022, 3, .	1.7	28
11	Operando optical fiber monitoring of nanoscale and fast temperature changes during photo-electrocatalytic reactions. <i>Light: Science and Applications</i> , 2022, 11, .	7.7	26
12	Mode Splitting in ITO-Nanocoated Tilted Fiber Bragg Gratings for Vector Twist Measurement. <i>Journal of Lightwave Technology</i> , 2021, 39, 4151-4157.	2.7	11
13	Discrimination of Bulk and Surface Refractive Index Change in Plasmonic Sensors with Narrow Bandwidth Resonance Combs. <i>ACS Sensors</i> , 2021, 6, 3013-3023.	4.0	46
14	Guest Editorial - Guided Lightwaves for Sensors & Measurement Systems: Advanced Techniques and Applications. <i>Journal of Lightwave Technology</i> , 2021, 39, 3623-3625.	2.7	3
15	Ultrasensitive detection of endocrine disruptors via superfine plasmonic spectral combs. <i>Light: Science and Applications</i> , 2021, 10, 181.	7.7	96
16	Vector Magnetometer Based On Localized Scattering Between Optical Fiber Spectral Combs and Magnetic Nanoparticles. <i>Journal of Lightwave Technology</i> , 2021, 39, 6599-6605.	2.7	4
17	Monitoring battery electrolyte chemistry <i>in-operando</i> tilted fiber Bragg grating sensors. <i>Energy and Environmental Science</i> , 2021, 14, 6464-6475.	15.6	51
18	$\text{Nb}_{2}\text{CT}_{x}$ MXene-tilted fiber Bragg grating optofluidic system based on photothermal spectroscopy for pesticide detection. <i>Biomedical Optics Express</i> , 2021, 12, 7051.	1.5	12

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19	Advanced Photonic Technology in Instrumentation and Measurement: IEEE IMS TC-42 in Action. IEEE Instrumentation and Measurement Magazine, 2021, 24, 28-30.	1.2	0
20	The Plasmonic Optical Fiber as the Instrument: The Rising Trend of In-Situ Biomedical Measurement. IEEE Instrumentation and Measurement Magazine, 2021, 24, 70-74.	1.2	0
21	Real-Time Monitoring of Wind-Induced Vibration of High-Voltage Transmission Tower Using an Optical Fiber Sensing System. IEEE Transactions on Instrumentation and Measurement, 2020, 69, 268-274.	2.4	24
22	Fiber Optic Refractive Index Distributed Multi-Sensors by Scattering-Level Multiplexing With MgO Nanoparticle-Doped Fibers. IEEE Sensors Journal, 2020, 20, 2504-2510.	2.4	28
23	High-Speed and High-Resolution Microwave Photonic Interrogation of a Fiber-Optic Refractometer With Plasmonic Spectral Comb. Journal of Lightwave Technology, 2020, 38, 2073-2080.	2.7	7
24	Narrow bandwidth fiber-optic spectral combs for renewable hydrogen detection. Science China Information Sciences, 2020, 63, 1.	2.7	45
25	Saturable Absorption and Bistable Switching of Single Mode Fiber Core-Guided Light by a 6Åm-thick, Few Layers Graphene Coating on the Cladding Surface. Annalen Der Physik, 2020, 532, 2000157.	0.9	6
26	Optical detection of the percolation threshold of nanoscale silver coatings with optical fiber gratings. APL Photonics, 2020, 5, .	3.0	16
27	Selective detection of cadmium ions using plasmonic optical fiber gratings functionalized with bacteria. Optics Express, 2020, 28, 19740.	1.7	50
28	Tilted fiber grating with metal nanocoating for calmodulin detection. , 2020, , .		0
29	Reflective Fiber-Optic Refractometer Using Broadband Cladding Mode Coupling Mediated by a Tilted Fiber Bragg Grating and an In-Fiber Mirror. Journal of Lightwave Technology, 2019, 37, 2815-2819.	2.7	16
30	Plasmonic Fiber-Optic Photothermal Anemometers With Carbon Nanotube Coatings. Journal of Lightwave Technology, 2019, 37, 3373-3380.	2.7	43
31	Label-free Detection of Breast Cancer Cells Using a Fiber-optic Grating Sensor Functionalized with Halloysite Nanotubes. , 2019, , .		1
32	Electrochemical Plasmonic Fiber-optic Sensors for Ultra-Sensitive Heavy Metal Detection. Journal of Lightwave Technology, 2019, 37, 3495-3502.	2.7	45
33	Ultra-sensitive Detection of Heavy Metal Using a Fiber Grating-Assisted Plasmonic Electrochemical Sensor. , 2019, , .		0
34	Label-Free Thrombin Detection Using a Tapered Fiber-Optic Interferometric Aptasensor. Journal of Lightwave Technology, 2019, 37, 2756-2761.	2.7	43
35	<i>In-Situ</i> Detection of Small Biomolecule Interactions Using a Plasmonic Tilted Fiber Grating Sensor. Journal of Lightwave Technology, 2019, 37, 2792-2799.	2.7	38
36	Gold Nanoparticle-Functionalized Surface Plasmon Resonance Optical Fiber Biosensor: <i>In Situ</i> Detection of Thrombin With 1 nÅM Detection Limit. Journal of Lightwave Technology, 2019, 37, 2748-2755.	2.7	51

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37	Twist sensor based on surface plasmon resonance excitation using two spectral combs in one tilted fiber Bragg grating. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2019, 36, 1176.	0.9	31
38	Palladium-coated plasmonic optical fiber gratings for hydrogen detection. <i>Optics Letters</i> , 2019, 44, 4483.	1.7	41
39	Fiber Grating Devices. , 2019, , 1351-1377.		0
40	High speed TFBG-SPR sensing demodulation system based on microwave photonics interrogation. , 2019, , .		0
41	Twist sensor based on surface plasmon resonance excitation using two spectral combs in one tilted fiber Bragg grating: publisher's note. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2019, 36, 1435.	0.9	0
42	Ultra-sensitive detection of heavy metal using a fiber grating-assisted plasmonic electrochemical sensor. , 2019, , .		0
43	Photothermal anemometer based on carbon nanotube-coated highly tilted fiber Bragg grating-assisted SPR sensor. , 2019, , .		1
44	Fiber-optics: a new route towards ultra-low detection limit label-free biosensing. , 2019, , .		0
45	Highly sensitive detection of dopamine using a graphene functionalized plasmonic fiber-optic sensor with aptamer conformational amplification. <i>Sensors and Actuators B: Chemical</i> , 2018, 264, 440-447.	4.0	75
46	<i>In situ</i> determination of the complex permittivity of ultrathin H ₂ -infused palladium coatings for plasmonic fiber optic sensors in the near infrared. <i>Journal of Materials Chemistry C</i> , 2018, 6, 5161-5170.	2.7	19
47	Insight into the local near-infrared photothermal dynamics of graphene oxide functionalized polymers through optical microfibers. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 5256-5263.	1.3	6
48	Improved detection sensitivity of $\hat{1}^3$ -aminobutyric acid based on graphene oxide interface on an optical microfiber. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 14117-14123.	1.3	9
49	Fiber Grating Devices. , 2018, , 1-27.		0
50	Plasmonic Optical Fibre Sensors for Electrochemical Activities Monitoring in Energy Storage Devices. <i>Journal of Physics: Conference Series</i> , 2018, 1065, 202010.	0.3	0
51	Photocatalysis in an evanescent field: an <i>in situ</i> approach to studying photocatalytic performance by tracing interfacial refractive index changes and kinetics. <i>Journal of Materials Chemistry A</i> , 2018, 6, 20513-20522.	5.2	16
52	Determination of the complex permittivity of ultrathin H ₂ -infused palladium coatings for plasmonic fiber optic sensors in the near infrared. , 2018, , .		1
53	Optical Fiber Sensing System for Online Monitoring Wind-induced Vibration on Power Transmission Tower Survey. , 2018, , .		1
54	Hydrogen peroxide and glucose concentration measurement using optical fiber grating sensors with corrodible plasmonic nanocoatings. <i>Biomedical Optics Express</i> , 2018, 9, 1735.	1.5	60

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55	In situ plasmonic optical fiber detection of the state of charge of supercapacitors for renewable energy storage. <i>Light: Science and Applications</i> , 2018, 7, 34.	7.7	129
56	Fiber grating assisted surface plasmon resonance for biochemical and electrochemical sensing. , 2018, , ,		1
57	Self-Starting Mode-Locking by Fiber-Integrated WS ₂ Saturable Absorber Mirror. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2017, 23, 33-38.	1.9	25
58	High-resolution and temperature-compensational HER2 antigen detection based on microwave photonic interrogation. <i>Sensors and Actuators B: Chemical</i> , 2017, 245, 583-589.	4.0	34
59	Ultrasensitive and label-free detection of \hat{I}^3 -aminobutyric acid using fiber-optic interferometric sensors functionalized with size-selective molecular sieve arrays. <i>Sensors and Actuators B: Chemical</i> , 2017, 244, 934-940.	4.0	16
60	Label-Free Detection of DNA Hybridization Using a Reflective Microfiber Bragg Grating Biosensor With Self-Assembly Technique. <i>Journal of Lightwave Technology</i> , 2017, 35, 3354-3359.	2.7	43
61	Nonradiation Cellular Thermometry Based on Interfacial Thermally Induced Phase Transformation in Polymer Coating of Optical Microfiber. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 9024-9028.	4.0	12
62	Low-frequency vibration measurement by a dual-frequency DBR fiber laser. <i>Photonic Sensors</i> , 2017, 7, 206-210.	2.5	5
63	Wide Range Refractive Index Measurement Using a Multi-Angle Tilted Fiber Bragg Grating. <i>IEEE Photonics Technology Letters</i> , 2017, 29, 719-722.	1.3	66
64	Ultrasensitive and in situ DNA detection in various pH environments based on a microfiber with a graphene oxide linking layer. <i>RSC Advances</i> , 2017, 7, 13177-13183.	1.7	27
65	Specific Detection of Aquaporin-2 Using Plasmonic Tilted Fiber Grating Sensors. <i>Journal of Lightwave Technology</i> , 2017, 35, 3360-3365.	2.7	37
66	Real-time, in-situ analysis of silver ions using nucleic acid probes modified silica microfiber interferometry. <i>Talanta</i> , 2017, 165, 245-250.	2.9	17
67	Liquid Crystal-Embedded Tilted Fiber Grating Electric Field Intensity Sensor. <i>Journal of Lightwave Technology</i> , 2017, 35, 3347-3353.	2.7	28
68	Highly sensitive fiber-optic accelerometer by grating inscription in specific core dip fiber. <i>Scientific Reports</i> , 2017, 7, 11856.	1.6	31
69	A fiber-optic sensor for neurotransmitters with ultralow concentration: near-infrared plasmonic electromagnetic field enhancement using raspberry-like meso-SiO ₂ nanospheres. <i>Nanoscale</i> , 2017, 9, 14929-14936.	2.8	24
70	Fiber-Optic Accelerometer Using Tilted Grating Inscribed in Depressed Cladding Fibers. <i>IEEE Photonics Technology Letters</i> , 2017, 29, 2171-2174.	1.3	13
71	Fiber Grating-Assisted Surface Plasmon Resonance for Biochemical and Electrochemical Sensing. <i>Journal of Lightwave Technology</i> , 2017, 35, 3323-3333.	2.7	120
72	Polarization-Assisted Fiber Bragg Grating Sensors: Tutorial and Review. <i>Journal of Lightwave Technology</i> , 2017, 35, 3311-3322.	2.7	79

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73	Transition-metal dichalcogenides heterostructure saturable absorbers for ultrafast photonics. Optics Letters, 2017, 42, 4279.	1.7	79
74	Plasmonic Optical Fiber-Grating Immunosensing: A Review. Sensors, 2017, 17, 2732.	2.1	96
75	Smart Sensing Technologies and Their Applications in Civil Infrastructures 2016. Journal of Sensors, 2016, 2016, 1-2.	0.6	7
76	Mesoporous nanospheres functionalized optical microfiber biosensor for low concentration neurotransmitter detection. Optics Express, 2016, 24, 27152.	1.7	14
77	Surface plasmon resonance based on multi-angle tilted fiber Bragg grating for highly sensitive and wide range refractive index measurement. , 2016, , .		1
78	Highly sensitive and specific detection of urinary Aquaporin-2 using tilted fiber grating sensors with Plasmonic nanocoatings. , 2016, , .		0
79	Plasmonic fiber-optic vector magnetometer. Applied Physics Letters, 2016, 108, .	1.5	74
80	Fiber-integrated tungsten disulfide saturable absorber (mirror) for pulsed fiber lasers. Optical Engineering, 2016, 55, 081318.	0.5	27
81	Electrochemical Surface Plasmon Resonance Fiber-Optic Sensor: <i>In Situ</i> Detection of Electroactive Biofilms. Analytical Chemistry, 2016, 88, 7609-7616.	3.2	64
82	Understanding the pH-dependent interaction between graphene oxide and single-stranded DNA through a fiber-optic interferometer. Physical Chemistry Chemical Physics, 2016, 18, 32266-32271.	1.3	10
83	High-damage-resistant tungsten disulfide saturable absorber mirror for passively Q-switched fiber laser. Optics Express, 2016, 24, 16287.	1.7	68
84	Fiber-integrated tungsten disulfide saturable absorber mirrors by magnetron sputtering technique. , 2016, , .		0
85	Ultrasensitive plasmonic sensing in air using optical fibre spectral combs. Nature Communications, 2016, 7, 13371.	5.8	183
86	Plasmonic Fiber-Optic Refractometers Based on a High Q-Factor Amplitude Interrogation. IEEE Sensors Journal, 2016, 16, 5974-5978.	2.4	18
87	Optical microfiber-loaded surface plasmonic TE-pass polarizer. Optics and Laser Technology, 2016, 78, 101-105.	2.2	9
88	Highly sensitive detection of urinary protein variations using tilted fiber grating sensors with plasmonic nanocoatings. Biosensors and Bioelectronics, 2016, 78, 221-228.	5.3	144
89	Q-Switched Fiber Laser Using a Fiber-Tip-Integrated TI Saturable Absorption Mirror. IEEE Photonics Journal, 2016, 8, 1-6.	1.0	17
90	[INVITED] Tilted fiber grating mechanical and biochemical sensors. Optics and Laser Technology, 2016, 78, 19-33.	2.2	231

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91	Resolution-improved in situ DNA hybridization detection based on microwave photonic interrogation. Optics Express, 2015, 23, 27061.	1.7	19
92	Smart Sensing Technologies and Their Applications in Civil Infrastructures. Journal of Sensors, 2015, 2015, 1-1.	0.6	3
93	Ultrahigh-Temperature Chirped Fiber Bragg Grating Through Thermal Activation. IEEE Photonics Technology Letters, 2015, 27, 1305-1308.	1.3	13
94	Review of plasmonic fiber optic biochemical sensors: improving the limit of detection. Analytical and Bioanalytical Chemistry, 2015, 407, 3883-3897.	1.9	556
95	Evanescently coupled optical fiber refractometer based a tilted fiber Bragg grating and a D-shaped fiber. Optics Express, 2015, 23, 20971.	1.7	22
96	In-situ protein detection based on cut-off mode monitoring of a tilted fiber Bragg grating biosensor. , 2015, , .		0
97	Sensitivity-improved plasmonic fiber-optic refractometer based on differential measurement between cut-off and plasmonic resonances. , 2015, , .		0
98	Sensitivity-Improved Strain Sensor over a Large Range of Temperatures Using an Etched and Regenerated Fiber Bragg Grating. Sensors, 2014, 14, 18575-18582.	2.1	34
99	High Temperature Measurement Up to 1100 $^{\circ}\text{C}$ Using a Polarization-Maintaining Photonic Crystal Fiber. IEEE Photonics Journal, 2014, 6, 1-10.	1.0	12
100	Orientation-dependent fiber-optic accelerometer based on grating inscription over fiber cladding. Optics Letters, 2014, 39, 6616.	1.7	35
101	Polarimetric multi-mode tilted fiber grating sensors. Optics Express, 2014, 22, 7330.	1.7	38
102	Wideband-adjustable reflection-suppressed rejection filters using chirped and tilted fiber gratings. Optics Express, 2014, 22, 24430.	1.7	30
103	Orientation-recognized rotation measurement using single polarimetric multi-mode tilted fiber grating. , 2014, , .		1
104	Theoretical and Experimental Study of a Code-Division Multiplexing Fiber Bragg Grating Sensor System. Fiber and Integrated Optics, 2014, 33, 26-36.	1.7	0
105	In-situ detection of density alteration in non-physiological cells with polarimetric tilted fiber grating sensors. Biosensors and Bioelectronics, 2014, 55, 452-458.	5.3	82
106	In-situ DNA hybridization detection with a reflective microfiber grating biosensor. Biosensors and Bioelectronics, 2014, 61, 541-546.	5.3	130
107	High-sensitive and temperature-self-calibrated tilted fiber grating biological sensing probe. Science Bulletin, 2013, 58, 2611-2615.	1.7	12
108	High sensitivity stretched-abrupt-tapered Mach-Zehnder interferometer with optical attractive force for active microsensing applications. Applied Physics Letters, 2013, 102, .	1.5	9

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109	Simultaneous Measurement of Refractive Index and Temperature Using a Michelson Fiber Interferometer With a Hi-Bi Fiber Probe. IEEE Sensors Journal, 2013, 13, 2061-2065.	2.4	25
110	Reflective Fiber-Optic Refractometer Based on a Compact Hi-Bi Fiber Tip. IEEE Sensors Journal, 2013, 13, 1473-1477.	2.4	4
111	Polarization-maintaining fiber-optic-grating vector vibroscope. Optics Letters, 2013, 38, 531.	1.7	28
112	Orientation-dependant inclinometer based on intermodal coupling of two-LP-modes in a polarization-maintaining photonic crystal fiber. Optics Express, 2013, 21, 17576.	1.7	26
113	VCSEL-powered and polarization-maintaining fiber-optic grating vector rotation sensor. Optics Express, 2013, 21, 19097.	1.7	26
114	Reflective fiber-optic refractometer based on a thin-core fiber tailored Bragg grating reflection. Optics Letters, 2012, 37, 323.	1.7	48
115	Fiber-optic vector vibroscope. Optics Letters, 2012, 37, 2703.	1.7	35
116	Optimizing Method for Synchronization of Small-World Networks. , 2012, , .		0
117	Highly-Sensitive Temperature Sensor Using a Hi-Bi Fiber Tip Probe. IEEE Sensors Journal, 2012, 12, 2077-2080.	2.4	17
118	Mach-Zehnder Interferometer Based on a Sandwich Fiber Structure for Refractive Index Measurement. IEEE Sensors Journal, 2012, 12, 2081-2085.	2.4	46
119	Highly Sensitive Temperature Sensor Using PANDA Fiber Sagnac Interferometer. Journal of Lightwave Technology, 2011, 29, 3640-3644.	2.7	70
120	Light Coupling Between a Singlemode- Multimode-Singlemode (SMS) Fiber Structure and a Long Period Fiber Grating. Journal of Lightwave Technology, 2011, 29, 3683-3688.	2.7	6
121	Beat frequency trimming of dual-polarization fiber grating lasers for multiplexed sensor applications. Optics Express, 2011, 19, 218.	1.7	14
122	Beat-frequency adjustable Er ³⁺ -doped DBR fiber laser for ultrasound detection. Optics Express, 2011, 19, 2485.	1.7	42
123	VCSEL-Based Tilted Fiber Grating Vibration Sensing System. IEEE Photonics Technology Letters, 2010, 22, 1235-1237.	1.3	42
124	Highly sensitive bending sensor based on Er ³⁺ -doped DBR fiber laser. Optics Express, 2010, 18, 17834.	1.7	60
125	Reflective tilted fiber Bragg grating refractometer based on strong cladding to core recoupling. Optics Express, 2009, 17, 5736.	1.7	147
126	Tilted fiber grating accelerometer incorporating an abrupt biconical taper for cladding to core recoupling. Optics Express, 2009, 17, 20651.	1.7	129

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127	Power-Referenced and Temperature-Calibrated Optical Fiber Refractometer. IEEE Photonics Technology Letters, 2008, 20, 635-637.	1.3	47
128	Temperature-independent tilted fiber grating vibration sensor based on cladding-core recoupling. Optics Letters, 2008, 33, 1004.	1.7	133
129	Radiation mode resonances of tilted fiber Bragg gratings for high index media measurement. , 2008, , .		5
130	Temperature-insensitive fiber Bragg grating dynamic pressure sensing system. Optics Letters, 2006, 31, 2269.	1.7	26
131	Temperature-insensitive fiber Bragg grating force sensor via a bandwidth modulation and optical-power detection technique. Journal of Lightwave Technology, 2006, 24, 3797-3802.	2.7	23
132	Temperature-insensitive fiber Bragg grating liquid-level sensor based on bending cantilever beam. IEEE Photonics Technology Letters, 2005, 17, 2400-2402.	1.3	109