Changsen Sun

List of Publications by Year
in descending order

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38	738	567281 15	526287 27
papers	citations	h-index	g-index

39	39	39	793
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Theoretical and Experimental Investigations into Crack Detection with BOTDR-Distributed Fiber Optic Sensors. Journal of Engineering Mechanics - ASCE, 2013, 139, 1797-1807.	2.9	109
2	Multiplexed Fiber-Optic Pressure and Temperature Sensor System for Down-Hole Measurement. IEEE Sensors Journal, 2008, 8, 1879-1883.	4.7	68
3	Heteromeric Heat-sensitive Transient Receptor Potential Channels Exhibit Distinct Temperature and Chemical Response. Journal of Biological Chemistry, 2012, 287, 7279-7288.	3.4	63
4	Stationary Wavelet Transform Method for Distributed Detection of Damage by Fiber-Optic Sensors. Journal of Engineering Mechanics - ASCE, 2014, 140, .	2.9	44
5	Plasmonics for Biosensing. Materials, 2019, 12, 1411.	2.9	41
6	Rapid and Specific Imaging of Extracellular Signaling Molecule Adenosine Triphosphate with a Self-Phosphorylating DNAzyme. Journal of the American Chemical Society, 2021, 143, 15084-15090.	13.7	38
7	A Novel Fiber Optic Surface Plasmon Resonance Biosensors with Special Boronic Acid Derivative to Detect Glycoprotein. Sensors, 2017, 17, 2259.	3.8	37
8	Quantitative investigation in distributed sensing of structural defects with Brillouin optical time domain reflectometry. Journal of Intelligent Material Systems and Structures, 2013, 24, 1187-1196.	2.5	34
9	Scanning white-light interferometer for measurement of the thickness of a transparent oil film on water. Applied Optics, 2005, 44, 5202.	2.1	31
10	The Performance Analysis of Distributed Brillouin Corrosion Sensors for Steel Reinforced Concrete Structures. Sensors, 2014, 14, 431-442.	3.8	31
11	Corrosion monitoring of rock bolt by using a low coherent fiber-optic interferometry. Optics and Laser Technology, 2015, 67, 137-142.	4.6	30
12	Research on corrosion detection for steel reinforced concrete structures using the fiber optical white light interferometer sensing technique. Smart Materials and Structures, 2013, 22, 065014.	3.5	29
13	Temperature-dependent Activation of Neurons by Continuous Near-infrared Laser. Cell Biochemistry and Biophysics, 2009, 53, 33-42.	1.8	26
14	Low-coherent fiber-optic interferometry for in situ monitoring the corrosion-induced expansion of pre-stressed concrete cylinder pipes. Structural Health Monitoring, 2019, 18, 1862-1873.	7.5	18
15	Nuclear Power Plant Prestressed Concrete Containment Vessel Structure Monitoring during Integrated Leakage Rate Testing Using Fiber Bragg Grating Sensors. Applied Sciences (Switzerland), 2017, 7, 419.	2.5	15
16	A Novel Low-Power-Consumption All-Fiber-Optic Anemometer with Simple System Design. Sensors, 2017, 17, 2107.	3.8	14
17	pM Level and Large Dynamic Range Glucose Detection Based on a Sandwich Type Plasmonic Fiber Sensor. Journal of Lightwave Technology, 2021, 39, 3882-3889.	4.6	14
18	High Sensitivity Humidity Detection Based on Functional GO/MWCNTs Hybrid Nano-Materials Coated Titled Fiber Bragg Grating. Nanomaterials, 2021, 11, 1134.	4.1	13

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19	Fiber-optic ground settlement sensor based on low-coherent interferometry. Applied Optics, 2014, 53, 3278.	1.8	9
20	980-nm infrared laser modulation of sodium channel kinetics in a neuron cell linearly mediated by photothermal effect. Journal of Biomedical Optics, 2014, 19, 105002.	2.6	9
21	Plasmonic Tweezers towards Biomolecular and Biomedical Applications. Applied Sciences (Switzerland), 2019, 9, 3596.	2.5	9
22	Temporal Modulation of Sodium Current Kinetics in Neuron Cells by Near-Infrared Laser. Cell Biochemistry and Biophysics, 2013, 67, 1409-1419.	1.8	8
23	Linear-response and simple hot-wire fiber-optic anemometer using high-order cladding mode. Optics Express, 2020, 28, 27028.	3.4	8
24	Tilt performance of the ground settlement sensor configured in a fiber-optic low-coherent interferometer. Applied Optics, 2016, 55, 7917.	2.1	7
25	Performance of the fiber-optic low-coherent ground settlement sensor: From lab to field. Review of Scientific Instruments, 2018, 89, 045008.	1.3	6
26	Fiber-Optic Hot-Wire Anemometer With Directional Response Based on Symmetry-Breaking Induced Heat Transfer Mechanism. Journal of Lightwave Technology, 2021, 39, 3919-3925.	4.6	6
27	Remote determination of size of surface heterogeneity and displacements of diffusely scattering objects. , 2016, , .		5
28	Implementation of a Load Sensitizing Bridge Spherical Bearing Based on Low-Coherent Fiber-Optic Sensors Combined with Neural Network Algorithms. Sensors, 2021, 21, 37.	3.8	5
29	In situ ground settlement sensor for oil-tank monitoring by combining a fiber-optic low-coherent interferometry with a fine mechanical design. Applied Optics, 2022, 61, 3980.	1.8	3
30	Design of high-sensitivity photoelastic optical fiber pressure sensor: a differential approach. IEEE Photonics Technology Letters, 1997, 9, 976-978.	2.5	2
31	Contrast enhancement for the infrared vein image of leg based on the optical angular spectrum theory. Signal, Image and Video Processing, 2017, 11, 423-429.	2.7	2
32	Continuous infrared laser irradiation decreased membrane capacitance of neuron cell. , 2019, , .		2
33	Spatial resolution enhancement of fiber-optic scanning white-light interferometer by use of a Vernier principle. Applied Optics, 2003, 42, 4431.	2.1	1
34	Force-monitoring ring based on white-light interferometry for bridge cable force monitoring and its temperature compensation. Advances in Structural Engineering, 2019, 22, 1444-1452.	2.4	1
35	Absolute Deformation Measurement Using Fiber-Optic White Light Interferometer with Two Broad-Band Sources. , 0, , 415-422.		0
36	Effects of Electrode Sizes and Positions on the Induced Current Field in Electrical Eyeballs Stimulations. , 2020, , .		0

#	Article	IF	Citations
37	Appropriate Electrode Positions Improve Stimulation Efficacies in Electrical Eye Stimulations. , 2020, , .		0
38	Research on Real-Time Monitoring of Strain Behavior of Concrete under Freezing-Thawing Cycle by White Light Interferometer. Advances in Materials Science and Engineering, 2022, 2022, 1-7.	1.8	0