Hong Chuong Tran

List of Publications by Year
in descending order

62	1,127	361413 20	434195 31
papers	citations	h-index	g-index

62	62	62	1016
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Review on recent developments of fluorescent oxygen and carbon dioxide optical fiber sensors. Photonic Sensors, 2011, 1, 234-250.	5.0	97
2	Application of Fiber Bragg Grating Level Sensor and Fabry-PÃ©rot Pressure Sensor to Simultaneous Measurement of Liquid Level and Specific Gravity. IEEE Sensors Journal, 2012, 12, 827-831.	4.7	87
3	A Plastic Optical Fiber Sensor for the Dual Sensing of Temperature and Oxygen. IEEE Photonics Technology Letters, 2008, 20, 63-65.	2.5	49
4	Systematic approach for determining optimal processing parameters to produce parts with high density in selective laser melting process. International Journal of Advanced Manufacturing Technology, 2019, 105, 4443-4460.	3.0	47
5	Ultrahigh sensitivity polarimetric strain sensor based upon D-shaped optical fiber and surface plasmon resonance technology. Optics Letters, 2011, 36, 2489.	3.3	43
6	Simultaneous absolute measurements of principal angle and phase retardation with a new common-path heterodyne interferometer. Applied Optics, 2004, 43, 2013.	2.1	39
7	Optimized hatch space selection in double-scanning track selective laser melting process. International Journal of Advanced Manufacturing Technology, 2019, 105, 2989-3006.	3.0	39
8	Extraction of anisotropic parameters of turbid media using hybrid model comprising differential- and decomposition-based Mueller matrices. Optics Express, 2013, 21, 16831.	3.4	38
9	Analysis of Scattering and Absorption Characteristics of Metal Powder Layer for Selective Laser Sintering. IEEE/ASME Transactions on Mechatronics, 2017, 22, 1807-1817.	5.8	38
10	An investigation of bonding-layer characteristics of substrate-bonded fiber Bragg grating. Journal of Lightwave Technology, 2005, 23, 3907-3915.	4.6	37
11	New synthetic-heterodyne demodulator for an optical fiber interferometer. IEEE Journal of Quantum Electronics, 2001, 37, 658-663.	1.9	36
12	Development of chitosan/Î²-glycerophosphate/glycerol hydrogel as a thermosensitive coupling agent. Carbohydrate Polymers, 2016, 147, 409-414.	10.2	35
13	In-fiber Bragg grating sensors using interferometric interrogations for passive quadrature signal processing. IEEE Photonics Technology Letters, 1998, 10, 1003-1005.	2.5	33
14	Characterization on five effective parameters of anisotropic optical material using Stokes parametersâ€"Demonstration by a fiber-type polarimeter. Optics Express, 2010, 18, 9133.	3.4	27
15	Noninvasive measurement of glucose concentration on human fingertip by optical coherence tomography. Journal of Biomedical Optics, 2018, 23, 1.	2.6	27
16	Packaging a fiber bragg grating with metal coating for an athermal design. Journal of Lightwave Technology, 2003, 21, 1377-1383.	4.6	26
17	A Novel Heterodyne Polarimeter for the Multiple-Parameter Measurements of Twisted Nematic Liquid Crystal Cell Using a Genetic Algorithm Approach. Journal of Lightwave Technology, 2007, 25, 946-951.	4.6	26
18	Polariscope for simultaneous measurement of the principal axis and the phase retardation by use of two phase-locked extractions. Applied Optics, 2004, 43, 6248.	2.1	25

#	Article	IF	Citations
19	The synthesis of multiple parameters of arbitrary FBGs via a genetic algorithm and two thermally modulated intensity spectra. Journal of Lightwave Technology, 2005, 23, 2158-2168.	4.6	22
20	Analytical Modeling of Residual Stress in Laser Powder Bed Fusion Considering Partâ€™s Boundary Condition. Crystals, 2020, 10, 337.	2.2	21
21	Packaging a fiber Bragg grating without preloading in a simple athermal bimaterial device. IEEE Transactions on Advanced Packaging, 2002, 25, 50-53.	1.6	20
22	Compensating Fiber Gratings for Source Flatness to Reduce Multiple-Access Interferences in Optical CDMA Network Coder/Decoders. Journal of Lightwave Technology, 2004, 22, 739-745.	4.6	19
23	Design in triangle-profiles and T-profiles of a wirebond using a linkage-spring model. IEEE Transactions on Components and Packaging Technologies, 2001, 24, 457-467.	1.3	18
24	Integrated Taguchi method and neural network analysis of physical profiling in the wirebonding process. IEEE Transactions on Components and Packaging Technologies, 2002, 25, 270-277.	1.3	18
25	An Intelligent Metrology Architecture With AVM for Metal Additive Manufacturing. IEEE Robotics and Automation Letters, 2019, 4, 2886-2893.	5.1	16
26	Relative two-dimensional nanoparticle concentration measurement based on scanned laser pico-projection. Sensors and Actuators B: Chemical, 2012, 173, 281-287.	7.8	14
27	Emissivity calibration method for pyrometer measurement of melting pool temperature in selective laser melting of stainless steel 316L. International Journal of Advanced Manufacturing Technology, 2019, 105, 637-649.	3.0	14
28	Prediction of Epitaxial Grain Growth in Single-Track Laser Melting of IN718 Using Integrated Finite Element and Cellular Automaton Approach. Materials, 2021, 14, 5202.	2.9	14
29	Tailoring the Optical Transmission Spectra of Double-Layered Compound Metallic Gratings. IEEE Photonics Journal, 2013, 5, 2700108-2700108.	2.0	13
30	Analysis of optically anisotropic properties of biological tissues under stretching based on differential Mueller matrix formalism. Journal of Biomedical Optics, 2017, 22, 035006.	2.6	13
31	Scanned Laser Pico Projection and Stokes-Mueller Matrix Imaging Polarimetry for Detecting Cancer Cells With Different Cytoskeletal Organizations and Metastatic Potencies. IEEE Photonics Journal, 2018, 10, 1-12.	2.0	13
32	Demonstration of a ROADM Using Cyclic AWGs. Journal of Lightwave Technology, 2011, 29, 2780-2784.	4.6	11
33	Analytical mechanics modeling of residual stress in laser powder bed considering flow hardening and softening. International Journal of Advanced Manufacturing Technology, 2020, 107, 4159-4172.	3.0	11
34	3D Multi-Track and Multi-Layer Epitaxy Grain Growth Simulations of Selective Laser Melting. Materials, 2021, 14, 7346.	2.9	11
35	Topology and shape optimizations of substrates for chirp fiber Bragg grating spectrum tuning. Journal of Lightwave Technology, 2002, 20, 1182-1187.	4.6	10
36	Polarization Scanning Ellipsometry Method for Measuring Effective Ellipsometric Parameters of Isotropic and Anisotropic Thin Films. Journal of Lightwave Technology, 2013, 31, 2361-2369.	4.6	10

#	Article	IF	Citations
37	Fluid velocity measurements in a microchannel performed with two new optical heterodyne microscopes. Applied Optics, 2002, 41, 6666.	2.1	9
38	A Hybrid Approach for Measuring the Parameters of Twisted-Nematic Liquid Crystal Cells Utilizing the Stokes Parameter Method and a Genetic Algorithm. Journal of Lightwave Technology, 2009, 27, 4136-4144.	4.6	9
39	Multi-scale modeling of selective electron beam melting of Ti6Al4V titanium alloy. International Journal of Advanced Manufacturing Technology, 2019, 105, 545-563.	3.0	9
40	An Approach for Measuring the Ellipsometric Parameters of Isotropic and Anisotropic Thin Films Using the Stokes Parameter Method. Journal of Lightwave Technology, 2012, 30, 2299-2306.	4.6	8
41	Stokesâ€“Mueller matrix polarimetry technique for circular dichroism/birefringence sensing with scattering effects. Journal of Biomedical Optics, 2017, 22, 047002.	2.6	8
42	Mechanics Modeling of Residual Stress Considering Effect of Preheating in Laser Powder Bed Fusion. Journal of Manufacturing and Materials Processing, 2021, 5, 46.	2.2	8
43	Optimized Double-Layered Grating Structures for Chem/Biosensing in Midinfrared Range. IEEE Sensors Journal, 2014, 14, 2938-2946.	4.7	7
44	CdSe Quantum Dots Embedded in Matrices: Characterization and Application for Low-Pressure and Temperature Sensors. IEEE Sensors Journal, 2016, 16, 2404-2410.	4.7	7
45	Phase-based method in heterodyne-modulated ellipsometer. Applied Physics B: Lasers and Optics, 2013, 113, 537-542.	2.2	5
46	Systematic modeling approach for analyzing the powder flow and powder energy absorptivity in direct energy deposition system. International Journal of Advanced Manufacturing Technology, 2019, 105, 1765-1776.	3.0	5
47	Use of Digital Image Correlation Method to Measure Bio-Tissue Deformation. Coatings, 2021, 11, 924.	2.6	5
48	Optimization of Surface Roughness and Density of Overhang Structures Fabricated by Laser Powder Bed Fusion. 3D Printing and Additive Manufacturing, 2023, 10, 732-748.	2.9	5
49	Measurement of Multiple Optical Parameters of Birefrigent Sample Using Polarization-Sensitive Optical Coherence Tomography. Journal of Lightwave Technology, 2009, 27, 483-493.	4.6	4
50	Optical detection of metastatic cancer cells using a scanned laser pico-projection system. Laser Physics Letters, 2015, 12, 035602.	1.4	4
51	Multi-objective optimization framework for five-pass wire-drawing process. International Journal of Advanced Manufacturing Technology, 2020, 107, 3049-3063.	3.0	4
52	A 2-D Heterodyne Polarimeter for the Determination of Parameters in Twisted Nematic Liquid Crystal Cells. Journal of Lightwave Technology, 2009, 27, 5500-5507.	4.6	3
53	Full-Field Stokes-Mueller Matrix Imaging Polarimetry System Based on Electro-Optical Modulators. IEEE Photonics Journal, 2018, , 1-1.	2.0	3
54	An Approach to Measure Tilt Motion, Straightness and Position of Precision Linear Stage with a 3D Sinusoidal-Groove Linear Reflective Grating and Triangular Wave-Based Subdivision Method. Sensors, 2019, 19, 2816.	3.8	3

#	Article	IF	Citations
55	Optical coherence tomography system with no high-precision scanning stage and stage controller. Applied Optics, 2004, 43, 4142.	2.1	2
56	Reconstruction of chirped fiber Bragg grating parameters and phase spectrum using two thermally modulated intensity spectra and a genetic algorithm. IEEE Photonics Technology Letters, 2006, 18, 346-348.	2.5	2
57	A novel 4Ã—4 fiber-optic switch based on double-sided mirrors for reconfigurable OADM design. , 0, , .		0
58	A novel fiber torsion sensor using a high-birefringence fiber Bragg grating for demodulation. , 0, , .		0
59	Multi-functional full-field common path heterodyne interferometer for linear birefringence material measurements. , 0, , .		0
60	Extracting the Physical Optical Parameters of TNLC Cell Using Effective Parameters and Stokes Polarimetry Method. Journal of Display Technology, 2014, 10, 478-483.	1.2	0
61	OS18-1-4 Arbitrary strain distribution sensing using two FBGs and a genetic algorithm with considering the attenuation factors. The Abstracts of ATEM International Conference on Advanced Technology in Experimental Mechanics Asian Conference on Experimental Mechanics, 2007, 2007.6, _OS18-1-4-_ OS18-1-4-	0.0	0
62	OS1-4 Analysis of optically anisotropic properties in stretching biological tissue based on Mueller-Stokes method by using full-field polarimetry(Advanced optical method 2,OS1 Advances in) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5 Conference on Advanced Technology in Experimental Mechanics Asian Conference on Experimental Mechanics, 2015, 2015.14, 8.	0.0	0