Chenggen Quan

List of Publications by Year
in descending order

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		566801	414034
42	1,040	15	32
papers	citations	h-index	g-index

42	42	42	925
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Piezoelectric MEMS Energy Harvester for Low-Frequency Vibrations With Wideband Operation Range and Steadily Increased Output Power. Journal of Microelectromechanical Systems, 2011, 20, 1131-1142.	1.7	327
2	A new S-shaped MEMS PZT cantilever for energy harvesting from low frequency vibrations below 30ÂHz. Microsystem Technologies, 2012, 18, 497-506.	1.2	130
3	A method to transfer speckle patterns for digital image correlation. Measurement Science and Technology, 2015, 26, 095201.	1.4	73
4	A scrape-through piezoelectric MEMS energy harvester with frequency broadband and up-conversion behaviors. Microsystem Technologies, 2011, 17, 1747-1754.	1.2	57
5	Improved method of attack on an asymmetric cryptosystem based on phase-truncated Fourier transform. Applied Optics, 2015, 54, 6874.	2.1	55
6	Phase extraction from a single fringe pattern based on guidance of an extreme map. Applied Optics, 2005, 44, 4814.	2.1	50
7	Shape measurement by use of liquid-crystal display fringe projection with two-step phase shifting. Applied Optics, 2003, 42, 2329.	2.1	47
8	Determination of three-dimensional displacement using two-dimensional digital image correlation. Applied Optics, 2008, 47, 583.	2.1	29
9	A Novel Stereo Vision Measurement System Using Both Line Scan Camera and Frame Camera. IEEE Transactions on Instrumentation and Measurement, 2019, 68, 3563-3575.	2.4	27
10	A Cost-Effective Single-Shot Structured Light System for 3D Shape Measurement. IEEE Sensors Journal, 2019, 19, 7335-7346.	2.4	24
11	Spatial-fringe-modulation-based quality map for phase unwrapping. Applied Optics, 2003, 42, 7060.	2.1	22
12	Fringe-density estimation by continuous wavelet transform. Applied Optics, 2005, 44, 2359.	2.1	21
13	HAMR Media Design in Optical and Thermal Aspects. IEEE Transactions on Magnetics, 2013, 49, 2559-2564.	1.2	19
14	Optical voice information hiding using enhanced iterative algorithm and computational ghost imaging. Journal of Optics (United Kingdom), 2019, 21, 065704.	1.0	17
15	Temporal phase retrieval from a complex field in digital holographic interferometry. Optics Letters, 2007, 32, 1602.	1.7	15
16	Profiling of objects with height steps by wavelet analysis of shadow moirÃ© fringes. Applied Optics, 2005, 44, 3284.	2.1	14
17	Wafer-level BCB bonding using a thermal press for microfluidics. Microsystem Technologies, 2009, 15, 573-580.	1.2	14
18	Hyper thin 3D edge measurement of honeycomb core structures based on the triangular camera-projector layout & phase-based stereo matching. Optics Express, 2016, 24, 5502.	1.7	14

#	Article	IF	Citations
19	A Single Color Camera Stereo Vision System. IEEE Sensors Journal, 2018, 18, 1474-1482.	2.4	13
20	Security Analysis on an Optical Encryption and Authentication Scheme Based on Phase-Truncation and Phase-Retrieval Algorithm. IEEE Photonics Journal, 2019, 11, 1-14.	1.0	11
21	Asymmetric optical image encryption using Kolmogorov phase screens and equal modulus decomposition. Optical Engineering, 2017, 56, 1.	0.5	11
22	Online fringe pitch selection for defocusing a binary square pattern projection phase-shifting method. Optics Express, 2020, 28, 30710.	1.7	10
23	3D Profile Simulation of Metal Nanostructures Obtained by Closely Packed Nanosphere Lithography. Plasmonics, 2010, 5, 141-148.	1.8	8
24	The optical image compression and encryption method based on Fresnel diffraction and discrete wavelet transform. Results in Optics, 2020, 1, 100021.	0.9	6
25	A novel phase retrieval method in fringe projection based on phase-shifting algorithm. Journal of Optics (India), 2018, 47, 534-541.	0.8	4
26	Cryptoanalysis of the modified diffractive-imaging-based image encryption by deep learning attack. Journal of Modern Optics, 2020, 67, 1398-1409.	0.6	4
27	Acceleration of e-beam lithography by minimized resist exposure for large scale nanofabrication. Microelectronic Engineering, 2016, 166, 31-38.	1.1	3
28	Optical cryptosystem model based on the keyspace transformation. Optics Communications, 2020, 462, 125347.	1.0	3
29	A robust fault diagnosis approach for large-scale production process. Measurement: Journal of the International Measurement Confederation, 2021, 170, 108737.	2.5	3
30	Quality assessment of digital speckle patterns for the single-shot speckle projection profilometry based on a visualised simulation platform. Optics and Lasers in Engineering, 2021, 141, 106571.	2.0	2
31	Cryptoanalysis and enhancement of a binary image encryption system based on interference. Applied Optics, 2021, 60, 8038.	0.9	2
32	Measurement of natural frequencies and mode shapes of transparent insect wings using common-path ESPI. Optics Express, 2022, 30, 18447.	1.7	2
33	A MEMS-based wideband piezoelectric energy harvester system using mechanical stoppers. , 2011, , .		1
34	An effective assessment method for absolute phase retrieval in digital fringe projection profilometry. Measurement Science and Technology, 2018, 29, 085006.	1.4	1
35	Experimental verification of full-field accuracyin stereo-DIC based on ESPI method. Applied Optics, 2022, 61, 1539-1544.	0.9	1
36	An optical shadowgraph microscope for a semiconductor wafer bump height measurement. Review of Scientific Instruments, 2005, 76, 046103.	0.6	0

#	Article	IF	Citations
37	Surface contouring by optical edge projection based on a continuous wavelet transform. Applied Optics, 2006, 45, 4815.	2.1	0
38	Development of a Sensor for Layered Micro-component Measurement Using White Light Interferometry. , 2010, , .		0
39	OS1(4)-17(OS01W0437) Micro-Components Evaluation Using Optical Techniques. The Abstracts of ATEM International Conference on Advanced Technology in Experimental Mechanics Asian Conference on Experimental Mechanics, 2003, 2003, 147.	0.0	0
40	OS01W0437 Micro-components evaluation using optical techniques. The Abstracts of ATEM International Conference on Advanced Technology in Experimental Mechanics Asian Conference on Experimental Mechanics, 2003, 2003.2, _OS01W0437-_OS01W0437.	0.0	0
41	OS01W0438 Phase shifting technique for closed-fringe analysis by Fourier transform method. The Abstracts of ATEM International Conference on Advanced Technology in Experimental Mechanics Asian Conference on Experimental Mechanics, 2003, 2003.2, _OS01W0438-_OS01W0438.	0.0	0
42	OS5-3-3 Warpage measurement of a LCD chip using projection speckle correlation method and microscopic interferometry. The Abstracts of ATEM International Conference on Advanced Technology in Experimental Mechanics Asian Conference on Experimental Mechanics, 2007, 2007.6, _OS5-3-3-1-_OS5-3-3-6.	0.0	0