

Chandra Shakher

List of Publications by Year in descending order

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102
papers

1,786
citations

236833

25
h-index

315616

38
g-index

104
all docs

104
docs citations

104
times ranked

843
citing authors

#	ARTICLE	IF	CITATIONS
1	A review on refractive index and temperature profile measurements using laser-based interferometric techniques. Optics and Lasers in Engineering, 1999, 31, 455-491.	2.0	113
2	Talbot interferometer with circular gratings for the measurement of temperature in axisymmetric gaseous flames. Applied Optics, 1994, 33, 6068.	2.1	66
3	Measurement of temperature and temperature distribution in gaseous flames by digital speckle pattern shearing interferometry using holographic optical element. Optics and Lasers in Engineering, 2015, 73, 33-39.	2.0	66
4	Application of wavelet filtering for vibration analysis using digital speckle pattern interferometry. Optical Engineering, 2002, 41, 176.	0.5	64
5	Digital holographic interferometry for measurement of temperature in axisymmetric flames. Applied Optics, 2012, 51, 3228.	0.9	64
6	Fingerprint detection using full-field swept-source optical coherence tomography. Applied Physics Letters, 2007, 91, .	1.5	59
7	Measurement of focal length with phase-shifting Talbot interferometry. Applied Optics, 2005, 44, 1572.	2.1	55
8	Logarithms-based RGB image encryption in the fractional Fourier domain: A non-linear approach. Optics and Lasers in Engineering, 2009, 47, 721-727.	2.0	52
9	Subaperture stitching for measurement of freeform wavefront. Applied Optics, 2015, 54, 10022.	2.1	47
10	Simultaneous topography and tomography of latent fingerprints using full-field swept-source optical coherence tomography. Journal of Optics, 2008, 10, 015307.	1.5	46
11	Investigation of temperature and temperature profile in axi-symmetric flame of butane torch burner using digital holographic interferometry. Optics and Lasers in Engineering, 2012, 50, 1436-1444.	2.0	46
12	Temperature measurement of wick stabilized micro diffusion flame under the influence of magnetic field using digital holographic interferometry. Optics and Lasers in Engineering, 2018, 102, 161-169.	2.0	44
13	Temperature measurement in laminar free convective flow using digital holography. Applied Optics, 2009, 48, 1869.	2.1	43
14	Measurement of temperature and temperature profile of an axisymmetric gaseous flames using Lau phase interferometer with linear gratings. Optics and Lasers in Engineering, 2001, 36, 373-380.	2.0	39
15	Experimental characterization of the hygroscopic properties of wood during convective drying using digital holographic interferometry. Applied Optics, 2016, 55, 960.	2.1	39
16	Image encryption and decryption using fractional Fourier transform and radial Hilbert transform. Optics and Lasers in Engineering, 2008, 46, 522-526.	2.0	36
17	Simple multifrequency and phase-shifting fringe-projection system based on two-wavelength lateral shearing interferometry for three-dimensional profilometry. Applied Optics, 2005, 44, 7515.	2.1	35
18	Experimental investigation on butane diffusion flames under the influence of magnetic field by using digital speckle pattern interferometry. Applied Optics, 2015, 54, 2450.	0.9	35

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19	Collimation testing with circular gratings. <i>Applied Optics</i> , 2001, 40, 1175.	2.1	34
20	Measurement of strain distribution in cortical bone around miniscrew implants used for orthodontic anchorage using digital speckle pattern interferometry. <i>Optical Engineering</i> , 2016, 55, 054101.	0.5	34
21	Measurement of natural convective heat transfer coefficient along the surface of a heated wire using digital holographic interferometry. <i>Applied Optics</i> , 2014, 53, G74.	0.9	33
22	Experimental investigation of the effect of magnetic field on temperature and temperature profile of diffusion flame using circular grating Talbot interferometer. <i>Optics and Lasers in Engineering</i> , 2015, 68, 214-221.	2.0	32
23	Measurement of out-of-plane static and dynamic deformations by processing digital speckle pattern interferometry fringes using wavelet transform. <i>Optics and Lasers in Engineering</i> , 2004, 41, 81-93.	2.0	30
24	Holographic optical element based digital holographic interferometer for the study of macro flames, micro flames and their temperature instability. <i>Optics and Lasers in Engineering</i> , 2019, 122, 29-36.	2.0	28
25	Measurement of temperature profile of a gaseous flame with a Lau phase interferometer that has circular gratings. <i>Applied Optics</i> , 2002, 41, 654.	2.1	26
26	Simultaneous tomography and topography of silicon integrated circuits using full-field swept-source optical coherence tomography. <i>Journal of Optics</i> , 2009, 11, 045501.	1.5	24
27	Measurement of temperature and temperature profile of wick stabilized micro diffusion flame under the effect of magnetic field using digital speckle pattern interferometry. <i>Optical Engineering</i> , 2017, 56, 014106.	0.5	23
28	Sinusoidal fringe projection system based on compact and non-mechanical scanning low-coherence Michelson interferometer for three-dimensional shape measurement. <i>Optics Communications</i> , 2009, 282, 1237-1242.	1.0	22
29	High-resolution full-field optical coherence microscopy using a Mirau interferometer for the quantitative imaging of biological cells. <i>Applied Optics</i> , 2011, 50, 6343.	2.1	22
30	Measurement of transverse vibrations/visualization of mode shapes in square plate by using digital speckle pattern interferometry and wavelet transform. <i>Optics and Lasers in Engineering</i> , 2006, 44, 41-55.	2.0	21
31	Fractional Fourier plane image encryption technique using radial hilbert-, and jigsaw transform. <i>Optics and Lasers in Engineering</i> , 2010, 48, 754-759.	2.0	21
32	Real time out-of-plane vibration measurement/monitoring using Talbot interferometry. <i>Optics and Lasers in Engineering</i> , 2000, 33, 251-259.	2.0	20
33	In-plane displacement measurement by using circular grating Talbot interferometer. <i>Optics and Lasers in Engineering</i> , 2015, 75, 63-71.	2.0	20
34	Three-dimensional shape measurement of micro-lens arrays using full-field swept-source optical coherence tomography. <i>Optics and Lasers in Engineering</i> , 2010, 48, 1145-1151.	2.0	19
35	Temperature measurement of axisymmetric flame under the influence of magnetic field using lensless Fourier transform digital holography. <i>Applied Optics</i> , 2012, 51, 4554.	0.9	19
36	Use of holographic optical elements in speckle metrology: part 2. <i>Applied Optics</i> , 1987, 26, 654.	2.1	18

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37	Wavelet filtering applied to time-average digital speckle pattern interferometry fringes. Optics and Laser Technology, 2001, 33, 567-571.	2.2	17
38	Measurement of temperature and temperature profile of candle flame using holo-shear lens and Fourier fringe analysis technique. Optical Engineering, 2015, 54, 084105.	0.5	17
39	Application of digital speckle pattern interferometry and wavelet transform in measurement of transverse vibrations in square plate. Optics and Lasers in Engineering, 2004, 42, 585-602.	2.0	16
40	Two-wavelength Talbot effect and its application for three-dimensional step-height measurement. Applied Optics, 2006, 45, 7602.	2.1	16
41	Swept-source digital holography to reconstruct tomographic images. Optics Letters, 2009, 34, 1879.	1.7	15
42	Study of heat dissipation process from heat sink using lensless Fourier transform digital holographic interferometry. Applied Optics, 2015, 54, 1257.	0.9	15
43	Use of holographic optical elements in speckle metrology. Applied Optics, 1984, 23, 4592.	2.1	14
44	Early detection of cancerous tissues in human breast utilizing near field microwave holography. International Journal of Imaging Systems and Technology, 2020, 30, 391-400.	2.7	13
45	Investigation of temperature profile and temperature stability of micro diffusion flame under the influence of magnetic field by use of a holo-shear lens-based interferometer. Optical Engineering, 2020, 59, 1.	0.5	13
46	Contouring of diffused objects using lensless Fourier transform digital moiré holography. Applied Optics, 2012, 51, 5331.	0.9	12
47	Effect of magnetic field on temperature profile and flame flow characteristics of micro flame using Talbot interferometer. Optik, 2018, 168, 817-826.	1.4	12
48	Machine Learning-Based Rapid Diagnostic-Test Reader for Albuminuria Using Smartphone. IEEE Sensors Journal, 2021, 21, 14011-14026.	2.4	12
49	Design and development of volume phase holographic grating based digital holographic interferometer for label-free quantitative cell imaging. Applied Optics, 2020, 59, 3773.	0.9	12
50	Weighted spline based integration for reconstruction of freeform wavefront. Applied Optics, 2018, 57, 1100.	0.9	12
51	Contouring of diffused objects by using digital holography. Optics and Lasers in Engineering, 2007, 45, 684-689.	2.0	11
52	Thick transmission phase holograms for photovoltaic concentrator applications. Solar Energy Materials and Solar Cells, 1987, 16, 215-221.	0.4	10
53	Monitoring/measurement of out-of-plane vibrations using shearing interferometry and interferometric grating. Optics and Lasers in Engineering, 2002, 38, 269-277.	2.0	10
54	Image encryption using radial Hilbert transform filter bank as an additional key in the modified double random fractional Fourier encoding architecture. Optics and Lasers in Engineering, 2010, 48, 605-615.	2.0	10

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55	Development of Smartphone-Based Lateral Flow Device for the Quantification of LH and E3G Hormones. IEEE Sensors Journal, 2020, 20, 14491-14500.	2.4	10
56	Measurement of elastic and thermal properties of composite materials using digital speckle pattern interferometry. Proceedings of SPIE, 2015, , .	0.8	9
57	Development of a metrology technique suitable for <i>in situ</i> measurement and corrective manufacturing of freeform optics. Advanced Optical Technologies, 2019, 8, 203-215.	0.9	9
58	Shearing interferometry using holo-lenses. Applied Optics, 1986, 25, 2477.	2.1	8
59	Low-frequency in-plane vibration monitoring/measurement using circular grating Talbot interferometer. Optical Engineering, 2018, 57, 1.	0.5	8
60	Fringe control techniques applied to holographic non-destructive testing (HNNDT). Canadian Journal of Physics, 1979, 57, 2155-2160.	0.4	7
61	Analysis of red blood cell parameters by Talbot-projected fringes. Journal of Biomedical Optics, 2017, 22, 1.	1.4	7
62	Laser speckle photography used for NDT of diaphragms. Applied Optics, 1982, 21, 367.	2.1	6
63	Investigation of in-plane stresses on bolted flange joints using digital speckle pattern interferometry. Optics and Lasers in Engineering, 1989, 11, 257-264.	2.0	6
64	Wavelength-scanning Talbot effect and its application for arbitrary three-dimensional step-height measurement. Optics Communications, 2007, 279, 13-19.	1.0	6
65	Noncontact temperature measurement of human hand skin using volume phase holographic optical element based digital holographic interferometer. Optics and Lasers in Engineering, 2022, 151, 106886.	2.0	6
66	Image processing and analysis of digital speckle pattern interferometric images for monitoring/surface vibration/tilt. , 0, , .		5
67	Display of tilt information of vibrating object in time average mode using lateral shearing interferometry and interferometric grating. Optics and Laser Technology, 2001, 33, 117-120.	2.2	5
68	Information reduction using lensless Fourier transform digital composite holography. Optics and Laser Technology, 2008, 40, 120-128.	2.2	5
69	Transmission Mode Full-Field Swept-Source Optical Coherence Tomography for Simultaneous Amplitude and Quantitative Phase Imaging of Transparent Objects. IEEE Photonics Technology Letters, 2011, 23, 899-901.	1.3	5
70	Measurement of temperature and temperature distribution in diffusion flames using digital speckle pattern interferometry. , 2013, , .		5
71	Temperature measurement of axisymmetric flames under the influence of magnetic field using Talbot interferometry. , 2014, , .		5
72	Indirect microwave holography with resolution enhancement in metallic imaging. International Journal of RF and Microwave Computer-Aided Engineering, 2020, 30, e22185.	0.8	5

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73	Role of Arbitrary Intensity Profile Laser Beam in Trapping of RBC for Phase-imaging. Journal of the Optical Society of Korea, 2016, 20, 78-87.	0.6	5
74	Compact interferometric optical tweezer for patterned trapping and manipulation of polystyrene spheres and SWCNTs. Journal of Modern Optics, 2010, 57, 1157-1162.	0.6	4
75	<title>Application of wavelet transform in characterization of fabric texture</title>. , 2002, , .		3
76	Measurement of hygroscopic strain in deodar wood during convective drying using lensless Fourier transform digital holography. , 2016, , .		3
77	Measurement of Temperature and Temperature Profile of an Axisymmetric Flame and a 2-D Flame Using Digital Speckle Photography. Journal of Holography and Speckle, 2005, 2, 84-89.	0.1	3
78	Digital Holography for Local Heat Flux Measurement along the Surface of Heated Wire. , 2019, , .		3
79	Application of wavelet transform and image morphology in processing vibration speckle interferogram for automatic analysis. , 2011, , .		2
80	Temperature measurement of axi-symmetric butane diffusion flame under the influence of upward decreasing gradient magnetic field using digital holographic interferometry. Proceedings of SPIE, 2015, , .	0.8	2
81	Different preprocessing and wavelet transform based filtering techniques to improve Signal- to-noise ratio in DSPI fringes. , 2006, , 142-149.		2
82	Study of mode shapes and measurement of vibrations in square plates using DSPI and wavelet transform. , 2004, , .		1
83	Study the effect of magnetic field on gaseous flames using digital speckle pattern interferometry. AIP Conference Proceedings, 2014, , .	0.3	1
84	Application of Digital Speckle Pattern Interferometry (DSPI) in Determination of Elastic Modulus Using Plate Vibration. , 2011, , 329-341.		1
85	Onion cell imaging by using Talbot/self-imaging effect. , 2017, , .		1
86	Temperature Measurement of Macro and Micro Diffusion Flame by Digital Holographic Interferometry using Volume Phase Holographic Grating. , 2019, , .		1
87	Measurement of temperature and temperature fluctuations in wick stabilized micro flame using digital holographic interferometry. , 2019, , .		1
88	Digital holographic interferometric in vitro imaging of Escherichia coli (E. coli) bacteria. , 2019, , .		1
89	Measurement of Temperature and Temperature Fluctuations in Micro Flame by Digital Holographic Interferometry using Volume Phase Holographic Grating. , 2021, , .		1
90	Speckle Metrology Using Holographic Lenses. Journal of Optics (India), 1984, 13, 53-57.	0.8	1

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91	Delinking of spurious translations in HI using speckle correlation technique. Journal of Optics, 1982, 13, 325-330.	0.3	0
92	Measurement of out-of-plane vibrations by processing digital speckle pattern interferometry fringes using wavelet transform. , 2002, , .		0
93	Application of digital speckle pattern interferometry in measurement of large deformation. , 2004, , .		0
94	Interferometry for topographical diagnostics of RBCs in optical tweezers. , 2010, , .		0
95	Measurement of Temperature of an Axi-symmetric Flame of Butane Torch Burner Using Digital Holographic Interferometry. , 2012, , .		0
96	Influence of Magnetic Field on Gaseous Flames using Digital Speckle Pattern Interferometry (DSPI) and Riesz Transform. , 2014, , .		0
97	Axi-Symmetric Flame Temperature Measurement Using Lensless Fourier Transform Digital Holography. , 2011, , .		0
98	Solar Holography: A Fresh Look on the Use of Volume Phase Transmission Holographic Lenses for Photovoltaic Concentrator Applications. , 2012, , .		0
99	Temperature Measurement of Diffusion and Pre-mixed Flames under the Influence of Magnetic Field Using Digital Holographic Interferometry. , 2014, , 547-550.		0
100	Onion Epidermis Cell imaging by using Talbot effect. , 2017, , .		0
101	Measurement of Temperature and Temperature Profile of Micro Flame using Circular Grating Talbot Interferometer. , 2018, , .		0
102	Measurement of Temperature Profile around Textile Conductive Yarn using Digital Holography. , 2019, , .		0