

Yunlong Sheng

List of Publications by Year in descending order

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57
papers

2,133
citations

257450

24
h-index

289244

40
g-index

59
all docs

59
docs citations

59
times ranked

1210
citing authors

#	ARTICLE	IF	CITATIONS
1	Orthogonal Fourierâ€™ Mellin moments for invariant pattern recognition. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 1994, 11, 1748.	1.5	284
2	Registration and fusion of retinal images-an evaluation study. IEEE Transactions on Medical Imaging, 2003, 22, 661-673.	8.9	138
3	Image description with Chebyshevâ€™ Fourier moments. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2002, 19, 1748.	1.5	130
4	Optical wavelet transform. Optical Engineering, 1992, 31, 1840.	1.0	128
5	Interference of surface waves in a metallic nanoslit. Optics Express, 2007, 15, 1182.	3.4	108
6	Wavelet transform as a bank of the matched filters. Applied Optics, 1992, 31, 3267.	2.1	106
7	Multidistortion-invariant image recognition with radial harmonic Fourier moments. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2003, 20, 631.	1.5	99
8	Generic orthogonal moments: Jacobiâ€™ Fourier moments for invariant image description. Pattern Recognition, 2007, 40, 1245-1254.	8.1	91
9	Nonlinearity-Induced Multiplexed Optical Trapping and Manipulation with Femtosecond Vector Beams. Nano Letters, 2018, 18, 5538-5543.	9.1	82
10	Phased-only sampled fiber bragg gratings for high-channel-count chromatic dispersion compensation. Journal of Lightwave Technology, 2003, 21, 2074-2083.	4.6	77
11	Optical wavelet matched filters for shift-invariant pattern recognition. Optics Letters, 1993, 18, 299.	3.3	76
12	Advances in the Design and Fabrication of High-Channel-Count Fiber Bragg Gratings. Journal of Lightwave Technology, 2007, 25, 2739-2750.	4.6	75
13	Dynamic deformation of red blood cellâ€™ in Dual-trap Optical Tweezers. Optics Express, 2010, 18, 10462.	3.4	72
14	One-dimensional jumping optical tweezers for optical stretching of bi-concave human red blood cells. Optics Express, 2008, 16, 1996.	3.4	62
15	Optical wavelet matched filter. Applied Optics, 1994, 33, 5287.	2.1	61
16	Programmable optical phase-mostly holograms with coupled-mode modulation liquid-crystal television. Applied Optics, 1995, 34, 1944.	2.1	58
17	Calculation of spherical red blood cell deformation in a dual-beam optical stretcher. Optics Express, 2007, 15, 16029.	3.4	51
18	Local scattering stress distribution on surface of a spherical cell in optical stretcher. Optics Express, 2006, 14, 12503.	3.4	50

#	ARTICLE	IF	CITATIONS
19	Properties of the circular harmonic expansion for rotation-invariant pattern recognition. Applied Optics, 1986, 25, 3225.	2.1	46
20	Optical surface waves over metallo-dielectric nanostructures: Sommerfeld integrals revisited. Optics Express, 2008, 16, 9073.	3.4	46
21	Advanced design of a multichannel fiber Bragg grating based on a layer-peeling method. Journal of the Optical Society of America B: Optical Physics, 2004, 21, 1929.	2.1	31
22	Wavelet processing and optics. Proceedings of the IEEE, 1996, 84, 720-732.	21.8	30
23	Optimization of a continuous phase-only sampling for high channel-count fiber Bragg gratings. Optics Express, 2006, 14, 3152.	3.4	30
24	Three-dimensional light-scattering and deformation of individual biconcave human blood cells in optical tweezers. Optics Express, 2013, 21, 12174.	3.4	25
25	Iterative simulated quenching for designing irregular-spot-array generators. Applied Optics, 2000, 39, 3456.	2.1	18
26	Phase-only sampled 45 channel fiber Bragg grating written with a diffraction-compensated phase mask. Optics Letters, 2006, 31, 1199.	3.3	18
27	Rigorous solution for the transient surface plasmon polariton launched by subwavelength slit scattering. Optics Express, 2008, 16, 21903.	3.4	18
28	Near-field diffraction of irregular phase gratings with multiple phase-shifts. Optics Express, 2005, 13, 6111.	3.4	13
29	Mechanical analysis of the optical tweezers in time-sharing regime. Optics Express, 2014, 22, 7953.	3.4	12
30	Rigorous solution for optical diffraction of a sub-wavelength real-metal slit. Optics Express, 2012, 20, 2149.	3.4	11
31	Continuous-scale-invariant pattern recognition with adaptive-wavelet-matched filters. Applied Optics, 1999, 38, 5541.	2.1	10
32	Influence of cladding-mode coupling losses on the spectrum of a linearly chirped multi-channel fiber bragg grating. Optics Express, 2005, 13, 1281.	3.4	10
33	Effect of the object 3D shape on the viscoelastic testing in optical tweezers. Optics Express, 2015, 23, 6020.	3.4	9
34	Registration and fusion of retinal images: a comparative study. , 0, , .		8
35	Effects of the phase shift split on phase-shifted fiber Bragg gratings. Journal of the Optical Society of America B: Optical Physics, 2006, 23, 1511.	2.1	8
36	Optimized stereo matching algorithm for integral imaging microscopy and its potential use in precise 3-D optical manipulation. Optics Communications, 2019, 430, 374-379.	2.1	6

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37	Monochromatic electromagnetic wavelets and the Huygens principle. Applied Optics, 1998, 37, 828.	2.1	5
38	<title>Continuous scale invariant optical composite wavelet matched filters with adaptive wavelets</title>. , 1995, 2491, 441.		4
39	Radiation pressure on a biconcave human Red Blood Cell and the resulting deformation in a pair of parallel optical traps. Journal of Biophotonics, 2014, 7, 782-787.	2.3	4
40	<title>Optical real-time kinoform using liquid crystal television and iterative design</title>. , 1994, 2237, 190.		2
41	<title>Optical correlator for textile web defect detection</title>. , 2000, 4089, 351.		2
42	Unsupervised classification and clustering of image features for vehicle detection in large scale aerial images. , 2010, , .		2
43	Dynamic deformation of a soft particle in dual-trap optical tweezers. Proceedings of SPIE, 2010, , .	0.8	2
44	<title>Real-time rotation invariant circular harmonic wavelet-matched filters using the coupled mode liquid crystal television (LCTV)</title>. , 1995, , .		1
45	<title>Physical wavelets: applications in optics</title>. , 2002, 4738, 372.		1
46	Mechanism of coupling and interference in nano-slit. Proceedings of SPIE, 2007, , .	0.8	1
47	<title>Performance of the optical wavelet matched filter</title>. , 1993, , .		0
48	Optical pattern recognition with the real-time phase-only filters and wavelet matched filters. , 1994, , .		0
49	Optical composite wavelet-matched filters. , 1994, , .		0
50	<title>Monochromatic wavelet and Huygens principle</title>. , 1997, , .		0
51	Robust multisensor image registration with partial distance merits. , 2000, , .		0
52	Transient surface plasmon polariton launched by a metal subwavelength slit scattering. Proceedings of SPIE, 2009, , .	0.8	0
53	Theory on the quasi-cylindrical wave diffracted by a subwavelength metallic slit and its enhancement by surface plasmon resonance. Proceedings of SPIE, 2012, , .	0.8	0
54	Robust object detection in aerial imagery. , 2012, , .		0

#	ARTICLE	IF	CITATIONS
55	Temporal response of biological cells to high-frequency optical jumping and vibrating tweezers. , 2014, , .		0
56	Temporal response of three-dimensional biological cells to high-frequency optical jumping tweezers. Journal of Nanophotonics, 2015, 9, 093083.	1.0	0
57	Split of phase-shifts in phase mask for proximity side-writing fiber Bragg gratings. , 2004, , .		0