

Myung K Kim

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

88

papers

3,352

citations

31

h-index

57

g-index

126

ext. papers

4,370

ext. citations

2.3

avg, IF

5.83

L-index

#	Paper	IF	Citations
88	High-resolution quantitative phase-contrast microscopy by digital holography. <i>Optics Express</i> , 2005 , 13, 8693-8	3.3	474
87	Phase imaging without 2pi ambiguity by multiwavelength digital holography. <i>Optics Letters</i> , 2003 , 28, 1141-3	3	228
86	Principles and techniques of digital holographic microscopy. <i>Journal of Photonics for Energy</i> , 2010 , 0180052	0.5	214
85	Wavelength-scanning digital interference holography for tomographic three-dimensional imaging by use of the angular spectrum method. <i>Optics Letters</i> , 2005 , 30, 2092-4	3	174
84	Digital Holographic Microscopy. <i>Springer Series in Optical Sciences</i> , 2011 ,	0.5	131
83	Phase imaging of cells by simultaneous dual-wavelength reflection digital holography. <i>Optics Express</i> , 2008 , 16, 10900-11	3.3	111
82	Frequency-selective time-domain optical data storage by electromagnetically induced transparency in a rare-earth-doped solid. <i>Optics Letters</i> , 1997 , 22, 1849-51	3	107
81	Digital holographic microscopy with dual-wavelength phase unwrapping. <i>Applied Optics</i> , 2006 , 45, 451-9	1.7	106
80	Full color natural light holographic camera. <i>Optics Express</i> , 2013 , 21, 9636-42	3.3	99
79	Tomographic three-dimensional imaging of a biological specimen using wavelength-scanning digital interference holography. <i>Optics Express</i> , 2000 , 7, 305-10	3.3	96
78	Terahertz digital holography using angular spectrum and dual wavelength reconstruction methods. <i>Optics Express</i> , 2011 , 19, 9192-200	3.3	94
77	Review of digital holographic microscopy for three-dimensional profiling and tracking. <i>Optical Engineering</i> , 2014 , 53, 112306	1.1	89
76	Interference techniques in digital holography. <i>Journal of Optics</i> , 2006 , 8, S518-S523		89
75	Adaptive optics by incoherent digital holography. <i>Optics Letters</i> , 2012 , 37, 2694-6	3	78
74	Wavelength-scanning digital interference holography for optical section imaging. <i>Optics Letters</i> , 1999 , 24, 1693-5	3	72
73	Digital holographic microscopy for quantitative cell dynamic evaluation during laser microsurgery. <i>Optics Express</i> , 2009 , 17, 12031-8	3.3	66
72	Single-shot self-interference incoherent digital holography using off-axis configuration. <i>Optics Letters</i> , 2013 , 38, 5196-9	3	65

71	LED-based multi-wavelength phase imaging interference microscopy. <i>Optics Express</i> , 2007 , 15, 9239-47	3.3	58
70	Movies of cellular and sub-cellular motion by digital holographic microscopy. <i>BioMedical Engineering OnLine</i> , 2006 , 5, 21	4.1	56
69	Multiple-bit long-term data storage by backward-stimulated echo in Eu(3+):YAlO(3). <i>Optics Letters</i> , 1989 , 14, 423-5	3	52
68	Incoherent digital holographic adaptive optics. <i>Applied Optics</i> , 2013 , 52, A117-30	1.7	46
67	Variable-angle total internal reflection fluorescence microscopy of intact cells of Arabidopsis thaliana. <i>Plant Methods</i> , 2011 , 7, 27	5.8	46
66	Full-color three-dimensional microscopy by wide-field optical coherence tomography. <i>Optics Express</i> , 2004 , 12, 6632-41	3.3	44
65	Digital holography of total internal reflection. <i>Optics Express</i> , 2008 , 16, 9811-20	3.3	40
64	Pixel resolution control in numerical reconstruction of digital holography. <i>Optics Letters</i> , 2006 , 31, 897-93		39
63	Measurement of the traction force of biological cells by digital holography. <i>Biomedical Optics Express</i> , 2012 , 3, 153-9	3.5	38
62	Wavelength scanning digital interference holography for variable tomographic scanning. <i>Optics Express</i> , 2005 , 13, 5621-7	3.3	36
61	Time-domain optical data storage by use of Raman coherent population trapping. <i>Optics Letters</i> , 1994 , 19, 296-8	3	36
60	Single-exposure optical sectioning by color structured illumination microscopy. <i>Optics Letters</i> , 2006 , 31, 477-9	3	35
59	Spin coherence excitation and rephasing with optically shelved atoms. <i>Physical Review B</i> , 1998 , 58, R11825-R11828	3.5	34
58	Simultaneous dual-wavelength reflection digital holography applied to the study of the porous coal samples. <i>Applied Optics</i> , 2008 , 47, 3203-10	1.7	32
57	Applications of Digital Holography in Biomedical Microscopy. <i>Journal of the Optical Society of Korea</i> , 2010 , 14, 77-89		30
56	Storage and phase conjugation of multiple images using backward-stimulated echoes in Pr3+:LaF3. <i>Optics Letters</i> , 1987 , 12, 593-5	3	30
55	Quantitative imaging of cellular adhesion by total internal reflection holographic microscopy. <i>Applied Optics</i> , 2009 , 48, H144-52	0.2	29
54	Nanosecond image processing using stimulated photon echoes. <i>Optics Letters</i> , 1990 , 15, 562-4	3	29

53	Four-dimensional motility tracking of biological cells by digital holographic microscopy. <i>Journal of Biomedical Optics</i> , 2014 , 19, 045001	3.5	26
52	Fingerprint biometry applications of digital holography and low-coherence interferography. <i>Applied Optics</i> , 2009 , 48, H9-15	0.2	22
51	Digital holographic adaptive optics for ocular imaging: proof of principle. <i>Optics Letters</i> , 2011 , 36, 2710-3		20
50	Microscopic three-dimensional imaging by digital interference holography. <i>Journal of Electronic Imaging</i> , 2003 , 12, 643	0.7	19
49	Digital Holographic Microscopy. <i>Springer Series in Optical Sciences</i> , 2011 , 149-190	0.5	17
48	Quantitative phase imaging using three-wavelength optical phase unwrapping. <i>Journal of Modern Optics</i> , 2009 , 56, 67-74	1.1	17
47	Degenerate photon echoes: simultaneous storage of multiple optical data. <i>Optics Letters</i> , 1988 , 13, 536-8		17
46	Parallel phase-shifting self-interference digital holography with faithful reconstruction using compressive sensing. <i>Optics and Lasers in Engineering</i> , 2016 , 86, 38-43	4.6	16
45	Compressive sensing sectional imaging for single-shot in-line self-interference incoherent holography. <i>Optics Communications</i> , 2016 , 366, 88-93	2	15
44	Quantitative phase-contrast confocal microscope. <i>Optics Express</i> , 2014 , 22, 17830-9	3.3	15
43	Variable tomographic scanning with wavelength scanning digital interference holography. <i>Optics Communications</i> , 2006 , 260, 462-468	2	12
42	Holographic fluorescence microscopy with incoherent digital holographic adaptive optics. <i>Journal of Biomedical Optics</i> , 2015 , 20, 111204	3.5	11
41	Hyperfine structures of praseodymium ions in solids using stimulated-photon-echo modulation. <i>Physical Review B</i> , 1991 , 44, 9826-9832	3.3	11
40	Fourier transform digital holographic adaptive optics imaging system. <i>Applied Optics</i> , 2012 , 51, 8449-54	1.7	10
39	Quantitative imaging and measurement of cell substrate surface deformation by digital holography. <i>Journal of Modern Optics</i> , 2012 , 59, 1591-1598	1.1	9
38	Hyperfine measurements of the 1D ₂ -3H ₄ transition in Pr ³⁺ : Yttrium aluminum garnet using photon echo. <i>Physical Review B</i> , 1989 , 40, 2082-2089	3.3	9
37	Signal enhanced holographic fluorescence microscopy with guide-star reconstruction. <i>Biomedical Optics Express</i> , 2016 , 7, 1271-83	3.5	9
36	Phase aberration correction by correlation in digital holographic adaptive optics. <i>Applied Optics</i> , 2013 , 52, 2940-9	1.7	8

35	Terahertz digital off-axis holography for non-destructive testing 2011 ,		8
34	cw photon echo. <i>Physical Review Letters</i> , 1989 , 63, 754-757	7.4	8
33	Digital computation of the complex linear canonical transform. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , 2011 , 28, 1379-86	1.8	7
32	Digital adaptive optics line-scanning confocal imaging system. <i>Journal of Biomedical Optics</i> , 2015 , 20, 111203	3.5	6
31	Three-dimensional angle measurement based on propagation vector analysis of digital holography. <i>Applied Optics</i> , 2007 , 46, 3539-45	1.7	6
30	Wide area quantitative phase microscopy by spatial phase scanning digital holography. <i>Optics Letters</i> , 2020 , 45, 784-786	3	6
29	Digital Holography and Multi-Wavelength Interference Techniques 2006 , 51-72		6
28	Determination of absorption coefficient by digital holographic measurement of optical excitation. <i>Applied Optics</i> , 2011 , 50, 1668-72	0.2	5
27	Digital Holography Configurations. <i>Springer Series in Optical Sciences</i> , 2011 , 55-69	0.5	3
26	In vitro imaging of ophthalmic tissue by digital interference holography. <i>Journal of Modern Optics</i> , 2010 , 57, 115-123	1.1	3
25	Noncontact single-pulse optical method to measure interfacial properties in intact systems. <i>Optics Letters</i> , 2012 , 37, 5145-7	3	3
24	Basic Methods of Numerical Diffraction. <i>Springer Series in Optical Sciences</i> , 2011 , 43-54	0.5	2
23	Design and imaging properties of a laser scanning microscope with a position-sensitive detector. <i>Journal of Modern Optics</i> , 2008 , 55, 2785-2796	1.1	2
22	Perturbation analysis of Raman echo. <i>Journal of the Optical Society of America B: Optical Physics</i> , 1998 , 15, 1780	1.7	2
21	Nonscanning three-dimensional differential holographic fluorescence microscopy. <i>Journal of Electronic Imaging</i> , 2015 , 24, 043014	0.7	1
20	Holographic fluorescence microscopy with incoherent digital holographic adaptive optics 2015 ,		1
19	Techniques of self-interference incoherent digital holography 2015 ,		1
18	Ophthalmic adaptive optics by digital holography 2013 ,		1

17	Unknown Arbitrary Phase Shift Retrieval and Holographic Reconstruction from Images Obtained from Self-Interference Incoherent Digital Holography 2013 ,		1
16	Four dimensional motility tracking of biological cells by digital holographic microscopy 2013 ,		1
15	Digital holography and 3-D imaging. <i>Applied Optics</i> , 2011 , 50, DH1-2	0.2	1
14	Nanometric measurement of optical pressure deformation of fluid interface by digital holography 2011 ,		1
13	Special Techniques of Digital Holography. <i>Springer Series in Optical Sciences</i> , 2011 , 129-147	0.5	1
12	Quantitative phase evaluation of dynamic changes on the cell membrane during laser microsurgery 2009 ,		1
11	Fingerprint scanner using digital interference holography 2009 ,		1
10	Total internal reflection holographic microscopy for quantitative phase characterization of cellular adhesion 2010 ,		1
9	Scanning photon microscopy 2005 ,		1
8	Efficient generation of Raman echo and time-domain optical data storage by electromagnetically induced transparency 1998 ,		1
7	Structured Illumination Imaging 2008 , 469-497		1
6	Phase microscopy and surface profilometry by digital holography. <i>Light Advanced Manufacturing</i> , 2022 , 3, 1	1	0
5	Low-Coherence and Tomographic Techniques. <i>Springer Series in Optical Sciences</i> , 2011 , 191-230	0.5	
4	Numerical Techniques of Digital Holography. <i>Springer Series in Optical Sciences</i> , 2011 , 109-127	0.5	
3	Optical sectioning by selective illumination feedback microscopy. <i>Journal of Modern Optics</i> , 2007 , 54, 1819-1826	1.1	
2	Chapter 12 Digital Interference Holography for Tomographic Imaging 2016 , 429-466		
1	Chapter 15 Multiwavelength Full-Field Optical Coherence Tomography 2016 , 533-564		