

# Myung K Kim

## List of Publications by Year in descending order

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125  
papers

4,721  
citations

117453

34  
h-index

106150

65  
g-index

126  
all docs

126  
docs citations

126  
times ranked

2326  
citing authors

#	ARTICLE	IF	CITATIONS
1	High-resolution quantitative phase-contrast microscopy by digital holography. Optics Express, 2005, 13, 8693.	1.7	636
2	Principles and techniques of digital holographic microscopy. Journal of Photonics for Energy, 0, , 018005.	0.8	343
3	Phase imaging without 2π ambiguity by multiwavelength digital holography. Optics Letters, 2003, 28, 1141.	1.7	335
4	Digital Holographic Microscopy. Springer Series in Optical Sciences, 2011, , .	0.5	233
5	Wavelength-scanning digital interference holography for tomographic three-dimensional imaging by use of the angular spectrum method. Optics Letters, 2005, 30, 2092.	1.7	220
6	Full color natural light holographic camera. Optics Express, 2013, 21, 9636.	1.7	175
7	Phase imaging of cells by simultaneous dual-wavelength reflection digital holography. Optics Express, 2008, 16, 10900.	1.7	158
8	Digital holographic microscopy with dual-wavelength phase unwrapping. Applied Optics, 2006, 45, 451.	2.1	154
9	Tomographic three-dimensional imaging of a biological specimen using wavelength-scanning digital interference holography. Optics Express, 2000, 7, 305.	1.7	150
10	Terahertz digital holography using angular spectrum and dual wavelength reconstruction methods. Optics Express, 2011, 19, 9192.	1.7	140
11	Review of digital holographic microscopy for three-dimensional profiling and tracking. Optical Engineering, 2014, 53, 112306.	0.5	130
12	Frequency-selective time-domain optical data storage by electromagnetically induced transparency in a rare-earth-doped solid. Optics Letters, 1997, 22, 1849.	1.7	120
13	Interference techniques in digital holography. Journal of Optics, 2006, 8, S518-S523.	1.5	114
14	Adaptive optics by incoherent digital holography. Optics Letters, 2012, 37, 2694.	1.7	109
15	Single-shot self-interference incoherent digital holography using off-axis configuration. Optics Letters, 2013, 38, 5196.	1.7	98
16	Wavelength-scanning digital interference holography for optical section imaging. Optics Letters, 1999, 24, 1693.	1.7	90
17	Digital holographic microscopy for quantitative cell dynamic evaluation during laser microsurgery. Optics Express, 2009, 17, 12031.	1.7	84
18	Incoherent digital holographic adaptive optics. Applied Optics, 2013, 52, A117.	0.9	82

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19	LED-based multi-wavelength phase imaging interference microscopy. Optics Express, 2007, 15, 9239.	1.7	77
20	Movies of cellular and sub-cellular motion by digital holographic microscopy. BioMedical Engineering OnLine, 2006, 5, 21.	1.3	71
21	Full-color three-dimensional microscopy by wide-field optical coherence tomography. Optics Express, 2004, 12, 6632.	1.7	65
22	Digital holography of total internal reflection. Optics Express, 2008, 16, 9811.	1.7	62
23	Multiple-bit long-term data storage by backward-stimulated echo in Eu <sup>3+</sup> :YAlO <sub>3</sub> . Optics Letters, 1989, 14, 423.	1.7	59
24	Variable-angle total internal reflection fluorescence microscopy of intact cells of Arabidopsis thaliana. Plant Methods, 2011, 7, 27.	1.9	51
25	Single-exposure optical sectioning by color structured illumination microscopy. Optics Letters, 2006, 31, 477.	1.7	50
26	Simultaneous dual-wavelength reflection digital holography applied to the study of the porous coal samples. Applied Optics, 2008, 47, 3203.	2.1	50
27	Measurement of the traction force of biological cells by digital holography. Biomedical Optics Express, 2012, 3, 153.	1.5	50
28	Applications of Digital Holography in Biomedical Microscopy. Journal of the Optical Society of Korea, 2010, 14, 77-89.	0.6	49
29	Spin coherence excitation and rephasing with optically shelved atoms. Physical Review B, 1998, 58, R11825-R11828.	1.1	47
30	Pixel resolution control in numerical reconstruction of digital holography. Optics Letters, 2006, 31, 897.	1.7	46
31	Wavelength scanning digital interference holography for variable tomographic scanning. Optics Express, 2005, 13, 5621.	1.7	40
32	Four-dimensional motility tracking of biological cells by digital holographic microscopy. Journal of Biomedical Optics, 2014, 19, 1.	1.4	39
33	Time-domain optical data storage by use of Raman coherent population trapping. Optics Letters, 1994, 19, 296.	1.7	37
34	Storage and phase conjugation of multiple images using backward-stimulated echoes in Pr <sup>3+</sup> :LaF <sub>3</sub> . Optics Letters, 1987, 12, 593.	1.7	36
35	Nanosecond image processing using stimulated photon echoes. Optics Letters, 1990, 15, 562.	1.7	35
36	Quantitative imaging of cellular adhesion by total internal reflection holographic microscopy. Applied Optics, 2009, 48, H144.	2.1	34

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37	Digital Holographic Microscopy. Springer Series in Optical Sciences, 2011, , 149-190.	0.5	31
38	Digital holographic adaptive optics for ocular imaging: proof of principle. Optics Letters, 2011, 36, 2710.	1.7	31
39	Microscopic three-dimensional imaging by digital interference holography. Journal of Electronic Imaging, 2003, 12, 643.	0.5	27
40	Fingerprint biometry applications of digital holography and low-coherence interferography. Applied Optics, 2009, 48, H9.	2.1	26
41	Quantitative phase imaging using three-wavelength optical phase unwrapping. Journal of Modern Optics, 2009, 56, 67-74.	0.6	23
42	Compressive sensing sectional imaging for single-shot in-line self-interference incoherent holography. Optics Communications, 2016, 366, 88-93.	1.0	21
43	Parallel phase-shifting self-interference digital holography with faithful reconstruction using compressive sensing. Optics and Lasers in Engineering, 2016, 86, 38-43.	2.0	20
44	Degenerate photon echoes: simultaneous storage of multiple optical data. Optics Letters, 1988, 13, 536.	1.7	19
45	Holographic fluorescence microscopy with incoherent digital holographic adaptive optics. Journal of Biomedical Optics, 2015, 20, 111204.	1.4	18
46	Wide area quantitative phase microscopy by spatial phase scanning digital holography. Optics Letters, 2020, 45, 784.	1.7	16
47	Quantitative phase-contrast confocal microscope. Optics Express, 2014, 22, 17830.	1.7	15
48	Signal enhanced holographic fluorescence microscopy with guide-star reconstruction. Biomedical Optics Express, 2016, 7, 1271.	1.5	15
49	Quantitative imaging and measurement of cell's substrate surface deformation by digital holography. Journal of Modern Optics, 2012, 59, 1591-1598.	0.6	14
50	Fourier transform digital holographic adaptive optics imaging system. Applied Optics, 2012, 51, 8449.	0.9	14
51	Variable tomographic scanning with wavelength scanning digital interference holography. Optics Communications, 2006, 260, 462-468.	1.0	12
52	Hyperfine structures of praseodymium ions in solids using stimulated-photon-echo modulation. Physical Review B, 1991, 44, 9826-9832.	1.1	11
53	Determination of absorption coefficient by digital holographic measurement of optical excitation. Applied Optics, 2011, 50, 1668.	2.1	11
54	Phase aberration correction by correlation in digital holographic adaptive optics. Applied Optics, 2013, 52, 2940.	0.9	11

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55	Phase microscopy and surface profilometry by digital holography. Light Advanced Manufacturing, 2022, 3, 1.	2.2	10
56	cw photon echo. Physical Review Letters, 1989, 63, 754-757.	2.9	9
57	Hyperfine measurements of the $D_{21} \sim ^3H_4$ transition in $Pr^{3+}$ : Yttrium aluminum garnet using photon echo. Physical Review B, 1989, 40, 2082-2089.	1.1	9
58	Terahertz digital off-axis holography for non-destructive testing. , 2011, , .		9
59	Digital computation of the complex linear canonical transform. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2011, 28, 1379.	0.8	8
60	Three-dimensional angle measurement based on propagation vector analysis of digital holography. Applied Optics, 2007, 46, 3539.	2.1	7
61	Digital adaptive optics line-scanning confocal imaging system. Journal of Biomedical Optics, 2015, 20, 111203.	1.4	7
62	Digital Holography and Multi-Wavelength Interference Techniques. , 2006, , 51-72.		7
63	Nonscanning three-dimensional differential holographic fluorescence microscopy. Journal of Electronic Imaging, 2015, 24, 043014.	0.5	6
64	Perturbation analysis of Raman echo. Journal of the Optical Society of America B: Optical Physics, 1998, 15, 1780.	0.9	3
65	Scanning photon microscopy. , 2005, , .		3
66	Design and imaging properties of a laser scanning microscope with a position-sensitive detector. Journal of Modern Optics, 2008, 55, 2785-2796.	0.6	3
67	In vitro imaging of ophthalmic tissue by digital interference holography. Journal of Modern Optics, 2010, 57, 115-123.	0.6	3
68	Digital Holography Configurations. Springer Series in Optical Sciences, 2011, , 55-69.	0.5	3
69	High-precision method for measuring the photothermal properties of transparent media with digital holography (Invited Paper). Chinese Optics Letters, 2011, 9, 120001-120004.	1.3	3
70	Noncontact single-pulse optical method to measure interfacial properties in intact systems. Optics Letters, 2012, 37, 5145.	1.7	3
71	Fingerprint scanner using digital interference holography. Proceedings of SPIE, 2009, , .	0.8	2
72	Basic Methods of Numerical Diffraction. Springer Series in Optical Sciences, 2011, , 43-54.	0.5	2

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73	Joint Applied Optics and Chinese Optics Letters feature introduction: digital holography and three-dimensional imaging. Applied Optics, 2011, 50, DH1.	2.1	2
74	Nanometric measurement of optical pressure deformation of fluid interface by digital holography. Proceedings of SPIE, 2011, , .	0.8	2
75	Unknown Arbitrary Phase Shift Retrieval and Holographic Reconstruction from Images Obtained from Self-Interference Incoherent Digital Holography. , 2013, , .		2
76	Techniques of self-interference incoherent digital holography. , 2015, , .		2
77	<title>Efficient generation of Raman echo and time-domain optical data storage by electromagnetically induced transparency</title>. , 1998, , .		1
78	Quantitative phase evaluation of dynamic changes on the cell membrane during laser microsurgery. , 2009, , .		1
79	Total internal reflection holographic microscopy for quantitative phase characterization of cellular adhesion. Proceedings of SPIE, 2010, , .	0.8	1
80	Special Techniques of Digital Holography. Springer Series in Optical Sciences, 2011, , 129-147.	0.5	1
81	Ophthalmic adaptive optics by digital holography. , 2013, , .		1
82	Holographic Camera Uses Full-Color Natural Light. Optics and Photonics News, 2013, 24, 27.	0.4	1
83	Four dimensional motility tracking of biological cells by digital holographic microscopy. , 2013, , .		1
84	Holographic fluorescence microscopy with incoherent digital holographic adaptive optics. , 2015, , .		1
85	Structured Illumination Imaging. , 2008, , 469-497.		1
86	Transmission digital holography microscopy applied to the study of coal palynofacies. Proceedings of SPIE, 2006, , .	0.8	0
87	Optical sectioning by selective illumination feedback microscopy. Journal of Modern Optics, 2007, 54, 1819-1826.	0.6	0
88	Animal Tissue Tomography by Digital Interference Holography. , 2007, , .		0
89	Cellular imagery with total internal reflection holographic microscopy. , 2009, , .		0
90	Quantitative characterization of cellular adhesions with Total Internal Reflection Holographic Microscopy. , 2010, , .		0

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91	Low-Coherence and Tomographic Techniques. Springer Series in Optical Sciences, 2011, , 191-230.	0.5	0
92	Numerical Techniques of Digital Holography. Springer Series in Optical Sciences, 2011, , 109-127.	0.5	0
93	Holographic 3D photography under ambient light. , 2014, , .		0
94	Parametric studies of adaptive optics by self-interference incoherent digital holography. Proceedings of SPIE, 2014, , .	0.8	0
95	Study of self-interference incoherent digital holography for the application of retinal imaging. , 2014, , .		0
96	Phase retrieval of microscope objects using the Wavelet-Gabor transform method from holographic filters. Proceedings of SPIE, 2014, , .	0.8	0
97	Holographic 3D fluorescence microscopy. Proceedings of SPIE, 2015, , .	0.8	0
98	Differential fluorescence holography. , 2015, , .		0
99	Holographic Techniques for Biomedical Microscopy. , 2016, , .		0
100	Extended synthetic wavelength phase imaging by multiwavelength digital holography. Proceedings of SPIE, 2016, , .	0.8	0
101	Holographic techniques for cellular fluorescence microscopy. Proceedings of SPIE, 2017, , .	0.8	0
102	Decoupling of thermal effects to image nanometric optical pressure deformation by digital holography. , 2011, , .		0
103	Time-dependent phase response of fluid interface to optical excitation. , 2011, , .		0
104	Biological imaging by Digital Holographic Adaptive Optics. , 2012, , .		0
105	Time-dependent Surface Response of Fluid to Transmission Optical Pressure Impulse. , 2012, , .		0
106	Digital Holographic Adaptive Optics Techniques with Coherent or Incoherent Sources. , 2012, , .		0
107	In Vitro Bovine Retina Imaging by Digital Holographic Adaptive Optics. , 2012, , .		0
108	Quantitative imaging of surface deformation on substrata due to cell motility by digital holography. , 2012, , .		0

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109	A Proposal for Astronomical Adaptive Optics by Incoherent Digital Holography. , 2012, , .		0
110	Quantitative imaging and measurement of cell-substrate surface deformation by digital holography. , 2012, , .		0
111	Adaptive Optics by Digital Holography. , 2012, , .		0
112	Simulation and Experiment of Fourier Transform Digital Holographic Adaptive Optics. , 2013, , .		0
113	Image synthesis for off axis low coherence digital holography. , 2013, , .		0
114	Digital Holography of Natural Scenes. , 2013, , .		0
115	Full color holographic imaging under daylight illumination. , 2013, , .		0
116	Resolution enhancement of incoherent digital holography using the super resolution image reconstruction technique. , 2013, , .		0
117	Four dimensional motility tracking of biological cells by digital holographic microscopy. , 2013, , .		0
118	Holographic Line-Scanning Confocal Microscope. , 2014, , .		0
119	X-ray Holographic Microscopy by Self-Interference Incoherent Digital Holography. , 2014, , .		0
120	Self-Interference Incoherent Digital Holography for Holographic Fluorescence Microscopy. , 2015, , .		0
121	Holographic fluorescence microscopy with self-interference incoherent digital holography. , 2016, , .		0
122	Non-Scanning Holography Fluorescence Microscopy. , 2016, , .		0
123	Chapter 12 Digital Interference Holography for Tomographic Imaging. , 2016, , 429-466.		0
124	Chapter 15 Multiwavelength Full-Field Optical Coherence Tomography. , 2016, , 533-564.		0
125	Wide area holographic microscopy by spatial phase scanning. , 2020, , .		0