

# 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	Phase microscopy and surface profilometry by digital holography. Light Advanced Manufacturing, 2022, 3, 1.	2.2	10
2	Wide area quantitative phase microscopy by spatial phase scanning digital holography. Optics Letters, 2020, 45, 784.	1.7	16
3	Wide area holographic microscopy by spatial phase scanning. , 2020, , .		0
4	Holographic techniques for cellular fluorescence microscopy. Proceedings of SPIE, 2017, , .	0.8	0
5	Holographic Techniques for Biomedical Microscopy. , 2016, , .		0
6	Signal enhanced holographic fluorescence microscopy with guide-star reconstruction. Biomedical Optics Express, 2016, 7, 1271.	1.5	15
7	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
8	Extended synthetic wavelength phase imaging by multiwavelength digital holography. Proceedings of SPIE, 2016, , .	0.8	0
9	Compressive sensing sectional imaging for single-shot in-line self-interference incoherent holography. Optics Communications, 2016, 366, 88-93.	1.0	21
10	Holographic fluorescence microscopy with self-interference incoherent digital holography. , 2016, , .		0
11	Non-Scanning Holography Fluorescence Microscopy. , 2016, , .		0
12	Chapter 12 Digital Interference Holography for Tomographic Imaging. , 2016, , 429-466.		0
13	Chapter 15 Multiwavelength Full-Field Optical Coherence Tomography. , 2016, , 533-564.		0
14	Holographic fluorescence microscopy with incoherent digital holographic adaptive optics. , 2015, , .		1
15	Digital adaptive optics line-scanning confocal imaging system. Journal of Biomedical Optics, 2015, 20, 111203.	1.4	7
16	Techniques of self-interference incoherent digital holography. , 2015, , .		2
17	Holographic fluorescence microscopy with incoherent digital holographic adaptive optics. Journal of Biomedical Optics, 2015, 20, 111204.	1.4	18
18	Holographic 3D fluorescence microscopy. Proceedings of SPIE, 2015, , .	0.8	0

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19	Differential fluorescence holography. , 2015, , .		0
20	Nonscanning three-dimensional differential holographic fluorescence microscopy. Journal of Electronic Imaging, 2015, 24, 043014.	0.5	6
21	Self-Interference Incoherent Digital Holography for Holographic Fluorescence Microscopy. , 2015, , .		0
22	Holographic 3D photography under ambient light. , 2014, , .		0
23	Parametric studies of adaptive optics by self-interference incoherent digital holography. Proceedings of SPIE, 2014, , .	0.8	0
24	Quantitative phase-contrast confocal microscope. Optics Express, 2014, 22, 17830.	1.7	15
25	Review of digital holographic microscopy for three-dimensional profiling and tracking. Optical Engineering, 2014, 53, 112306.	0.5	130
26	Study of self-interference incoherent digital holography for the application of retinal imaging. , 2014, , .		0
27	Four-dimensional motility tracking of biological cells by digital holographic microscopy. Journal of Biomedical Optics, 2014, 19, 1.	1.4	39
28	Phase retrieval of microscope objects using the Wavelet-Gabor transform method from holographic filters. Proceedings of SPIE, 2014, , .	0.8	0
29	Holographic Line-Scanning Confocal Microscope. , 2014, , .		0
30	X-ray Holographic Microscopy by Self-Interference Incoherent Digital Holography. , 2014, , .		0
31	Phase aberration correction by correlation in digital holographic adaptive optics. Applied Optics, 2013, 52, 2940.	0.9	11
32	Ophthalmic adaptive optics by digital holography. , 2013, , .		1
33	Unknown Arbitrary Phase Shift Retrieval and Holographic Reconstruction from Images Obtained from Self-Interference Incoherent Digital Holography. , 2013, , .		2
34	Full color natural light holographic camera. Optics Express, 2013, 21, 9636.	1.7	175
35	Single-shot self-interference incoherent digital holography using off-axis configuration. Optics Letters, 2013, 38, 5196.	1.7	98
36	Incoherent digital holographic adaptive optics. Applied Optics, 2013, 52, A117.	0.9	82

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37	Holographic Camera Uses Full-Color Natural Light. Optics and Photonics News, 2013, 24, 27.	0.4	1
38	Four dimensional motility tracking of biological cells by digital holographic microscopy. , 2013, , .		1
39	Simulation and Experiment of Fourier Transform Digital Holographic Adaptive Optics. , 2013, , .		0
40	Image synthesis for off axis low coherence digital holography. , 2013, , .		0
41	Digital Holography of Natural Scenes. , 2013, , .		0
42	Full color holographic imaging under daylight illumination. , 2013, , .		0
43	Resolution enhancement of incoherent digital holography using the super resolution image reconstruction technique. , 2013, , .		0
44	Four dimensional motility tracking of biological cells by digital holographic microscopy. , 2013, , .		0
45	Noncontact single-pulse optical method to measure interfacial properties in intact systems. Optics Letters, 2012, 37, 5145.	1.7	3
46	Measurement of the traction force of biological cells by digital holography. Biomedical Optics Express, 2012, 3, 153.	1.5	50
47	Quantitative imaging and measurement of cell's substrate surface deformation by digital holography. Journal of Modern Optics, 2012, 59, 1591-1598.	0.6	14
48	Fourier transform digital holographic adaptive optics imaging system. Applied Optics, 2012, 51, 8449.	0.9	14
49	Adaptive optics by incoherent digital holography. Optics Letters, 2012, 37, 2694.	1.7	109
50	Biological imaging by Digital Holographic Adaptive Optics. , 2012, , .		0
51	Time-dependent Surface Response of Fluid to Transmission Optical Pressure Impulse. , 2012, , .		0
52	Digital Holographic Adaptive Optics Techniques with Coherent or Incoherent Sources. , 2012, , .		0
53	In Vitro Bovine Retina Imaging by Digital Holographic Adaptive Optics. , 2012, , .		0
54	Quantitative imaging of surface deformation on substrata due to cell motility by digital holography. , 2012, , .		0

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55	A Proposal for Astronomical Adaptive Optics by Incoherent Digital Holography. , 2012, , .		0
56	Quantitative imaging and measurement of cell-substrate surface deformation by digital holography. , 2012, , .		0
57	Adaptive Optics by Digital Holography. , 2012, , .		0
58	Terahertz digital off-axis holography for non-destructive testing. , 2011, , .		9
59	Basic Methods of Numerical Diffraction. Springer Series in Optical Sciences, 2011, , 43-54.	0.5	2
60	Digital Holography Configurations. Springer Series in Optical Sciences, 2011, , 55-69.	0.5	3
61	Low-Coherence and Tomographic Techniques. Springer Series in Optical Sciences, 2011, , 191-230.	0.5	0
62	Digital Holographic Microscopy. Springer Series in Optical Sciences, 2011, , 149-190.	0.5	31
63	Numerical Techniques of Digital Holography. Springer Series in Optical Sciences, 2011, , 109-127.	0.5	0
64	Digital Holographic Microscopy. Springer Series in Optical Sciences, 2011, , .	0.5	233
65	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
66	Determination of absorption coefficient by digital holographic measurement of optical excitation. Applied Optics, 2011, 50, 1668.	2.1	11
67	Joint Applied Optics and Chinese Optics Letters feature introduction: digital holography and three-dimensional imaging. Applied Optics, 2011, 50, DH1.	2.1	2
68	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
69	Terahertz digital holography using angular spectrum and dual wavelength reconstruction methods. Optics Express, 2011, 19, 9192.	1.7	140
70	Digital holographic adaptive optics for ocular imaging: proof of principle. Optics Letters, 2011, 36, 2710.	1.7	31
71	Nanometric measurement of optical pressure deformation of fluid interface by digital holography. Proceedings of SPIE, 2011, , .	0.8	2
72	Special Techniques of Digital Holography. Springer Series in Optical Sciences, 2011, , 129-147.	0.5	1

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73	Variable-angle total internal reflection fluorescence microscopy of intact cells of <i>Arabidopsis thaliana</i> . <i>Plant Methods</i> , 2011, 7, 27.	1.9	51
74	Decoupling of thermal effects to image nanometric optical pressure deformation by digital holography. , 2011, , .		0
75	Time-dependent phase response of fluid interface to optical excitation. , 2011, , .		0
76	Total internal reflection holographic microscopy for quantitative phase characterization of cellular adhesion. <i>Proceedings of SPIE</i> , 2010, , .	0.8	1
77	Quantitative characterization of cellular adhesions with Total Internal Reflection Holographic Microscopy. , 2010, , .		0
78	In vitro imaging of ophthalmic tissue by digital interference holography. <i>Journal of Modern Optics</i> , 2010, 57, 115-123.	0.6	3
79	Applications of Digital Holography in Biomedical Microscopy. <i>Journal of the Optical Society of Korea</i> , 2010, 14, 77-89.	0.6	49
80	Cellular imagery with total internal reflection holographic microscopy. , 2009, , .		0
81	Quantitative phase evaluation of dynamic changes on the cell membrane during laser microsurgery. , 2009, , .		1
82	Quantitative phase imaging using three-wavelength optical phase unwrapping. <i>Journal of Modern Optics</i> , 2009, 56, 67-74.	0.6	23
83	Digital holographic microscopy for quantitative cell dynamic evaluation during laser microsurgery. <i>Optics Express</i> , 2009, 17, 12031.	1.7	84
84	Quantitative imaging of cellular adhesion by total internal reflection holographic microscopy. <i>Applied Optics</i> , 2009, 48, H144.	2.1	34
85	Fingerprint biometry applications of digital holography and low-coherence interferography. <i>Applied Optics</i> , 2009, 48, H9.	2.1	26
86	Fingerprint scanner using digital interference holography. <i>Proceedings of SPIE</i> , 2009, , .	0.8	2
87	Simultaneous dual-wavelength reflection digital holography applied to the study of the porous coal samples. <i>Applied Optics</i> , 2008, 47, 3203.	2.1	50
88	Digital holography of total internal reflection. <i>Optics Express</i> , 2008, 16, 9811.	1.7	62
89	Phase imaging of cells by simultaneous dual-wavelength reflection digital holography. <i>Optics Express</i> , 2008, 16, 10900.	1.7	158
90	Design and imaging properties of a laser scanning microscope with a position-sensitive detector. <i>Journal of Modern Optics</i> , 2008, 55, 2785-2796.	0.6	3

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91	Structured Illumination Imaging. , 2008, , 469-497.		1
92	LED-based multi-wavelength phase imaging interference microscopy. Optics Express, 2007, 15, 9239.	1.7	77
93	Three-dimensional angle measurement based on propagation vector analysis of digital holography. Applied Optics, 2007, 46, 3539.	2.1	7
94	Optical sectioning by selective illumination feedback microscopy. Journal of Modern Optics, 2007, 54, 1819-1826.	0.6	0
95	Animal Tissue Tomography by Digital Interference Holography. , 2007, , .		0
96	Movies of cellular and sub-cellular motion by digital holographic microscopy. BioMedical Engineering OnLine, 2006, 5, 21.	1.3	71
97	Single-exposure optical sectioning by color structured illumination microscopy. Optics Letters, 2006, 31, 477.	1.7	50
98	Pixel resolution control in numerical reconstruction of digital holography. Optics Letters, 2006, 31, 897.	1.7	46
99	Digital holographic microscopy with dual-wavelength phase unwrapping. Applied Optics, 2006, 45, 451.	2.1	154
100	Variable tomographic scanning with wavelength scanning digital interference holography. Optics Communications, 2006, 260, 462-468.	1.0	12
101	Transmission digital holography microscopy applied to the study of coal palynofacies. Proceedings of SPIE, 2006, , .	0.8	0
102	Digital Holography and Multi-Wavelength Interference Techniques. , 2006, , 51-72.		7
103	Interference techniques in digital holography. Journal of Optics, 2006, 8, S518-S523.	1.5	114
104	Scanning photon microscopy. , 2005, , .		3
105	Wavelength scanning digital interference holography for variable tomographic scanning. Optics Express, 2005, 13, 5621.	1.7	40
106	High-resolution quantitative phase-contrast microscopy by digital holography. Optics Express, 2005, 13, 8693.	1.7	636
107	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
108	Full-color three-dimensional microscopy by wide-field optical coherence tomography. Optics Express, 2004, 12, 6632.	1.7	65

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109	Phase imaging without 2π ambiguity by multiwavelength digital holography. Optics Letters, 2003, 28, 1141.	1.7	335
110	Microscopic three-dimensional imaging by digital interference holography. Journal of Electronic Imaging, 2003, 12, 643.	0.5	27
111	Tomographic three-dimensional imaging of a biological specimen using wavelength-scanning digital interference holography. Optics Express, 2000, 7, 305.	1.7	150
112	Wavelength-scanning digital interference holography for optical section imaging. Optics Letters, 1999, 24, 1693.	1.7	90
113	Perturbation analysis of Raman echo. Journal of the Optical Society of America B: Optical Physics, 1998, 15, 1780.	0.9	3
114	Spin coherence excitation and rephasing with optically shelved atoms. Physical Review B, 1998, 58, R11825-R11828.	1.1	47
115	<title>Efficient generation of Raman echo and time-domain optical data storage by electromagnetically induced transparency</title>., 1998, , .		1
116	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
117	Time-domain optical data storage by use of Raman coherent population trapping. Optics Letters, 1994, 19, 296.	1.7	37
118	Hyperfine structures of praseodymium ions in solids using stimulated-photon-echo modulation. Physical Review B, 1991, 44, 9826-9832.	1.1	11
119	Nanosecond image processing using stimulated photon echoes. Optics Letters, 1990, 15, 562.	1.7	35
120	cw photon echo. Physical Review Letters, 1989, 63, 754-757.	2.9	9
121	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
122	Hyperfine measurements of the D <sub>2</sub> 1 <sup>2</sup> → <sup>3</sup> H <sub>4</sub> transition in Pr <sup>3+</sup> : Yttrium aluminum garnet using photon echo. Physical Review B, 1989, 40, 2082-2089.	1.1	9
123	Degenerate photon echoes: simultaneous storage of multiple optical data. Optics Letters, 1988, 13, 536.	1.7	19
124	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
125	Principles and techniques of digital holographic microscopy. Journal of Photonics for Energy, 0, , 018005.	0.8	343