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List of Publications by Year
in descending order

50 papers	1,153 citations	471509 17 h-index	395702 33 g-index
50 all docs	50 docs citations	50 times ranked	1034 citing authors

#	Article	IF	Citations
1	Genetically encoded sensors enable micro- and nano-scopic decoding of transmission in healthy and diseased brains. Molecular Psychiatry, 2021, 26, 443-455.	7.9	9
2	Deep Learning Assisted Zonal Adaptive Aberration Correction. Frontiers in Physics, 2021, 8, .	2.1	11
3	Adaptive optics for structured illumination microscopy based on deep learning. Cytometry Part A: the Journal of the International Society for Analytical Cytology, 2021, 99, 622-631.	1.5	3
4	Deep learning based wavefront sensor for complex wavefront detection in adaptive optical microscopes. Frontiers of Information Technology and Electronic Engineering, 2021, 22, 1277-1288.	2.6	5
5	Image enhancement for fluorescence microscopy based on deep learning with prior knowledge of aberration. Optics Letters, 2021, 46, 2055.	3.3	10
6	Organizational principles of amygdalar input-output neuronal circuits. Molecular Psychiatry, 2021, 26, 7118-7129.	7.9	21
7	Fully end-to-end deep-learning-based diagnosis of pancreatic tumors. Theranostics, 2021, 11, 1982-1990.	10.0	54
8	Reliability of wavefront shaping based on coherent optical adaptive technique in deep tissue focusing. Journal of Biophotonics, 2020, 13, e201900245.	2.3	3
9	Multiple guide stars optimization in conjugate adaptive optics for deep tissue imaging. Optics Communications, 2020, 459, 124891.	2.1	1
10	Simplifying the detection of optical distortions by machine learning. Journal of Innovative Optical Health Sciences, 2020, 13, .	1.0	7
11	Wavefront reconstruction based on deep transfer learning for microscopy. Optics Express, 2020, 28, 20738.	3.4	10
12	Deep learning assisted Shackâ€“Hartmann wavefront sensor for direct wavefront detection. Optics Letters, 2020, 45, 3741.	3.3	33
13	Enlarged field of view based on Schwartz modulation for light sheet fluorescence microscopy in deep tissue. Optics Letters, 2020, 45, 4851.	3.3	6
14	Learning-based Shack-Hartmann wavefront sensor for high-order aberration detection: erratum. Optics Express, 2020, 28, 32132.	3.4	2
15	Large field of view correction by using conjugate adaptive optics with multiple guide stars. Journal of Biophotonics, 2019, 12, e201800225.	2.3	7
16	Multidither coherent optical adaptive technique for deep tissue two-photon microscopy. Journal of Innovative Optical Health Sciences, 2019, 12, .	1.0	5
17	Feature coupling photoacoustic computed tomography for joint reconstruction of initial pressure and sound speed in vivo. Biomedical Optics Express, 2019, 10, 3447.	2.9	23
18	Aberration corrections of doughnut beam by adaptive optics in the turbid medium. Journal of Biophotonics, 2019, 12, e201900125.	2.3	3

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19	Ultrafast optical clearing method for three-dimensional imaging with cellular resolution. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 11480-11489.	7.1	77
20	Improvements with divided cosine-shaped apertures in confocal microscopy. Optics Communications, 2019, 442, 71-76.	2.1	2
21	Twoâ€photon focal modulation microscopy for highâ€resolution imaging in deep tissue. Journal of Biophotonics, 2019, 12, e201800247.	2.3	12
22	Streak artifact suppression in photoacoustic computed tomography using adaptive back projection. Biomedical Optics Express, 2019, 10, 4803.	2.9	13
23	Machine learning based adaptive optics for doughnut-shaped beam. Optics Express, 2019, 27, 16871.	3.4	20
24	Learning-based Shack-Hartmann wavefront sensor for high-order aberration detection. Optics Express, 2019, 27, 33504.	3.4	55
25	Optimization for imaging through scattering media for confocal microscopes with divided elliptical apertures. Journal of Biophotonics, 2018, 11, e201700293.	2.3	2
26	Deep learning enables automated scoring of liver fibrosis stages. Scientific Reports, 2018, 8, 16016.	3.3	81
27	Machine learning guided rapid focusing with sensor-less aberration corrections. Optics Express, 2018, 26, 30162.	3.4	50
28	Super-resolution microscopy and its applications in neuroscience. Journal of Innovative Optical Health Sciences, 2017, 10, 1730001.	1.0	5
29	Optical Brain Imaging: A Powerful Tool for Neuroscience. Neuroscience Bulletin, 2017, 33, 95-102.	2.9	16
30	Numerical studies of focal modulation microscopy in high-NA system. Optics Express, 2016, 24, 19138.	3.4	7
31	Stripe-shaped apertures in confocal microscopy. Applied Optics, 2016, 55, 7613.	2.1	6
32	Opto-ultrasound imaging in vivo in deep tissue. Journal of Physics: Conference Series, 2016, 679, 012058.	0.4	0
33	Improvements of axial resolution in confocal microscopy with fan-shaped apertures. Applied Optics, 2015, 54, 1354.	1.8	15
34	Complex wavefront corrections for deep tissue focusing using low coherence backscattered light. Optics Express, 2012, 20, 16532.	3.4	63
35	Parallel wavefront measurements in ultrasound pulse guided digital phase conjugation. Optics Express, 2012, 20, 24827.	3.4	16
36	Breaking the spatial resolution barrier via iterative sound-light interaction in deep tissue microscopy. Scientific Reports, 2012, 2, 748.	3.3	63

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37	Fluorescence imaging beyond the ballistic regime by ultrasound-pulse-guided digital phase conjugation. Nature Photonics, 2012, 6, 657-661.	31.4	238
38	Polarization effects in 4Pi microscopy. Micron, 2011, 42, 353-359.	2.2	10
39	Enhanced background rejection in thick tissue using focal modulation microscopy with quadrant apertures. Optics Communications, 2011, 284, 1475-1480.	2.1	10
40	Two-photon focal modulation microscopy in turbid media. Applied Physics Letters, 2011, 99, .	3.3	12
41	Focal modulation microscopy with annular apertures: A numerical study. Journal of Biophotonics, 2010, 3, 476-484.	2.3	24
42	Divided-aperture technique for fluorescence confocal microscopy through scattering media. Applied Optics, 2010, 49, 752.	2.1	8
43	Improvements in confocal microscopy imaging using serrated divided apertures. Optics Communications, 2009, 282, 3846-3849.	2.1	8
44	Improved spatial resolution in fluorescence focal modulation microscopy. Optics Letters, 2009, 34, 3508.	3.3	31
45	Three-dimensional coherent transfer function for a confocal microscope with two D-shaped pupils. Applied Optics, 2009, 48, 810.	2.1	19
46	Model for light scattering in biological tissue and cells based on random rough nonspherical particles. Applied Optics, 2009, 48, 1153.	2.1	8
47	Optimization of axial resolution in a confocal microscope with D-shaped apertures. Applied Optics, 2009, 48, 3998.	2.1	24
48	Edge enhancement for in-phase focal modulation microscope. Applied Optics, 2009, 48, 6290.	2.1	8
49	The divided aperture technique for microscopy through scattering media. Optics Express, 2008, 16, 17031.	3.4	37
50	Three-Dimensional Virtual Optical Clearing With Cycle-Consistent Generative Adversarial Network. Frontiers in Physics, 0, 10, .	2.1	0