Tong Ye

List of Publications by Year
in descending order

109 papers	2,697 citations	201674 27 h-index	197818 49 g-index
109 all docs	109 docs citations	109 times ranked	3084 citing authors

#	Article	IF	Citations
1	Human cardiac organoids for the modelling of myocardial infarction and drug cardiotoxicity. Nature Biomedical Engineering, 2020, 4, 446-462.	22.5	232
2	DMD-based LED-illumination Super-resolution and optical sectioning microscopy. Scientific Reports, 2013, 3, 1116.	3.3	218
3	LRRK2 secretion in exosomes is regulated by 14-3-3. Human Molecular Genetics, 2013, 22, 4988-5000.	2.9	142
4	Two-color, two-photon, and excited-state absorption microscopy. Journal of Biomedical Optics, 2007, 12, 054004.	2.6	138
5	High-resolution in vivo imaging of blood vessels without labeling. Optics Letters, 2007, 32, 2641.	3.3	112
6	On the Nature of the Primary Light-Induced Events in Bacteriorhodopsin:Â Ultrafast Spectroscopy of Native and C13=C14Locked Pigments. Journal of Physical Chemistry B, 1999, 103, 5122-5130.	2.6	87
7	Ultrafast Nonradiative Relaxation Dynamics of Eumelanin. Journal of Physical Chemistry B, 2001, 105, 2864-2866.	2.6	82
8	Wilms' tumor 1 (Wt1) regulates pleural mesothelial cell plasticity and transition into myofibroblasts in idiopathic pulmonary fibrosis. FASEB Journal, 2014, 28, 1122-1131.	0.5	80
9	Photoionization Thresholds of Melanins Obtained from Free Electron Laserâ€Photoelectron Emission Microscopy, Femtosecond Transient Absorption Spectroscopy and Electron Paramagnetic Resonance Measurements of Oxygen Photoconsumption. Photochemistry and Photobiology, 2006, 82, 733-737.	2.5	76
10	Parallel two-step phase-shifting point-diffraction interferometry for microscopy based on a pair of cube beamsplitters. Optics Express, 2011, 19, 1930.	3.4	76
11	Autofocusing of digital holographic microscopy based on off-axis illuminations. Optics Letters, 2012, 37, 3630.	3.3	66
12	Nonlinear Absorption Microscopy^{â€}. Photochemistry and Photobiology, 2009, 85, 631-645.	2.5	64
13	Comparison of the Ultrafast Absorption Dynamics of Eumelanin and Pheomelanin. Journal of Physical Chemistry B, 2003, 107, 11240-11244.	2.6	51
14	Label-free in vivo optical imaging of microvasculature and oxygenation level. Journal of Biomedical Optics, 2008, 13, 040503.	2.6	49
15	Autofocusing based on wavelength dependence of diffraction in two-wavelength digital holographic microscopy. Optics Letters, 2012, 37, 1172.	3.3	48
16	Dual-wavelength slightly off-axis digital holographic microscopy. Applied Optics, 2012, 51, 191.	1.8	48
17	Probing skin pigmentation changes with transient absorption imaging of eumelanin and pheomelanin. Journal of Biomedical Optics, 2008, 13, 054036.	2.6	46
18	Resolution improvement in STED super-resolution microscopy at low power using a phasor plot approach. Nanoscale, 2018, 10, 16252-16260.	5.6	46

#	Article	IF	Citations
19	Resolving the primary dynamics of bacteriorhodopsin, and of a `C13î˜...C14 locked' analog, in the reactive excited state. Chemical Physics Letters, 1999, 314, 429-434.	2.6	45
20	Two-photon absorption and self-phase modulation measurements with shaped femtosecond laser pulses. Optics Letters, 2005, 30, 1551.	3.3	43
21	Parallel two-step phase-shifting digital holograph microscopy based on a grating pair. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2011, 28, 434.	1.5	40
22	Primary Photophysical Properties of A2E in Solution. Journal of Physical Chemistry B, 2001, 105, 11507-11512.	2.6	39
23	Photogeneration and Quenching of Reactive Oxygen Species by Urocanic Acid. Journal of the American Chemical Society, 2002, 124, 3461-3468.	13.7	38
24	Coherent optical adaptive technique improves the spatial resolution of STED microscopy in thick samples. Photonics Research, 2017, 5, 176.	7.0	36
25	Off-axis digital holographic microscopy with LED illumination based on polarization filtering. Applied Optics, 2013, 52, 8233.	1.8	33
26	Digital holographic microscopy with phase-shift-free structured illumination. Photonics Research, 2014, 2, 87.	7.0	31
27	Subpicosecond Transient Dynamics in Gold Nanoparticles Encapsulated by a Fluorophore-Terminated Monolayer. Journal of Physical Chemistry B, 2003, 107, 1765-1771.	2.6	29
28	Different Molecular Constituents in Pheomelanin are Responsible for Emission, Transient Absorption and Oxygen Photoconsumption. Photochemistry and Photobiology, 2008, 84, 437-443.	2.5	28
29	Double-Exposure Optical Sectioning Structured Illumination Microscopy Based on Hilbert Transform Reconstruction. PLoS ONE, 2015, 10, e0120892.	2.5	27
30	Parallel phase-shifting interferometry based on Michelson-like architecture. Applied Optics, 2010, 49, 6612.	2.1	26
31	Aberration correction for improving the image quality in STED microscopy using the genetic algorithm. Nanophotonics, 2018, 7, 1971-1980.	6.0	26
32	Parallel two-step phase-shifting microscopic interferometry based on a cube beamsplitter. Optics Communications, 2011, 284, 4136-4140.	2.1	24
33	Parallel on-axis phase-shifting holographic phase microscopy based on reflective point-diffraction interferometer with long-term stability. Applied Optics, 2013, 52, 3484.	1.8	24
34	Fluorescence volume imaging with an axicon: simulation study based on scalar diffraction method. Applied Optics, 2012, 51, 7236.	1.8	23
35	Long-Distance Axial Trapping with Focused Annular Laser Beams. PLoS ONE, 2013, 8, e57984.	2.5	22
36	Non-isomerizable artificial pigments: implications for the primary light-induced events in bacteriorhodopsin. Biochemistry (Moscow), 2001, 66, 1210-1219.	1.5	21

#	Article	IF	Citations
37	Ultrafast Energy Transfer from Bound Tetra(4-N,N,N,N-trimethylanilinium)porphyrin to Synthetic Dopa and Cysteinyldopa MelaninsÂ¶. Photochemistry and Photobiology, 2003, 77, 1.	2.5	21
38	Long-Term In Vivo Imaging of Multiple Organs at the Single Cell Level. PLoS ONE, 2013, 8, e52087.	2.5	18
39	Spectroscopy and Photoreactivity of Trichochromes: Molecular Components of Pheomelaninsâ€. Photochemistry and Photobiology, 2006, 82, 318.	2.5	17
40	Generation of three-dimensional optical structures by dynamic holograms displayed on a twisted nematic liquid crystal display. Applied Physics B: Lasers and Optics, 2013, 110, 531-537.	2.2	17
41	Interleaved segment correction achieves higher improvement factors in using genetic algorithm to optimize light focusing through scattering media. Journal of Optics (United Kingdom), 2017, 19, 105602.	2.2	17
42	Ultrafast Spectroscopic Study of Pheomelanin:Â Implications on the Mechanism of Superoxide Anion Formation. Journal of Physical Chemistry B, 2002, 106, 6133-6135.	2.6	16
43	Shaping the on-axis intensity profile of generalized Bessel beams by iterative optimization methods. Journal of Optics (United Kingdom), 2018, 20, 085603.	2.2	16
44	In-vivo imaging of melanoma with simultaneous dual-wavelength acoustic-resolution-based photoacoustic/ultrasound microscopy. Applied Optics, 2021, 60, 3772.	1.8	16
45	Two-photon excited autofluorescence imaging of freshly isolated frog retinas. Biomedical Optics Express, 2011, 2, 1494.	2.9	15
46	Prediction of optical modulation properties of twisted-nematic liquid-crystal display by improved measurement of Jones matrix. Journal of Applied Physics, 2010, 107, 073107.	2.5	14
47	A noninvasive fluorescence imaging-based platform measures 3D anisotropic extracellular diffusion. Nature Communications, 2021, 12, 1913.	12.8	14
48	Ultrafast absorption and photothermal studies of decarboxytrichochrome C in solutionDedicated to Professor Silvia Braslavsky, to mark her great contribution to photochemistry and photobiology particularly in the field of photothermal methods.. Photochemical and Photobiological Sciences, 2003, 2, 821.	2.9	13
49	Mechanistic Studies on the Photochemical Deprotection of 3â€²,5â€²-Dimethoxybenzoin Esters. Photochemistry and Photobiology, 2006, 82, 1258.	2.5	13
50	Myofibrillogenesis in live neonatal cardiomyocytes observed with hybrid two-photon excitation fluorescence-second harmonic generation microscopy. Journal of Biomedical Optics, 2011, 16, 126012.	2.6	13
51	Two-Photon Laser Scanning Stereomicroscopy for Fast Volumetric Imaging. PLoS ONE, 2016, 11, e0168885.	2.5	13
52	Deep learning provides high accuracy in automated chondrocyte viability assessment in articular cartilage using nonlinear optical microscopy. Biomedical Optics Express, 2021, 12, 2759.	2.9	12
53	The prospects for high resolution optical brain imaging: the magnetic resonance perspective. Magnetic Resonance Imaging, 2003, 21, 1225-1233.	1.8	11
54	Fluorescence microendoscopy imaging based on GRIN lenses with one- and two-photon excitation modes. Frontiers of Optoelectronics, 2015, 8, 177-182.	3.7	10

#	Article	IF	Citations
55	Nonlabeling and quantitative assessment of chondrocyte viability in articular cartilage with intrinsic nonlinear optical signatures. Experimental Biology and Medicine, 2020, 245, 348-359.	2.4	10
56	3D myofibril imaging in live cardiomyocytes via hybrid SHG-TPEF microscopy. Proceedings of SPIE, 2011, , .	0.8	9
57	Vibrational phase imaging in wide-field CARS for nonresonant background suppression. Optics Express, 2015, 23, 10756.	3.4	9
58	Increasing fluorescence lifetime for resolution improvement in stimulated emission depletion nanoscopy. Journal of Biophotonics, 2019, 12, e201800315.	2.3	9
59	The Action Spectrum for Generation of the Primary Intermediate Revealed by Ultrafast Absorption Spectroscopy Studies of PheomelaninÂ¶. Photochemistry and Photobiology, 2003, 77, 41.	2.5	9
60	Investigation of Bessel beam propagation in scattering media with scalar diffraction method. Chinese Optics Letters, 2013, 11, 112601.	2.9	9
61	Time-Resolved Spectroscopic Studies of Radiationless Decay Processes in Photoexcited Hemocyanins. Journal of Physical Chemistry B, 2001, 105, 1478-1483.	2.6	8
62	Imaging melanin by two-photon absorption microscopy. , 2006, , .		8
63	Two-color excited-state absorption imaging of melanins. , 2007, , .		8
64	Wave-front curvature compensation of polarization phase-shifting digital holography. Optik, 2012, 123, 1525-1529.	2.9	8
65	Changes in the crystallographic structures of cardiac myosin filaments detected by polarization-dependent second harmonic generation microscopy. Biomedical Optics Express, 2019, 10, 3183.	2.9	8
66	Studies on fluorescent species of spiro-indolinonaphthooxazines and their fluorescence spectra. Research on Chemical Intermediates, 1998, 24, 961-971.	2.7	7
67	Optical Trapping of Double-Ring Radially Polarized Beam with Improved Axial Trapping Efficiency. Chinese Physics Letters, 2010, 27, 108701.	3.3	7
68	Remote-focusing microscopy with long working distance objective lenses. Applied Optics, 2014, 53, 3473.	1.8	7
69	Voltage and Calcium Dual Channel Optical Mapping of Cultured HL-1 Atrial Myocyte Monolayer. Journal of Visualized Experiments, 2015, , .	0.3	6
70	Study of the Expression Transition of Cardiac Myosin Using Polarization-Dependent SHG Microscopy. Biophysical Journal, 2020, 118, 1058-1066.	0.5	6
71	Simulation and optimization of spatial light modulation of twisted-nematic liquid crystal display. Chinese Optics Letters, 2010, 8, 960-963.	2.9	5
72	Reflective point-dif fraction microscopic interferometer with long-term stability (Invited Paper). Chinese Optics Letters, 2011, 9, 120002-120004.	2.9	5

#	Article	IF	Citations
73	Fast frame scanning camera system for light-sheet microscopy. Applied Optics, 2015, 54, 8632.	2.1	5
74	Quantification of Cardiomyocyte Beating Frequency Using Fourier Transform Analysis. Photonics, 2018, 5, 39.	2.0	5
75	Tissue imaging with shaped femtosecond laser pulses. Springer Series in Chemical Physics, 2007, , 807-809.	0.2	5
76	Energy transfer kinetics of phycoerythrocyanins (PECs) from the cyanobacteriumAnabaena variabilis (I). Science in China Series B: Chemistry, 1997, 40, 286-293.	0.8	4
77	Kinetics of charge separation and energy transfer in photosystem II reaction center. Science Bulletin, 1997, 42, 337-340.	1.7	4
78	?-Conjugated soluble palladium poly-ynes: Synthesis and fluorescence properties. Journal of Applied Polymer Science, 1997, 64, 1657-1665.	2.6	4
79	Ultrafast Energy Transfer from Bound Tetra(4-N,N,N,N-trimethylanilinium)porphyrin to Synthetic Dopa and Cysteinyldopa MelaninsÂ¶. Photochemistry and Photobiology, 2007, 77, 1-4.	2.5	4
80	The Action Spectrum for Generation of the Primary Intermediate Revealed by Ultrafast Absorption Spectroscopy Studies of PheomelaninÂ¶. Photochemistry and Photobiology, 2007, 77, 41-45.	2.5	4
81	Improvement of the performance of the twisted-nematic liquid-crystal display as a phase modulator. Applied Optics, 2011, 50, 2588.	2.1	4
82	Polarization-sensitive diffractive optical elements fabricated in BR films with femtosecond laser. Applied Physics B: Lasers and Optics, 2014, 115, 365-369.	2.2	4
83	Aberration correction for stimulated emission depletion microscopy with coherent optical adaptive technique. Proceedings of SPIE, 2016, , .	0.8	4
84	Rapid wide-field imaging through scattering media by digital holographic wavefront correction. Applied Optics, 2019, 58, 2845.	1.8	4
85	Phase contrast microscopy with fringe contrast adjustable by using grating-based phase-shifter. Optics Express, 2012, 20, 16077.	3.4	3
86	Two-photon fluorescence stereomicroscopy with Bessel beams. , 2013, , .		3
87	Ultrafast energy transfer from bound tetra(4-N,N,N,N-trimethylanilinium)porphyrin to synthetic dopa and cysteinyldopa melanins. Photochemistry and Photobiology, 2003, 77, 1-4.	2.5	3
88	Energy transfer kinetics of phycoerythrocyanin trimer from cyanobacteriumAnabaena variabilis (II). Science in China Series C: Life Sciences, 1998, 41, 133-138.	1.3	2
89	Self-phase modulation and two-photon absorption imaging of cells and active neurons. , 2007, , .		2
90	Two-photon absorption and transient photothermal imaging of pigments in tissues. , 2008, , .		2

#	Article	IF	Citations
91	Label free high resolution in vivo optical imaging of microvessels. Proceedings of SPIE, 2008, , .	0.8	2
92	Selective plane illumination microscopy with structured illumination based on spatial light modulators. , 2014, , .		2
93	Two-photon absorption and self-phase modulation measurements with shaped femtosecond laser pulses. , 2005, , .		1
94	Experimental analysis of focal fields in laser scanning fluorescence stereomicroscopy. Proceedings of SPIE, 2014, , .	0.8	1
95	Multiple-Beam Laser Guidance-Based Microscope for Patterning Adult Cardiomyocytes. Microscopy and Microanalysis, 2016, 22, 1030-1031.	0.4	1
96	Dual-channel phase-shifting interferometry for microscopy with second wavelength assistance. Chinese Optics Letters, 2012, 10, 010901-10904.	2.9	1
97	Nondestructive method for chondrocyte viability assessment in articular cartilage tissues with nonlinear optical microscopy. , 2019, , .		1
98	Multiple Beam Laser Guidance for Patterning Irregularly Shaped Cells. Frontiers in Physics, 2020, 8, .	2.1	1
99	Automated chondrocyte viability analysis of articular cartilage based on deep learning segmentation and classification of two-photon microscopic images. , 2022, , .		1
100	Two-photon absorption microscopy of tissue. , 2005, , .		0
101	Two-Photon Absorption Imaging of Hemoglobin. , 2007, , .		0
102	Optical trapping with cylindrical vector beams. , 2011, , .		0
103	Two-photon excited fluorescence microendoscopic imaging using a GRIN lens. Proceedings of SPIE, 2015, , .	0.8	0
104	Scanning stereomicroscopy with two-photon excitation and scanned Bessel beams. , 2015, , .		0
105	Laser scanning stereomicroscopy for fast volumetric imaging with two-photon excitation and scanned Bessel beams. Proceedings of SPIE, 2015, , .	0.8	0
106	Resolving the primary dynamics of bacteriorhodopsin, and Locked analogs in the reactive excited state.. Springer Series in Chemical Physics, 2001, , 683-685.	0.2	0
107	Engineering the on-axis intensity of Bessel beam by a feedback tuning loop. , 2018, , .		0
108	Deep learning cell segmentation in chondrocyte viability assessment using nonlinear optical microscopy. , 2020, , .		0

#	Article	IF	Citations
109	Study of the sarcomeric addition process in a tissue-like cell construct under mechanical overload via TPEF-SHG imaging system. , 2020, , .		0