Mikhail Kandel

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/8198156/publications.pdf

Version: 2024-02-01

63 papers	1,557 citations	304368 22 h-index	344852 36 g-index
72 all docs	72 docs citations	72 times ranked	1711 citing authors

#	Article	IF	Citations
1	Cell Cycle Stage Classification Using Phase Imaging with Computational Specificity. ACS Photonics, 2022, 9, 1264-1273.	3.2	23
2	Circadian Volume Changes in Hippocampal Glia Studied by Label-Free Interferometric Imaging. Cells, 2022, 11, 2073.	1.8	2
3	High-resolution impedance mapping using electrically activated quantitative phase imaging. Light: Science and Applications, 2021, 10, 20.	7.7	10
4	Multiscale Assay of Unlabeled Neurite Dynamics Using Phase Imaging with Computational Specificity. ACS Sensors, 2021, 6, 1864-1874.	4.0	19
5	Computational interference microscopy enabled by deep learning. APL Photonics, 2021, 6, 046103.	3.0	11
6	10.1063/5.0041901.1. , 2021, , .		0
7	Spatial light interference microscopy: principle and applications to biomedicine. Advances in Optics and Photonics, 2021, 13, 353.	12.1	43
8	Monitoring reactivation of latent HIV by label-free gradient light interference microscopy. IScience, 2021, 24, 102940.	1.9	2
9	Regulation of local GTP availability controls RAC1 activity and cell invasion. Nature Communications, 2021, 12, 6091.	5.8	17
10	Synthetic aperture interference light (SAIL) microscopy for high-throughput label-free imaging. Applied Physics Letters, 2021, 119, 233701.	1.5	6
11	Network science characteristics of brain-derived neuronal cultures deciphered from quantitative phase imaging data. Scientific Reports, 2020, 10, 15078.	1.6	26
12	Reproductive outcomes predicted by phase imaging with computational specificity of spermatozoon ultrastructure. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 18302-18309.	3.3	28
13	Wolf phase tomography (WPT) of transparent structures using partially coherent illumination. Light: Science and Applications, 2020, 9, 142.	7.7	30
14	Phase imaging with computational specificity (PICS) for measuring dry mass changes in sub-cellular compartments. Nature Communications, 2020, 11, 6256.	5.8	109
15	Morphometric analysis of sperm used for IVP by three different separation methods with spatial light interference microscopy. Systems Biology in Reproductive Medicine, 2020, 66, 26-36.	1.0	9
16	High-throughput sperm assay using label-free microscopy: morphometric comparison between different sperm structures of boar and stallion spermatozoa. Animal Reproduction Science, 2020, 219, 106509.	0.5	3
17	Matrix Softness-Mediated 3D Zebrafish Hepatocyte Modulates Response to Endocrine Disrupting Chemicals. Environmental Science & Technology, 2020, 54, 13797-13806.	4.6	5
18	Real-time Jones phase microscopy for studying transparent and birefringent specimens. Optics Express, 2020, 28, 34190.	1.7	16

#	Article	IF	Citations
19	Harmonically decoupled gradient light interference microscopy (HD-GLIM). Optics Letters, 2020, 45, 1487.	1.7	11
20	Quantifying myelin content in brain tissue using color Spatial Light Interference Microscopy (cSLIM). PLoS ONE, 2020, 15, e0241084.	1.1	8
21	Effects of substrate patterning on cellular spheroid growth and dynamics measured by gradient light interference microscopy (GLIM). Journal of Biophotonics, 2019, 12, e201900178.	1.1	9
22	Epi-illumination gradient light interference microscopy for imaging opaque structures. Nature Communications, 2019, 10, 4691.	5.8	58
23	Quantitative Histopathology of Stained Tissues using Color Spatial Light Interference Microscopy (cSLIM). Scientific Reports, 2019, 9, 14679.	1.6	30
24	Graphene oxide substrates with N-cadherin stimulates neuronal growth and intracellular transport. Acta Biomaterialia, 2019, 90, 412-423.	4.1	16
25	Engineering geometrical 3-dimensional untethered in vitro neural tissue mimic. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 25932-25940.	3.3	26
26	Bond-selective transient phase imaging via sensing of the infrared photothermal effect. Light: Science and Applications, 2019, 8, 116.	7.7	62
27	3Dâ€Printed Hydrogel Composites for Predictive Temporal (4D) Cellular Organizations and Patterned Biogenic Mineralization. Advanced Healthcare Materials, 2019, 8, e1800788.	3.9	21
28	SLIM microscopy allows for visualization of DNA-containing liposomes designed for sperm-mediated gene transfer in cattle. Molecular Biology Reports, 2019, 46, 695-703.	1.0	11
29	Cell-to-cell influence on growth in large populations. Biomedical Optics Express, 2019, 10, 4664.	1.5	10
30	Magnified Image Spatial Spectrum (MISS) microscopy for nanometer and millisecond scale label-free imaging. Optics Express, 2018, 26, 5423.	1.7	22
31	Real-time halo correction in phase contrast imaging. Biomedical Optics Express, 2018, 9, 623.	1.5	44
32	Label-free quantitative evaluation of breast tissue using Spatial Light Interference Microscopy (SLIM). Scientific Reports, 2018, 8, 6875.	1.6	39
33	Topography and refractometry of sperm cells using spatial light interference microscopy. Journal of Biomedical Optics, 2018, 23, 1.	1.4	11
34	Cell density modulates intracellular mass transport in neural networks. Cytometry Part A: the Journal of the International Society for Analytical Cytology, 2017, 91, 503-509.	1.1	19
35	Label-free tomographic reconstruction of optically thick structures using GLIM (Conference) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 0		
36	Halo-free Phase Contrast Microscopy. Scientific Reports, 2017, 7, 44034.	1.6	34

#	Article	IF	Citations
37	Threeâ€dimensional intracellular transport in neuron bodies and neurites investigated by labelâ€free dispersionâ€relation phase spectroscopy. Cytometry Part A: the Journal of the International Society for Analytical Cytology, 2017, 91, 519-526.	1.1	22
38	Label-Free Imaging of Single Microtubule Dynamics Using Spatial Light Interference Microscopy. ACS Nano, 2017, 11, 647-655.	7.3	42
39	Three-dimensional mesostructures as high-temperature growth templates, electronic cellular scaffolds, and self-propelled microrobots. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, E9455-E9464.	3.3	129
40	Gradient light interference microscopy for 3D imaging of unlabeled specimens. Nature Communications, 2017, 8, 210.	5.8	188
41	3D-Printed pHEMA Materials for Topographical and Biochemical Modulation of Dorsal Root Ganglion Cell Response. ACS Applied Materials & Interfaces, 2017, 9, 30318-30328.	4.0	32
42	Coupled circumferential and axial tension driven by actin and myosin influences in vivo axon diameter. Scientific Reports, 2017, 7, 14188.	1.6	48
43	Quantitative assessment of neural outgrowth using spatial light interference microscopy. Journal of Biomedical Optics, 2017, 22, 066015.	1.4	14
44	Label-free tissue scanner for colorectal cancer screening. Journal of Biomedical Optics, 2017, 22, 066016.	1.4	49
45	Refractive index variance of cells and tissues measured by quantitative phase imaging. Optics Express, 2017, 25, 1573.	1.7	45
46	Halo-free phase contrast microscopy (Conference Presentation). , 2017, , .		0
47	Monitoring in-vitro bovine embryo development during the first days after fertilization (Conference) Tj ETQq1 1 0.784314 rgBT /Overlo		0
48	Label-free, multi-scale imaging of ex-vivo mouse brain using spatial light interference microscopy. Scientific Reports, 2016, 6, 39667.	1.6	15
49	Cellular Microcultures: Programming Mechanical and Physicochemical Properties of 3D Hydrogel Cellular Microcultures via Direct Ink Writing (Adv. Healthcare Mater. 9/2016). Advanced Healthcare Materials, 2016, 5, 990-990.	3.9	4
50	Gradient light interference microscopy (GLIM) for imaging thick specimens (Conference Presentation). , 2016, , .		0
51	Programming Mechanical and Physicochemical Properties of 3D Hydrogel Cellular Microcultures via Direct Ink Writing. Advanced Healthcare Materials, 2016, 5, 1025-1039.	3.9	32
52	Automatic tissue segmentation of breast biopsies imaged by QPI. Proceedings of SPIE, 2016, , .	0.8	3
53	Highly sensitive kinesin-microtubule motility assays using SLIM. Proceedings of SPIE, 2016, , .	0.8	0
54	White-light diffraction phase microscopy at doubled space-bandwidth product. Optics Express, 2016, 24, 29033.	1.7	34

#	Article	IF	Citations
55	C++ software integration for a high-throughput phase imaging platform. Proceedings of SPIE, 2015, , .	0.8	1
56	Active intracellular transport in metastatic cells studied by spatial light interference microscopy. Journal of Biomedical Optics, 2015, 20, 111209.	1.4	15
57	Diagnosis of breast cancer biopsies using quantitative phase imaging. , 2015, , .		1
58	Breast cancer diagnosis using spatial light interference microscopy. Journal of Biomedical Optics, 2015, 20, 111210.	1.4	48
59	Nuclear dynamics in metastatic cells studied by quantitative phase imaging. , 2015, , .		1
60	High throughput imaging of blood smears using white light diffraction phase microscopy. Proceedings of SPIE, 2015, , .	0.8	1
61	Optical Assay of Erythrocyte Function in Banked Blood. Scientific Reports, 2014, 4, 6211.	1.6	39
62	Human Analysts at Superhuman Scales: What Has Friendly Software To Do?. Big Data, 2013, 1, 227-236.	2.1	1
63	Antiresonant guiding photonic crystal fibers for distributed temperature gradient measurements. Applied Physics B: Lasers and Optics, 2011, 105, 329-333.	1.1	1