

Mikhail Kandel

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

55
papers

932
citations

17
h-index

28
g-index

72
ext. papers

1,284
ext. citations

7.2
avg, IF

4.54
L-index

#	Paper	IF	Citations
55	Cell Cycle Stage Classification Using Phase Imaging with Computational Specificity.. <i>ACS Photonics</i> , 2022 , 9, 1264-1273	6.3	3
54	Regulation of local GTP availability controls RAC1 activity and cell invasion. <i>Nature Communications</i> , 2021 , 12, 6091	17.4	3
53	Multiscale Assay of Unlabeled Neurite Dynamics Using Phase Imaging with Computational Specificity. <i>ACS Sensors</i> , 2021 , 6, 1864-1874	9.2	3
52	Computational interference microscopy enabled by deep learning.. <i>APL Photonics</i> , 2021 , 6,	5.2	5
51	Spatial light interference microscopy: principle and applications to biomedicine.. <i>Advances in Optics and Photonics</i> , 2021 , 13, 353-425	16.7	8
50	High-resolution impedance mapping using electrically activated quantitative phase imaging. <i>Light: Science and Applications</i> , 2021 , 10, 20	16.7	4
49	Monitoring reactivation of latent HIV by label-free gradient light interference microscopy. <i>IScience</i> , 2021 , 24, 102940	6.1	
48	Synthetic aperture interference light (SAIL) microscopy for high-throughput label-free imaging.. <i>Applied Physics Letters</i> , 2021 , 119, 233701	3.4	0
47	Morphometric analysis of sperm used for IVP by three different separation methods with spatial light interference microscopy. <i>Systems Biology in Reproductive Medicine</i> , 2020 , 66, 26-36	2.9	7
46	Real-time Jones phase microscopy for studying transparent and birefringent specimens. <i>Optics Express</i> , 2020 , 28, 34190-34200	3.3	8
45	Harmonically decoupled gradient light interference microscopy (HD-GLIM). <i>Optics Letters</i> , 2020 , 45, 1487-1490	5	
44	Quantifying myelin content in brain tissue using color Spatial Light Interference Microscopy (cSLIM). <i>PLoS ONE</i> , 2020 , 15, e0241084	3.7	2
43	High-throughput sperm assay using label-free microscopy: morphometric comparison between different sperm structures of boar and stallion spermatozoa. <i>Animal Reproduction Science</i> , 2020 , 219, 106509	2.1	3
42	Matrix Softness-Mediated 3D Zebrafish Hepatocyte Modulates Response to Endocrine Disrupting Chemicals. <i>Environmental Science & Technology</i> , 2020 , 54, 13797-13806	10.3	3
41	Network science characteristics of brain-derived neuronal cultures deciphered from quantitative phase imaging data. <i>Scientific Reports</i> , 2020 , 10, 15078	4.9	12
40	Reproductive outcomes predicted by phase imaging with computational specificity of spermatozoon ultrastructure. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020 , 117, 18302-18309	11.5	12
39	Wolf phase tomography (WPT) of transparent structures using partially coherent illumination. <i>Light: Science and Applications</i> , 2020 , 9, 142	16.7	16

38	Phase imaging with computational specificity (PICS) for measuring dry mass changes in sub-cellular compartments. <i>Nature Communications</i> , 2020 , 11, 6256	17.4	33
37	Graphene oxide substrates with N-cadherin stimulates neuronal growth and intracellular transport. <i>Acta Biomaterialia</i> , 2019 , 90, 412-423	10.8	7
36	Effects of substrate patterning on cellular spheroid growth and dynamics measured by gradient light interference microscopy (GLIM). <i>Journal of Biophotonics</i> , 2019 , 12, e201900178	3.1	6
35	Epi-illumination gradient light interference microscopy for imaging opaque structures. <i>Nature Communications</i> , 2019 , 10, 4691	17.4	30
34	Quantitative Histopathology of Stained Tissues using Color Spatial Light Interference Microscopy (cSLIM). <i>Scientific Reports</i> , 2019 , 9, 14679	4.9	13
33	Cell-to-cell influence on growth in large populations. <i>Biomedical Optics Express</i> , 2019 , 10, 4664-4675	3.5	4
32	Engineering geometrical 3-dimensional untethered in vitro neural tissue mimic. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019 , 116, 25932-25940	11.5	13
31	Bond-selective transient phase imaging via sensing of the infrared photothermal effect. <i>Light: Science and Applications</i> , 2019 , 8, 116	16.7	32
30	3D-Printed Hydrogel Composites for Predictive Temporal (4D) Cellular Organizations and Patterned Biogenic Mineralization. <i>Advanced Healthcare Materials</i> , 2019 , 8, e1800788	10.1	17
29	SLIM microscopy allows for visualization of DNA-containing liposomes designed for sperm-mediated gene transfer in cattle. <i>Molecular Biology Reports</i> , 2019 , 46, 695-703	2.8	8
28	Magnified Image Spatial Spectrum (MISS) microscopy for nanometer and millisecond scale label-free imaging. <i>Optics Express</i> , 2018 , 26, 5423-5440	3.3	17
27	Real-time halo correction in phase contrast imaging. <i>Biomedical Optics Express</i> , 2018 , 9, 623-635	3.5	28
26	Label-free quantitative evaluation of breast tissue using Spatial Light Interference Microscopy (SLIM). <i>Scientific Reports</i> , 2018 , 8, 6875	4.9	26
25	Topography and refractometry of sperm cells using spatial light interference microscopy. <i>Journal of Biomedical Optics</i> , 2018 , 23, 1-6	3.5	10
24	Cell density modulates intracellular mass transport in neural networks. <i>Cytometry Part A: the Journal of the International Society for Analytical Cytology</i> , 2017 , 91, 503-509	4.6	12
23	Halo-free Phase Contrast Microscopy. <i>Scientific Reports</i> , 2017 , 7, 44034	4.9	26
22	Three-dimensional intracellular transport in neuron bodies and neurites investigated by label-free dispersion-relation phase spectroscopy. <i>Cytometry Part A: the Journal of the International Society for Analytical Cytology</i> , 2017 , 91, 519-526	4.6	17
21	Label-Free Imaging of Single Microtubule Dynamics Using Spatial Light Interference Microscopy. <i>ACS Nano</i> , 2017 , 11, 647-655	16.7	35

20	Three-dimensional mesostructures as high-temperature growth templates, electronic cellular scaffolds, and self-propelled microrobots. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017 , 114, E9455-E9464	11.5	104
19	Gradient light interference microscopy for 3D imaging of unlabeled specimens. <i>Nature Communications</i> , 2017 , 8, 210	17.4	112
18	3D-Printed pHEMA Materials for Topographical and Biochemical Modulation of Dorsal Root Ganglion Cell Response. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 30318-30328	9.5	24
17	Coupled circumferential and axial tension driven by actin and myosin influences in vivo axon diameter. <i>Scientific Reports</i> , 2017 , 7, 14188	4.9	33
16	Quantitative assessment of neural outgrowth using spatial light interference microscopy. <i>Journal of Biomedical Optics</i> , 2017 , 22, 66015	3.5	11
15	Label-free tissue scanner for colorectal cancer screening. <i>Journal of Biomedical Optics</i> , 2017 , 22, 66016	3.5	34
14	Refractive index variance of cells and tissues measured by quantitative phase imaging. <i>Optics Express</i> , 2017 , 25, 1573-1581	3.3	33
13	Programming Mechanical and Physicochemical Properties of 3D Hydrogel Cellular Microcultures via Direct Ink Writing. <i>Advanced Healthcare Materials</i> , 2016 , 5, 1025-39	10.1	29
12	Automatic tissue segmentation of breast biopsies imaged by QPI 2016 ,		2
11	White-light diffraction phase microscopy at doubled space-bandwidth product. <i>Optics Express</i> , 2016 , 24, 29033-29039	3.3	19
10	Label-free, multi-scale imaging of ex-vivo mouse brain using spatial light interference microscopy. <i>Scientific Reports</i> , 2016 , 6, 39667	4.9	11
9	Cellular Microcultures: Programming Mechanical and Physicochemical Properties of 3D Hydrogel Cellular Microcultures via Direct Ink Writing (Adv. Healthcare Mater. 9/2016). <i>Advanced Healthcare Materials</i> , 2016 , 5, 990-990	10.1	4
8	Active intracellular transport in metastatic cells studied by spatial light interference microscopy. <i>Journal of Biomedical Optics</i> , 2015 , 20, 111209	3.5	14
7	Diagnosis of breast cancer biopsies using quantitative phase imaging 2015 ,		1
6	Breast cancer diagnosis using spatial light interference microscopy. <i>Journal of Biomedical Optics</i> , 2015 , 20, 111210	3.5	38
5	C++ software integration for a high-throughput phase imaging platform 2015 ,		1
4	Optical assay of erythrocyte function in banked blood. <i>Scientific Reports</i> , 2014 , 4, 6211	4.9	31
3	Human Analysts at Superhuman Scales: What Has Friendly Software To Do?. <i>Big Data</i> , 2013 , 1, 227-36	3.1	1

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| 2 | Antiresonant guiding photonic crystal fibers for distributed temperature gradient measurements.
<i>Applied Physics B: Lasers and Optics</i> , 2011 , 105, 329-333 | 1.9 | 1 |
| 1 | Real-time halo correction in phase contrast imaging | | 1 |