

Mikhail Kandel

List of Publications by Citations

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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	Gradient light interference microscopy for 3D imaging of unlabeled specimens. <i>Nature Communications</i> , 2017 , 8, 210	17.4	112
54	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
53	Breast cancer diagnosis using spatial light interference microscopy. <i>Journal of Biomedical Optics</i> , 2015 , 20, 111210	3.5	38
52	Label-Free Imaging of Single Microtubule Dynamics Using Spatial Light Interference Microscopy. <i>ACS Nano</i> , 2017 , 11, 647-655	16.7	35
51	Label-free tissue scanner for colorectal cancer screening. <i>Journal of Biomedical Optics</i> , 2017 , 22, 66016	3.5	34
50	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
49	Refractive index variance of cells and tissues measured by quantitative phase imaging. <i>Optics Express</i> , 2017 , 25, 1573-1581	3.3	33
48	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
47	Bond-selective transient phase imaging via sensing of the infrared photothermal effect. <i>Light: Science and Applications</i> , 2019 , 8, 116	16.7	32
46	Optical assay of erythrocyte function in banked blood. <i>Scientific Reports</i> , 2014 , 4, 6211	4.9	31
45	Epi-illumination gradient light interference microscopy for imaging opaque structures. <i>Nature Communications</i> , 2019 , 10, 4691	17.4	30
44	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
43	Real-time halo correction in phase contrast imaging. <i>Biomedical Optics Express</i> , 2018 , 9, 623-635	3.5	28
42	Halo-free Phase Contrast Microscopy. <i>Scientific Reports</i> , 2017 , 7, 44034	4.9	26
41	Label-free quantitative evaluation of breast tissue using Spatial Light Interference Microscopy (SLIM). <i>Scientific Reports</i> , 2018 , 8, 6875	4.9	26
40	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
39	White-light diffraction phase microscopy at doubled space-bandwidth product. <i>Optics Express</i> , 2016 , 24, 29033-29039	3.3	19

38	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
37	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
36	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
35	Wolf phase tomography (WPT) of transparent structures using partially coherent illumination. <i>Light: Science and Applications</i> , 2020 , 9, 142	16.7	16
34	Active intracellular transport in metastatic cells studied by spatial light interference microscopy. <i>Journal of Biomedical Optics</i> , 2015 , 20, 111209	3.5	14
33	Quantitative Histopathology of Stained Tissues using Color Spatial Light Interference Microscopy (cSLIM). <i>Scientific Reports</i> , 2019 , 9, 14679	4.9	13
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	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
30	Network science characteristics of brain-derived neuronal cultures deciphered from quantitative phase imaging data. <i>Scientific Reports</i> , 2020 , 10, 15078	4.9	12
29	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
28	Quantitative assessment of neural outgrowth using spatial light interference microscopy. <i>Journal of Biomedical Optics</i> , 2017 , 22, 66015	3.5	11
27	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
26	Topography and refractometry of sperm cells using spatial light interference microscopy. <i>Journal of Biomedical Optics</i> , 2018 , 23, 1-6	3.5	10
25	Real-time Jones phase microscopy for studying transparent and birefringent specimens. <i>Optics Express</i> , 2020 , 28, 34190-34200	3.3	8
24	Spatial light interference microscopy: principle and applications to biomedicine.. <i>Advances in Optics and Photonics</i> , 2021 , 13, 353-425	16.7	8
23	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
22	Graphene oxide substrates with N-cadherin stimulates neuronal growth and intracellular transport. <i>Acta Biomaterialia</i> , 2019 , 90, 412-423	10.8	7
21	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

20	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
19	Harmonically decoupled gradient light interference microscopy (HD-GLIM). <i>Optics Letters</i> , 2020 , 45, 1487-1490	5	5
18	Computational interference microscopy enabled by deep learning.. <i>APL Photonics</i> , 2021 , 6,	5.2	5
17	Cell-to-cell influence on growth in large populations. <i>Biomedical Optics Express</i> , 2019 , 10, 4664-4675	3.5	4
16	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
15	High-resolution impedance mapping using electrically activated quantitative phase imaging. <i>Light: Science and Applications</i> , 2021 , 10, 20	16.7	4
14	Regulation of local GTP availability controls RAC1 activity and cell invasion. <i>Nature Communications</i> , 2021 , 12, 6091	17.4	3
13	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
12	Matrix Softness-Mediated 3D Zebrafish Hepatocyte Modulates Response to Endocrine Disrupting Chemicals. <i>Environmental Science & Technology</i> , 2020 , 54, 13797-13806	10.3	3
11	Multiscale Assay of Unlabeled Neurite Dynamics Using Phase Imaging with Computational Specificity. <i>ACS Sensors</i> , 2021 , 6, 1864-1874	9.2	3
10	Cell Cycle Stage Classification Using Phase Imaging with Computational Specificity.. <i>ACS Photonics</i> , 2022 , 9, 1264-1273	6.3	3
9	Automatic tissue segmentation of breast biopsies imaged by QPI 2016 ,		2
8	Quantifying myelin content in brain tissue using color Spatial Light Interference Microscopy (cSLIM). <i>PLoS ONE</i> , 2020 , 15, e0241084	3.7	2
7	Diagnosis of breast cancer biopsies using quantitative phase imaging 2015 ,		1
6	Human Analysts at Superhuman Scales: What Has Friendly Software To Do?. <i>Big Data</i> , 2013 , 1, 227-36	3.1	1
5	C++ software integration for a high-throughput phase imaging platform 2015 ,		1
4	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
3	Real-time halo correction in phase contrast imaging		1

- 2 Synthetic aperture interference light (SAIL) microscopy for high-throughput label-free imaging..
Applied Physics Letters, **2021**, 119, 233701 3.4 ○
- 1 Monitoring reactivation of latent HIV by label-free gradient light interference microscopy. *IScience*,
2021, 24, 102940 6.1