## Mikhail Kandel

## List of Publications by Year in descending order

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Three-dimensional mesostructures as high-temperature growth templates, electronic cellular
2 scaffolds, and self-propelled microrobots. Proceedings of the National Academy of Sciences of the
3.3United States of America, 2017, 114, E9455-E9464.

$3 \quad$| Phase imaging with computational specificity (PICS) for measuring dry mass changes in sub-cellular |
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| compartments. Nature Communications, 2020, 11, 6256. |

4 Bond-selective transient phase imaging via sensing of the infrared photothermal effect. Light: Science
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and Applications, 2019, 8, 116.

Epi-illumination gradient light interference microscopy for imaging opaque structures. Nature
$5.8 \quad 58$
$5 \quad \begin{aligned} & \text { Epi-illumination gradient light inter } \\ & \text { Communications, 2019, 10, } 4691 .\end{aligned}$
$6 \quad$ Label-free tissue scanner for colorectal cancer screening. Journal of Biomedical Optics, 2017, 22,
066016.
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7 Breast cancer diagnosis using spatial light interference microscopy. Journal of Biomedical Optics,
2015, 20, 111210.
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8 Coupled circumferential and axial tension driven by actin and myosin influences in vivo axon diameter. Scientific Reports, 2017, 7, 14188.
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Refractive index variance of cells and tissues measured by quantitative phase imaging. Optics Express,
Refractive index
$2017,25,1573$.

10 Real-time halo correction in phase contrast imaging. Biomedical Optics Express, 2018, 9, 623.
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11 Spatial light interference microscopy: principle and applications to biomedicine. Advances in Optics
and Photonics, 2021, 13, 353. 12.1 ..... 43
7.3 ..... 4212 Label-Free Imaging of Single Microtubule Dynamics Using Spatial Light Interference Microscopy. ACSNano, 2017, 11, 647-655.
1.6 ..... 3913 Optical Assay of Erythrocyte Function in Banked Blood. Scientific Reports, 2014, 4, 6211.
Label-free quantitative evaluation of breast tissue using Spatial Light Interference Microscopy (SLIM).1.639Scientific Reports, 2018, 8, 6875.
15 Halo-free Phase Contrast Microscopy. Scientific Reports, 2017, 7, 44034. 1.6 ..... 34
$19 \quad$ Quantitative Histopathology of Stained Tissues using Color Spatial Light Interference Microscopy

Wolf phase tomography (WPT) of transparent structures using partially coherent illumination. Light:

Science and Applications, 2020, 9, 142.
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Reproductive outcomes predicted by phase imaging with computational specificity of spermatozoon
21 ultrastructure. Proceedings of the National Academy of Sciences of the United States of America,
3.3 2020, 117, 18302-18309.
Network science characteristics of brain-derived neuronal cultures deciphered from quantitative
phase imaging data. Scientific Reports, 2020, 10, 15078.1.6
Cell Cycle Stage Classification Using Phase Imaging with Computational Specificity. ACS Photonics, 2022, 9, 1264-1273.
25 Threeấđimensional intracellular transport in neuron bodies and neurites investigated by labelâ€free dispersionấrelation phase spectroscopy. Cytometry Part A: the Journal of the International Society for ..... 1.1 ..... 22 Analytical Cytology, 2017, 91, 519-526.
26 Magnified Image Spatial Spectrum (MISS) microscopy for nanometer and millisecond scale label-free imaging. Optics Express, 2018, 26, 5423.
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27 3Dâ€Printed Hydrogel Composites for Predictive Temporal (4D) Cellular Organizations and Patterned Biogenic Mineralization. Advanced Healthcare Materials, 2019, 8, e1800788.3.921
28 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.
29 Multiscale Assay of Unlabeled Neurite Dynamics Using Phase Imaging with Computational Specificity.
ACS Sensors, 2021, 6, 1864-1874.
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30 Regulation of local GTP availability controls RAC1 activity and cell invasion. Nature Communications,5.8172021, 12, 6091.
$4.1 \quad 16$Graphene oxide substrates with N -cadherin stimulates neuronal growth and intracellular transport.Acta Biomaterialia, 2019, 90, 412-423.Real-time Jones phase microscopy for studying transparent and birefringent specimens. Optics Express,Journal of Biomedical Optics, 2015, 20, 111209.
Label-free, multi-scale imaging of ex-vivo mouse brain using spatial light interference microscopy.

38 Topography and refractometry of sperm cells using spatial light interference microscopy. Journal of
1.4 Biomedical Optics, 2018, 23, 1.

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Harmonically decoupled gradient light interference microscopy (HD-GLIM). Optics Letters, 2020, 45,
1487 ,
$40 \quad$ High-resolution impedance mapping using electrically activated quantitative phase imaging. Light:

Effects of substrate patterning on cellular spheroid growth and dynamics measured by gradient light interference microscopy (GLIM). Journal of Biophotonics, 2019, 12, e201900178.

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.
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44 Quantifying myelin content in brain tissue using color Spatial Light Interference Microscopy (cSLIM).
PLoS ONE, 2020, 15, e0241084.

| 45 | Synthetic aperture interference light (SAIL) microscopy for high-throughput label-free imaging. Applied Physics Letters, 2021, 119, 233701. | 1.5 | 6 |
| :---: | :---: | :---: | :---: |
| 46 | Matrix Softness-Mediated 3D Zebrafish Hepatocyte Modulates Response to Endocrine Disrupting Chemicals. Environmental Science \& Technology, 2020, 54, 13797-13806. | 4.6 | 5 |
| 47 | 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 |
| 48 | Automatic tissue segmentation of breast biopsies imaged by QPI. Proceedings of SPIE, 2016, , . | 0.8 | 3 |
| 49 | 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 |

50 Monitoring reactivation of latent HIV by label-free gradient light interference microscopy. IScience, 2021, 24, 102940.
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Circadian Volume Changes in Hippocampal Clia Studied by Label-Free Interferometric Imaging. Cells,
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Antiresonant guiding photonic crystal fibers for distributed temperature gradient measurements.
Applied Physics B: Lasers and Optics, 2011, 105, 329-333.
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53 Human Analysts at Superhuman Scales: What Has Friendly Software To Do?. Big Data, 2013, 1, 227 -236.
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60 Highly sensitive kinesin-microtubule motility assays using SLIM. Proceedings of SPIE, 2016, , .

