

Alon Greenbaum

List of Publications by Year in descending order

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Version: 2024-02-01

34
papers

4,120
citations

279798

23
h-index

395702

33
g-index

36
all docs

36
docs citations

36
times ranked

5553
citing authors

#	ARTICLE	IF	CITATIONS
1	Illumination angle correction during image acquisition in light-sheet fluorescence microscopy using deep learning. <i>Biomedical Optics Express</i> , 2022, 13, 888.	2.9	9
2	Quantitative analysis of illumination and detection corrections in adaptive light sheet fluorescence microscopy. <i>Biomedical Optics Express</i> , 2022, 13, 2960.	2.9	7
3	Ontogeny of cellular organization and LGR5 expression in porcine cochlea revealed using tissue clearing and 3D imaging. <i>IScience</i> , 2022, 25, 104695.	4.1	7
4	Deep learning-based autofocus method enhances image quality in light-sheet fluorescence microscopy. <i>Biomedical Optics Express</i> , 2021, 12, 5214.	2.9	32
5	Light-guided sectioning for precise in situ localization and tissue interface analysis for brain-implanted optical fibers and GRIN lenses. <i>Cell Reports</i> , 2021, 36, 109744.	6.4	9
6	Detection and classification of neurons and glial cells in the MADM mouse brain using RetinaNet. <i>PLoS ONE</i> , 2021, 16, e0257426.	2.5	5
7	Enhancement of Bone Regeneration Through the Converse Piezoelectric Effect, A Novel Approach for Applying Mechanical Stimulation. <i>Bioelectricity</i> , 2021, 3, 255-271.	1.1	24
8	Phenotyping Intact Mouse Bones Using Bone CLARITY. <i>Methods in Molecular Biology</i> , 2021, 2230, 217-230.	0.9	0
9	Multiplexed Cre-dependent selection yields systemic AAVs for targeting distinct brain cell types. <i>Nature Methods</i> , 2020, 17, 541-550.	19.0	121
10	Three-dimensional imaging of intact porcine cochlea using tissue clearing and custom-built light-sheet microscopy. <i>Biomedical Optics Express</i> , 2020, 11, 6181.	2.9	20
11	Identification of peripheral neural circuits that regulate heart rate using optogenetic and viral vector strategies. <i>Nature Communications</i> , 2019, 10, 1944.	12.8	140
12	Bone CLARITY: Clearing, imaging, and computational analysis of osteoprogenitors within intact bone marrow. <i>Science Translational Medicine</i> , 2017, 9, .	12.4	160
13	Dorsal Raphe Dopamine Neurons Modulate Arousal and Promote Wakefulness by Salient Stimuli. <i>Neuron</i> , 2017, 94, 1205-1219.e8.	8.1	201
14	Q&A: How can advances in tissue clearing and optogenetics contribute to our understanding of normal and diseased biology?. <i>BMC Biology</i> , 2017, 15, 87.	3.8	8
15	Engineered AAVs for efficient noninvasive gene delivery to the central and peripheral nervous systems. <i>Nature Neuroscience</i> , 2017, 20, 1172-1179.	14.8	927
16	Single-molecule RNA detection at depth via hybridization chain reaction and tissue hydrogel embedding and clearing. <i>Development (Cambridge)</i> , 2016, 143, 2862-7.	2.5	174
17	Rapid, portable and cost-effective yeast cell viability and concentration analysis using lensfree on-chip microscopy and machine learning. <i>Lab on A Chip</i> , 2016, 16, 4350-4358.	6.0	59
18	Synthetic aperture-based on-chip microscopy. <i>Light: Science and Applications</i> , 2015, 4, e261-e261.	16.6	204

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19	High-Throughput and Label-Free Single Nanoparticle Sizing Based on Time-Resolved On-Chip Microscopy. ACS Nano, 2015, 9, 3265-3273.	14.6	73
20	Wide-field pathology imaging using on-chip microscopy. Virchows Archiv Fur Pathologische Anatomie Und Physiologie Und Fur Klinische Medizin, 2015, 467, 3-7.	2.8	23
21	Whole-body tissue stabilization and selective extractions via tissue-hydrogel hybrids for high-resolution intact circuit mapping and phenotyping. Nature Protocols, 2015, 10, 1860-1896.	12.0	234
22	High throughput on-chip analysis of high-energy charged particle tracks using lensfree imaging. Applied Physics Letters, 2015, 106, 151107.	3.3	7
23	Wide-field computational imaging of pathology slides using lens-free on-chip microscopy. Science Translational Medicine, 2014, 6, 267ra175.	12.4	235
24	Optical imaging techniques for point-of-care diagnostics. Lab on A Chip, 2013, 13, 51-67.	6.0	320
25	Toward giga-pixel nanoscopy on a chip: a computational wide-field look at the nano-scale without the use of lenses. Lab on A Chip, 2013, 13, 2028.	6.0	52
26	Wide-field computational color imaging using pixel super-resolved on-chip microscopy. Optics Express, 2013, 21, 12469.	3.4	63
27	Field-Portable Pixel Super-Resolution Colour Microscope. PLoS ONE, 2013, 8, e76475.	2.5	81
28	Lens-free computational imaging of capillary morphogenesis within three-dimensional substrates. Journal of Biomedical Optics, 2012, 17, 126018.	2.6	17
29	Maskless imaging of dense samples using pixel super-resolution based multi-height lensfree on-chip microscopy. Optics Express, 2012, 20, 3129.	3.4	160
30	Imaging without lenses: achievements and remaining challenges of wide-field on-chip microscopy. Nature Methods, 2012, 9, 889-895.	19.0	461
31	Field-portable wide-field microscopy of dense samples using multi-height pixel super-resolution based lensfree imaging. Lab on A Chip, 2012, 12, 1242.	6.0	117
32	Combined reflection and transmission microscope for telemedicine applications in field settings. Lab on A Chip, 2011, 11, 2738.	6.0	28
33	One-to-one neuron-electrode interfacing. Journal of Neuroscience Methods, 2009, 182, 219-224.	2.5	27
34	The Regulative Role of Neurite Mechanical Tension in Network Development. Biophysical Journal, 2009, 96, 1661-1670.	0.5	114