

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	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
2	Imaging without lenses: achievements and remaining challenges of wide-field on-chip microscopy. <i>Nature Methods</i> , 2012, 9, 889-895.	19.0	461
3	Optical imaging techniques for point-of-care diagnostics. <i>Lab on A Chip</i> , 2013, 13, 51-67.	6.0	320
4	Wide-field computational imaging of pathology slides using lens-free on-chip microscopy. <i>Science Translational Medicine</i> , 2014, 6, 267ra175.	12.4	235
5	Whole-body tissue stabilization and selective extractions via tissue-hydrogel hybrids for high-resolution intact circuit mapping and phenotyping. <i>Nature Protocols</i> , 2015, 10, 1860-1896.	12.0	234
6	Synthetic aperture-based on-chip microscopy. <i>Light: Science and Applications</i> , 2015, 4, e261-e261.	16.6	204
7	Dorsal Raphe Dopamine Neurons Modulate Arousal and Promote Wakefulness by Salient Stimuli. <i>Neuron</i> , 2017, 94, 1205-1219.e8.	8.1	201
8	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
9	Maskless imaging of dense samples using pixel super-resolution based multi-height lensfree on-chip microscopy. <i>Optics Express</i> , 2012, 20, 3129.	3.4	160
10	Bone CLARITY: Clearing, imaging, and computational analysis of osteoprogenitors within intact bone marrow. <i>Science Translational Medicine</i> , 2017, 9, .	12.4	160
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	Multiplexed Cre-dependent selection yields systemic AAVs for targeting distinct brain cell types. <i>Nature Methods</i> , 2020, 17, 541-550.	19.0	121
13	Field-portable wide-field microscopy of dense samples using multi-height pixel super-resolution based lensfree imaging. <i>Lab on A Chip</i> , 2012, 12, 1242.	6.0	117
14	The Regulative Role of Neurite Mechanical Tension in Network Development. <i>Biophysical Journal</i> , 2009, 96, 1661-1670.	0.5	114
15	Field-Portable Pixel Super-Resolution Colour Microscope. <i>PLoS ONE</i> , 2013, 8, e76475.	2.5	81
16	High-Throughput and Label-Free Single Nanoparticle Sizing Based on Time-Resolved On-Chip Microscopy. <i>ACS Nano</i> , 2015, 9, 3265-3273.	14.6	73
17	Wide-field computational color imaging using pixel super-resolved on-chip microscopy. <i>Optics Express</i> , 2013, 21, 12469.	3.4	63
18	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

#	ARTICLE	IF	CITATIONS
19	Toward giga-pixel nanoscopy on a chip: a computational wide-field look at the nano-scale without the use of lenses. <i>Lab on A Chip</i> , 2013, 13, 2028.	6.0	52
20	Deep learning-based autofocus method enhances image quality in light-sheet fluorescence microscopy. <i>Biomedical Optics Express</i> , 2021, 12, 5214.	2.9	32
21	Combined reflection and transmission microscope for telemedicine applications in field settings. <i>Lab on A Chip</i> , 2011, 11, 2738.	6.0	28
22	One-to-one neuron-electrode interfacing. <i>Journal of Neuroscience Methods</i> , 2009, 182, 219-224.	2.5	27
23	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
24	Wide-field pathology imaging using on-chip microscopy. <i>Virchows Archiv Fur Pathologische Anatomie Und Physiologie Und Fur Klinische Medizin</i> , 2015, 467, 3-7.	2.8	23
25	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
26	Lens-free computational imaging of capillary morphogenesis within three-dimensional substrates. <i>Journal of Biomedical Optics</i> , 2012, 17, 126018.	2.6	17
27	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
28	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
29	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
30	High throughput on-chip analysis of high-energy charged particle tracks using lensfree imaging. <i>Applied Physics Letters</i> , 2015, 106, 151107.	3.3	7
31	Quantitative analysis of illumination and detection corrections in adaptive light sheet fluorescence microscopy. <i>Biomedical Optics Express</i> , 2022, 13, 2960.	2.9	7
32	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
33	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
34	Phenotyping Intact Mouse Bones Using Bone CLARITY. <i>Methods in Molecular Biology</i> , 2021, 2230, 217-230.	0.9	0