

# Andrew Cohen

## List of Publications by Year in descending order

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Version: 2024-02-01

39  
papers

2,846  
citations

394286

19  
h-index

414303

32  
g-index

45  
all docs

45  
docs citations

45  
times ranked

4850  
citing authors

#	ARTICLE	IF	CITATIONS
1	Applying systems-level spectral imaging and analysis to reveal the organelle interactome. <i>Nature</i> , 2017, 546, 162-167.	13.7	828
2	Objective comparison of particle tracking methods. <i>Nature Methods</i> , 2014, 11, 281-289.	9.0	805
3	Macrophages of diverse phenotypes drive vascularization of engineered tissues. <i>Science Advances</i> , 2020, 6, eaay6391.	4.7	152
4	A neuronal network of mitochondrial dynamics regulates metastasis. <i>Nature Communications</i> , 2016, 7, 13730.	5.8	112
5	Computational prediction of neural progenitor cell fates. <i>Nature Methods</i> , 2010, 7, 213-218.	9.0	108
6	Generation of Rab4-based transgenic lines for <i>in vivo</i> studies of endosome biology in zebrafish. <i>Developmental Dynamics</i> , 2011, 240, 2452-2465.	0.8	97
7	Collective ERK/Akt activity waves orchestrate epithelial homeostasis by driving apoptosis-induced survival. <i>Developmental Cell</i> , 2021, 56, 1712-1726.e6.	3.1	91
8	Automated Three-Dimensional Tracing of Neurons in Confocal and Brightfield Images. <i>Microscopy and Microanalysis</i> , 2003, 9, 296-310.	0.2	67
9	Vertebrate neural stem cell segmentation, tracking and lineaging with validation and editing. <i>Nature Protocols</i> , 2011, 6, 1942-1952.	5.5	58
10	Syntaphilin Ubiquitination Regulates Mitochondrial Dynamics and Tumor Cell Movements. <i>Cancer Research</i> , 2018, 78, 4215-4228.	0.4	47
11	LEVER: software tools for segmentation, tracking and lineaging of proliferating cells. <i>Bioinformatics</i> , 2016, 32, 3530-3531.	1.8	46
12	Visualization and correction of automated segmentation, tracking and lineaging from 5-D stem cell image sequences. <i>BMC Bioinformatics</i> , 2014, 15, 328.	1.2	40
13	Imbalanced functional link between valuation networks in abstinent heroin-dependent subjects. <i>Molecular Psychiatry</i> , 2014, 19, 10-12.	4.1	40
14	Non-monotonic Changes in Progenitor Cell Behavior and Gene Expression during Aging of the Adult V-SVZ Neural Stem Cell Niche. <i>Stem Cell Reports</i> , 2017, 9, 1931-1947.	2.3	39
15	Automatic Summarization of Changes in Biological Image Sequences Using Algorithmic Information Theory. <i>IEEE Transactions on Pattern Analysis and Machine Intelligence</i> , 2009, 31, 1386-1403.	9.7	38
16	Axonal transport analysis using Multitemporal Association Tracking. <i>International Journal of Computational Biology and Drug Design</i> , 2012, 5, 35.	0.3	38
17	RNase P protein subunit Rpp29 represses histone H3.3 nucleosome deposition. <i>Molecular Biology of the Cell</i> , 2016, 27, 1154-1169.	0.9	34
18	Normalized Compression Distance of Multisets with Applications. <i>IEEE Transactions on Pattern Analysis and Machine Intelligence</i> , 2015, 37, 1602-1614.	9.7	28

#	ARTICLE	IF	CITATIONS
19	Computational Image Analysis Reveals Intrinsic Multigenerational Differences between Anterior and Posterior Cerebral Cortex Neural Progenitor Cells. <i>Stem Cell Reports</i> , 2015, 5, 609-620.	2.3	27
20	Separating Touching Cells Using Pixel Replicated Elliptical Shape Models. <i>IEEE Transactions on Medical Imaging</i> , 2019, 38, 883-893.	5.4	21
21	Extracting meaning from biological imaging data. <i>Molecular Biology of the Cell</i> , 2014, 25, 3470-3473.	0.9	19
22	Contact guidance is cell cycle-dependent. <i>APL Bioengineering</i> , 2018, 2, .	3.3	15
23	Hydra image processor: 5-D GPU image analysis library with MATLAB and python wrappers. <i>Bioinformatics</i> , 2019, 35, 5393-5395.	1.8	13
24	Calcium-vesicles perform active diffusion in the sea urchin embryo during larval biomineralization. <i>PLoS Computational Biology</i> , 2021, 17, e1008780.	1.5	11
25	Automated Measurement of Cobblestone Morphology for Characterizing Stem Cell Derived Retinal Pigment Epithelial Cell Cultures. <i>Journal of Ocular Pharmacology and Therapeutics</i> , 2016, 32, 331-339.	0.6	10
26	3D Image Analysis of the Complete Ventricular-Subventricular Zone Stem Cell Niche Reveals Significant Vasculature Changes and Progenitor Deficits in Males Versus Females with Aging. <i>Stem Cell Reports</i> , 2021, 16, 836-850.	2.3	7
27	Segmentation of occluded hematopoietic stem cells from tracking. , 2014, 2014, 5510-3.		6
28	A Genome-wide RNAi Screen for Microtubule Bundle Formation and Lysosome Motility Regulation in <i>Drosophila</i> S2 Cells. <i>Cell Reports</i> , 2016, 14, 611-620.	2.9	6
29	Automatic summarization of changes in image sequences using algorithmic information theory. , 2008, , .		5
30	Human Serum Enhances Biomimicry of Engineered Tissue Models of Bone and Cancer. <i>Frontiers in Bioengineering and Biotechnology</i> , 2021, 9, 658472.	2.0	5
31	Measuring Process Dynamics and Nuclear Migration for Clones of Neural Progenitor Cells. <i>Lecture Notes in Computer Science</i> , 2016, 9913, 291-305.	1.0	3
32	Spiral wave classification using normalized compression distance: Towards atrial tissue spatiotemporal electrophysiological behavior characterization. , 2015, 2015, 4503-6.		2
33	Spiral waves characterization: Implications for an automated cardiodynamic tissue characterization. <i>Computer Methods and Programs in Biomedicine</i> , 2018, 161, 15-24.	2.6	1
34	A Methodology to Investigate the Relationship Between Cancer Cells cell-cycle Phase and Their Migratory Behaviors. , 2018, , .		1
35	Web Similarity in Sets of Search Terms Using Database Queries. <i>SN Computer Science</i> , 2020, 1, 1.	2.3	1
36	LEVERSC: Cross-Platform Scriptable Multichannel 3-D Visualization for Fluorescence Microscopy Images. <i>Frontiers in Bioinformatics</i> , 2022, 2, .	1.0	1

#	ARTICLE	IF	CITATIONS
37	Automated Methods for Profiling the Axonal Transport of Secretory BDNF Granules in Live Cultured Neurons from Time-lapse Microscopy Data. <i>Microscopy and Microanalysis</i> , 2009, 15, 832-833.	0.2	0
38	Multisensory interface for 5D stem cell image volumes. , 2014, 2014, 1178-81.		0
39	Measuring and Visualizing Clonal Development in Live Cell and Tissue Microscopy. <i>Microscopy and Microanalysis</i> , 2016, 22, 540-541.	0.2	0