

# Martin Weigert

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/6118951/publications.pdf>

Version: 2024-02-01

17  
papers

4,695  
citations

777949

13  
h-index

1113639

15  
g-index

27  
all docs

27  
docs citations

27  
times ranked

7258  
citing authors

#	ARTICLE	IF	CITATIONS
1	Deep Learning Enables Individual Xenograft Cell Classification in Histological Images by Analysis of Contextual Features. <i>Journal of Mammary Gland Biology and Neoplasia</i> , 2021, 26, 101-112.	1.0	5
2	Deep learning-enhanced light-field imaging with continuous validation. <i>Nature Methods</i> , 2021, 18, 557-563.	9.0	75
3	3D FIB-SEM reconstruction of microtubule-organelle interaction in whole primary mouse $\hat{1}^2$ cells. <i>Journal of Cell Biology</i> , 2021, 220, .	2.3	64
4	EASI-FISH for thick tissue defines lateral hypothalamus spatio-molecular organization. <i>Cell</i> , 2021, 184, 6361-6377.e24.	13.5	72
5	CLIJ: GPU-accelerated image processing for everyone. <i>Nature Methods</i> , 2020, 17, 5-6.	9.0	122
6	A convolutional neural network segments yeast microscopy images with high accuracy. <i>Nature Communications</i> , 2020, 11, 5723.	5.8	71
7	Star-convex Polyhedra for 3D Object Detection and Segmentation in Microscopy. , 2020, , .		232
8	Removing Structured Noise with Self-Supervised Blind-Spot Networks. , 2020, , .		32
9	Practical sensorless aberration estimation for 3D microscopy with deep learning. <i>Optics Express</i> , 2020, 28, 29044.	1.7	33
10	Rod nuclear architecture determines contrast transmission of the retina and behavioral sensitivity in mice. <i>ELife</i> , 2019, 8, .	2.8	16
11	Content-aware image restoration: pushing the limits of fluorescence microscopy. <i>Nature Methods</i> , 2018, 15, 1090-1097.	9.0	758
12	Differential lateral and basal tension drive folding of <i>Drosophila</i> wing discs through two distinct mechanisms. <i>Nature Communications</i> , 2018, 9, 4620.	5.8	103
13	Cell Detection with Star-Convex Polygons. <i>Lecture Notes in Computer Science</i> , 2018, , 265-273.	1.0	644
14	Biobeam- Multiplexed wave-optical simulations of light-sheet microscopy. <i>PLoS Computational Biology</i> , 2018, 14, e1006079.	1.5	26
15	Isotropic Reconstruction of 3D Fluorescence Microscopy Images Using Convolutional Neural Networks. <i>Lecture Notes in Computer Science</i> , 2017, , 126-134.	1.0	49
16	ClearVolume: open-source live 3D visualization for light-sheet microscopy. <i>Nature Methods</i> , 2015, 12, 480-481.	9.0	141
17	A Liquid-to-Solid Phase Transition of the ALS Protein FUS Accelerated by Disease Mutation. <i>Cell</i> , 2015, 162, 1066-1077.	13.5	2,182