

Olaf Ronneberger

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

40
papers

19,460
citations

24
h-index

46
g-index

46
ext. papers

34,281
ext. citations

12.9
avg, IF

7.47
L-index

#	Paper	IF	Citations
40	Microridge-like structures anchor motile cilia.. <i>Nature Communications</i> , 2022 , 13, 2056	17.4	1
39	Deep learning is widely applicable to phenotyping embryonic development and disease. <i>Development (Cambridge)</i> , 2021 , 148,	6.6	2
38	Applying and improving AlphaFold at CASP14. <i>Proteins: Structure, Function and Bioinformatics</i> , 2021 , 89, 1711-1721	4.2	41
37	Highly accurate protein structure prediction with AlphaFold. <i>Nature</i> , 2021 , 596, 583-589	50.4	2381
36	Highly accurate protein structure prediction for the human proteome. <i>Nature</i> , 2021 , 596, 590-596	50.4	399
35	Clinically Applicable Segmentation of Head and Neck Anatomy for Radiotherapy: Deep Learning Algorithm Development and Validation Study. <i>Journal of Medical Internet Research</i> , 2021 , 23, e26151	7.6	24
34	U-Net: deep learning for cell counting, detection, and morphometry. <i>Nature Methods</i> , 2019 , 16, 67-70	21.6	636
33	Data-Driven Modeling of Intracellular Auxin Fluxes Indicates a Dominant Role of the ER in Controlling Nuclear Auxin Uptake. <i>Cell Reports</i> , 2018 , 22, 3044-3057	10.6	20
32	Clinically applicable deep learning for diagnosis and referral in retinal disease. <i>Nature Medicine</i> , 2018 , 24, 1342-1350	50.5	938
31	A new fate mapping system reveals context-dependent random or clonal expansion of microglia. <i>Nature Neuroscience</i> , 2017 , 20, 793-803	25.5	316
30	An objective comparison of cell-tracking algorithms. <i>Nature Methods</i> , 2017 , 14, 1141-1152	21.6	242
29	A 3D digital atlas of the <i>Nicotiana tabacum</i> root tip and its use to investigate changes in the root apical meristem induced by the <i>Agrobacterium</i> 6b oncogene. <i>Plant Journal</i> , 2017 , 92, 31-42	6.9	14
28	Gland segmentation in colon histology images: The glas challenge contest. <i>Medical Image Analysis</i> , 2017 , 35, 489-502	15.4	263
27	Spatiotemporal Deformable Prototypes for Motion Anomaly Detection. <i>International Journal of Computer Vision</i> , 2017 , 122, 502-523	10.6	3
26	3D U-Net: Learning Dense Volumetric Segmentation from Sparse Annotation. <i>Lecture Notes in Computer Science</i> , 2016 , 424-432	0.9	1247
25	Automated analysis of retinal imaging using machine learning techniques for computer vision. <i>F1000Research</i> , 2016 , 5, 1573	3.6	27
24	B cell antigen receptors of the IgM and IgD classes are clustered in different protein islands that are altered during B cell activation. <i>Science Signaling</i> , 2015 , 8, ra93	8.8	71

23	Spontaneous and electric field-controlled front-rear polarization of human keratinocytes. <i>Molecular Biology of the Cell</i> , 2015 , 26, 4373-86	3.5	14
22	The polarity protein Inturned links NPHP4 to Daam1 to control the subapical actin network in multiciliated cells. <i>Journal of Cell Biology</i> , 2015 , 211, 963-73	7.3	40
21	Standardized evaluation of algorithms for computer-aided diagnosis of dementia based on structural MRI: the CADDementia challenge. <i>NeuroImage</i> , 2015 , 111, 562-79	7.9	193
20	The Rac1 regulator ELMO controls basal body migration and docking in multiciliated cells through interaction with Ezrin. <i>Development (Cambridge)</i> , 2015 , 142, 174-84	6.6	35
19	U-Net: Convolutional Networks for Biomedical Image Segmentation. <i>Lecture Notes in Computer Science</i> , 2015 , 234-241	0.9	11746
18	Correction of inter-scanner and within-subject variance in structural MRI based automated diagnosing. <i>NeuroImage</i> , 2014 , 98, 405-15	7.9	29
17	The iRoCS Toolbox--3D analysis of the plant root apical meristem at cellular resolution. <i>Plant Journal</i> , 2014 , 77, 806-14	6.9	48
16	Rotation-Invariant HOG Descriptors Using Fourier Analysis in Polar and Spherical Coordinates. <i>International Journal of Computer Vision</i> , 2014 , 106, 342-364	10.6	91
15	Variational attenuation correction in two-view confocal microscopy. <i>BMC Bioinformatics</i> , 2013 , 14, 366	3.6	4
14	Automated processing of zebrafish imaging data: a survey. <i>Zebrafish</i> , 2013 , 10, 401-21	2	65
13	Blind Deconvolution of Widefield Fluorescence Microscopic Data by Regularization of the Optical Transfer Function (OTF) 2013 ,		6
12	Joint 3D cell segmentation and classification in the Arabidopsis root using energy minimization and shape priors 2013 ,		3
11	Discriminative Detection and Alignment in Volumetric Data. <i>Lecture Notes in Computer Science</i> , 2013 , 205-214	0.9	3
10	Fast rotation invariant 3D feature computation utilizing efficient local neighborhood operators. <i>IEEE Transactions on Pattern Analysis and Machine Intelligence</i> , 2012 , 34, 1563-75	13.3	30
9	2D/3D rotation-invariant detection using equivariant filters and kernel weighted mapping 2012 ,		3
8	ViBE-Z: a framework for 3D virtual colocalization analysis in zebrafish larval brains. <i>Nature Methods</i> , 2012 , 9, 735-42	21.6	103
7	Shroom3 is required downstream of FGF signalling to mediate proneuromast assembly in zebrafish. <i>Development (Cambridge)</i> , 2012 , 139, 4571-81	6.6	44
6	Blind deconvolution with PSF regularization for wide-field microscopy 2012 ,		1

5	Comprehensive catecholaminergic projectome analysis reveals single-neuron integration of zebrafish ascending and descending dopaminergic systems. <i>Nature Communications</i> , 2011 , 2, 171	17.4	199
4	Harmonic filters for 3D multichannel data: rotation invariant detection of mitoses in colorectal cancer. <i>IEEE Transactions on Medical Imaging</i> , 2010 , 29, 1485-95	11.7	12
3	Fast computation of 3D spherical Fourier harmonic descriptors - a complete orthonormal basis for a rotational invariant representation of three-dimensional objects 2009 ,		5
2	Protein complex prediction with AlphaFold-Multimer		126
1	Light dynamically regulates growth rate and cellular organisation of the Arabidopsis root meristem		2