

Udo J Birk

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.

53
papers

909
citations

18
h-index

29
g-index

62
ext. papers

1,067
ext. citations

4.7
avg, IF

3.99
L-index

#	Paper	IF	Citations
53	Spatially modulated illumination microscopy: application perspectives in nuclear nanostructure analysis.. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2022 , 380, 20210152	3	2
52	Medical Physics and Imaging A Timely Perspective. <i>Frontiers in Physics</i> , 2021 , 9,	3.9	2
51	High-resolution deep view microscopy of cells and tissues. <i>Quantum Electronics</i> , 2020 , 50, 2-8	1.8	3
50	Nanoscale distribution of TLR4 on primary human macrophages stimulated with LPS and ATI. <i>Nanoscale</i> , 2019 , 11, 9769-9779	7.7	11
49	Super-Resolution Microscopy of Chromatin. <i>Genes</i> , 2019 , 10,	4.2	10
48	Der Zellkern Eine Stadt in der Zelle, Teil 2. <i>Biologie in Unserer Zeit</i> , 2018 , 48, 45-53	0.1	2
47	Super-resolution binding activated localization microscopy through reversible change of DNA conformation. <i>Nucleus</i> , 2018 , 9, 182-189	3.9	9
46	Imaging chromatin nanostructure with binding-activated localization microscopy based on DNA structure fluctuations. <i>Nucleic Acids Research</i> , 2017 , 45, e56	20.1	18
45	Super-resolution microscopy approaches to nuclear nanostructure imaging. <i>Methods</i> , 2017 , 123, 11-32	4.6	27
44	Super-Resolution Microscopy: Interference and Pattern Techniques 2017 , 291-319		0
43	Physicochemical Background 2017 , 41-82		
42	Hardware and Software 2017 , 83-116		
41	Structured Illumination and Image Scanning Microscopy 2017 , 117-177		1
40	Localization Microscopy 2017 , 179-262		1
39	Stimulated Emission Depletion Microscopy 2017 , 263-314		
38	Multi-Scale Imaging 2017 , 315-355		
37	Super-resolved linear fluorescence localization microscopy using photostable fluorophores: A virtual microscopy study. <i>Optics Communications</i> , 2017 , 404, 42-50	2	3

36	Super-resolution microscopy with very large working distance by means of distributed aperture illumination. <i>Scientific Reports</i> , 2017 , 7, 3685	4.9	6
35	2017 ,		7
34	Quantitative super-resolution localization microscopy of DNA in situ using Vybrant [®] DyeCycle [®] Violet fluorescent probe. <i>Data in Brief</i> , 2016 , 7, 157-71	1.2	17
33	Localization microscopy of DNA in situ using Vybrant [®] DyeCycle [®] Violet fluorescent probe: A new approach to study nuclear nanostructure at single molecule resolution. <i>Experimental Cell Research</i> , 2016 , 343, 97-106	4.2	20
32	Chronic Inflammation Under the Microscope. <i>Microscopy Today</i> , 2016 , 24, 38-45	0.4	
31	Single Molecule Localization Microscopy of Mammalian Cell Nuclei on the Nanoscale. <i>Frontiers in Genetics</i> , 2016 , 7, 114	4.5	8
30	Perspectives in Super-Resolved Fluorescence Microscopy: What Comes Next?. <i>Frontiers in Physics</i> , 2016 , 4,	3.9	17
29	Superresolution imaging reveals structurally distinct periodic patterns of chromatin along pachytene chromosomes. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015 , 112, 14635-40	11.5	52
28	A transient ischemic environment induces reversible compaction of chromatin. <i>Genome Biology</i> , 2015 , 16, 246	18.3	47
27	Single-Molecule Localization Microscopy allows for the analysis of cancer metastasis-specific miRNA distribution on the nanoscale. <i>Oncotarget</i> , 2015 , 6, 44745-57	3.3	18
26	Application perspectives of localization microscopy in virology. <i>Histochemistry and Cell Biology</i> , 2014 , 142, 43-59	2.4	4
25	Single molecule localization microscopy of the distribution of chromatin using Hoechst and DAPI fluorescent probes. <i>Nucleus</i> , 2014 , 5, 331-40	3.9	62
24	Combination of structured illumination and single molecule localization microscopy in one setup. <i>Journal of Optics (United Kingdom)</i> , 2013 , 15, 094003	1.7	37
23	Automated motion correction for in vivo optical projection tomography. <i>IEEE Transactions on Medical Imaging</i> , 2012 , 31, 1358-71	11.7	17
22	Improved reconstructions and generalized filtered back projection for optical projection tomography. <i>Applied Optics</i> , 2011 , 50, 392-8	0.2	29
21	Microscopic optical projection tomography in vivo. <i>PLoS ONE</i> , 2011 , 6, e18963	3.7	40
20	Model based precision structural measurements on barely resolved objects. <i>Journal of Microscopy</i> , 2010 , 237, 70-8	1.9	16
19	Measurement of replication structures at the nanometer scale using super-resolution light microscopy. <i>Nucleic Acids Research</i> , 2010 , 38, e8	20.1	87

18	Correction for specimen movement and rotation errors for in-vivo Optical Projection Tomography. <i>Biomedical Optics Express</i> , 2010 , 1, 87-96	3.5	36
17	Source intensity profile in noncontact optical tomography. <i>Optics Letters</i> , 2010 , 35, 34-6	3	8
16	Festschrift to recognise and celebrate Christoph Cremer's contribution to the field of biophysics on the occasion of his 65th birthday. Preface. <i>European Biophysics Journal</i> , 2009 , 38, 719-20	1.9	0
15	Nanosizing by spatially modulated illumination (SMI) microscopy and applications to the nucleus. <i>Methods in Molecular Biology</i> , 2009 , 464, 389-401	1.4	1
14	Maximum likelihood reconstruction for fluorescence Optical Projection Tomography 2008 ,		1
13	Noise reduction in fluorescence Optical Projection Tomography 2008 ,		1
12	High-precision structural analysis of subnuclear complexes in fixed and live cells via spatially modulated illumination (SMI) microscopy. <i>Chromosome Research</i> , 2008 , 16, 367-82	4.4	60
11	Nanostructure analysis using spatially modulated illumination microscopy. <i>Nature Protocols</i> , 2007 , 2, 2640-6	18.8	34
10	Spatially modulated illumination microscopy using one objective lens. <i>Optical Engineering</i> , 2007 , 46, 083603	6	6
9	Beyond nanosizing: an approach to shape analysis of fluorescent nanostructures by SMI-microscopy. <i>Optik</i> , 2006 , 117, 26-32	2.5	10
8	Nanostructure of specific chromatin regions and nuclear complexes. <i>Histochemistry and Cell Biology</i> , 2006 , 125, 75-82	2.4	19
7	Local protein/gene density measurements using SMI microscopy 2006 ,		2
6	Nano-sizing of specific gene domains in intact human cell nuclei by spatially modulated illumination light microscopy. <i>Biophysical Journal</i> , 2005 , 88, 4312-8	2.9	42
5	High-precision SMI microscopy size measurements by simultaneous frequency domain reconstruction of the axial point spread function. <i>Optik</i> , 2005 , 116, 15-21	2.5	11
4	Superresolution size determination in fluorescence microscopy: A comparison between spatially modulated illumination and confocal laser scanning microscopy. <i>Journal of Applied Physics</i> , 2004 , 95, 8436-8443	2.5	19
3	Measuring the size of biological nanostructures with spatially modulated illumination microscopy. <i>Molecular Biology of the Cell</i> , 2004 , 15, 2449-55	3.5	47
2	Nanosizing of fluorescent objects by spatially modulated illuminated microscopy: erratum 2003 , 42, 1308		
1	Nanosizing of fluorescent objects by spatially modulated illumination microscopy. <i>Applied Optics</i> , 2002 , 41, 7275-83	1.7	39

