

Axel Mosig

List of Publications by Year in descending order

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Version: 2024-02-01

52
papers

1,590
citations

279701

23
h-index

315616

38
g-index

62
all docs

62
docs citations

62
times ranked

2332
citing authors

#	ARTICLE	IF	CITATIONS
1	Evolution of Vault RNAs. <i>Molecular Biology and Evolution</i> , 2009, 26, 1975-1991.	3.5	130
2	Label-free imaging of drug distribution and metabolism in colon cancer cells by Raman microscopy. <i>Analyst, The</i> , 2014, 139, 1155.	1.7	126
3	Immunohistochemistry, histopathology and infrared spectral histopathology of colon cancer tissue sections. <i>Journal of Biophotonics</i> , 2013, 6, 88-100.	1.1	101
4	Structure and Function of the Smallest Vertebrate Telomerase RNA from Teleost Fish. <i>Journal of Biological Chemistry</i> , 2008, 283, 2049-2059.	1.6	78
5	The common ancestral core of vertebrate and fungal telomerase RNAs. <i>Nucleic Acids Research</i> , 2013, 41, 450-462.	6.5	70
6	Evolutionary patterns of non-coding RNAs. <i>Theory in Biosciences</i> , 2005, 123, 301-369.	0.6	64
7	Characterization of statistical features for plant microRNA prediction. <i>BMC Genomics</i> , 2011, 12, 108.	1.2	63
8	Label-free classification of colon cancer grading using infrared spectral histopathology. <i>Faraday Discussions</i> , 2016, 187, 105-118.	1.6	56
9	Omnisphero: a high-content image analysis (HCA) approach for phenotypic developmental neurotoxicity (DNT) screenings of organoid neurosphere cultures in vitro. <i>Archives of Toxicology</i> , 2017, 91, 2017-2028.	1.9	56
10	Evolution of the vertebrate Y RNA cluster. <i>Theory in Biosciences</i> , 2007, 126, 9-14.	0.6	54
11	Spectral histopathology of colon cancer tissue sections by Raman imaging with 532 nm excitation provides label free annotation of lymphocytes, erythrocytes and proliferating nuclei of cancer cells. <i>Analyst, The</i> , 2013, 138, 4035.	1.7	51
12	Spatial and molecular resolution of diffuse malignant mesothelioma heterogeneity by integrating label-free FTIR imaging, laser capture microdissection and proteomics. <i>Scientific Reports</i> , 2017, 7, 44829.	1.6	49
13	RNAs everywhere: genome-wide annotation of structured RNAs. <i>Journal of Experimental Zoology Part B: Molecular and Developmental Evolution</i> , 2007, 308B, 1-25.	0.6	46
14	Arthropod 7SK RNA. <i>Molecular Biology and Evolution</i> , 2008, 25, 1923-1930.	3.5	45
15	Automated Identification of Subcellular Organelles by Coherent Anti-Stokes Raman Scattering. <i>Biophysical Journal</i> , 2014, 106, 1910-1920.	0.2	43
16	Circulation times of prostate cancer and hepatocellular carcinoma cells by in vivo flow cytometry. <i>Cytometry Part A: the Journal of the International Society for Analytical Cytology</i> , 2011, 79A, 848-854.	1.1	41
17	Fast and Noninvasive Diagnosis of Cervical Cancer by Coherent Anti-Stokes Raman Scattering. <i>Analytical Chemistry</i> , 2019, 91, 13900-13906.	3.2	39
18	Noninvasive Diagnosis of High-Grade Urothelial Carcinoma in Urine by Raman Spectral Imaging. <i>Analytical Chemistry</i> , 2017, 89, 6893-6899.	3.2	38

#	ARTICLE	IF	CITATIONS
19	Invertebrate 7SK snRNAs. <i>Journal of Molecular Evolution</i> , 2008, 66, 107-115.	0.8	37
20	Establishment of an a priori protocol for the implementation and interpretation of an in vitro testing battery for the assessment of developmental neurotoxicity. <i>EFSA Supporting Publications</i> , 2020, 17, 1938E.	0.3	36
21	Tracking cells in Life Cell Imaging videos using topological alignments. <i>Algorithms for Molecular Biology</i> , 2009, 4, 10.	0.3	33
22	Approximately matching polygonal curves with respect to the Fréchet distance. <i>Computational Geometry: Theory and Applications</i> , 2005, 30, 113-127.	0.3	29
23	Hierarchical deep convolutional neural networks combine spectral and spatial information for highly accurate Raman microscopy-based cytopathology. <i>Journal of Biophotonics</i> , 2018, 11, e201800022.	1.1	29
24	Colocalization of fluorescence and Raman microscopic images for the identification of subcellular compartments: a validation study. <i>Analyst, The</i> , 2015, 140, 2360-2368.	1.7	24
25	Lead-seq: transcriptome-wide structure probing in vivo using lead(II) ions. <i>Nucleic Acids Research</i> , 2020, 48, e71-e71.	6.5	24
26	Fragrep: An Efficient Search Tool for Fragmented Patterns in Genomic Sequences. <i>Genomics, Proteomics and Bioinformatics</i> , 2006, 4, 56-60.	3.0	21
27	Prevalent and distinct spliceosomal 3' end processing mechanisms for fungal telomerase RNA. <i>Nature Communications</i> , 2015, 6, 6105.	5.8	21
28	Deep representation learning for domain adaptable classification of infrared spectral imaging data. <i>Bioinformatics</i> , 2020, 36, 287-294.	1.8	19
29	U7 snRNAs: A Computational Survey. <i>Genomics, Proteomics and Bioinformatics</i> , 2007, 5, 187-195.	3.0	17
30	Customized strategies for discovering distant ncRNA homologs. <i>Briefings in Functional Genomics & Proteomics</i> , 2009, 8, 451-460.	3.8	17
31	tracking microglia motility in 3D using a novel cosegmentation approach. <i>Bioinformatics</i> , 2011, 27, 564-571.	1.8	17
32	Homology Search with Fragmented Nucleic Acid Sequence Patterns. <i>Lecture Notes in Computer Science</i> , 2007, , 335-345.	1.0	13
33	A computational evaluation of over-representation of regulatory motifs in the promoter regions of differentially expressed genes. <i>BMC Bioinformatics</i> , 2010, 11, 267.	1.2	11
34	A Propagated Skeleton Approach to High Throughput Screening of Neurite Outgrowth for In Vitro Parkinson's Disease Modelling. <i>Cells</i> , 2021, 10, 931.	1.8	10
35	Fully automated registration of vibrational microspectroscopic images in histologically stained tissue sections. <i>BMC Bioinformatics</i> , 2015, 16, 396.	1.2	9
36	Integrating spatial, morphological, and textural information for improved cell type differentiation using Raman microscopy. <i>Journal of Chemometrics</i> , 2018, 32, e2973.	0.7	9

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37	Similarity maps and hierarchical clustering for annotating FT-IR spectral images. BMC Bioinformatics, 2013, 14, 333.	1.2	8
38	An Image Skeletonization-Based Tool for Pollen Tube Morphology Analysis and Phenotyping. Journal of Integrative Plant Biology, 2013, 55, 131-141.	4.1	8
39	Automatic counting and positioning of 5-bromo-2-deoxyuridine (BrdU) positive cells in cortical layers of rat brain slices. NeuroToxicology, 2014, 43, 127-133.	1.4	8
40	Grayscale representation of infrared microscopy images by extended multiplicative signal correction for registration with histological images. Journal of Biophotonics, 2020, 13, e201960223.	1.1	8
41	Reliable Identification and Quantification of Neural Cells in Microscopic Images of Neurospheres. Cytometry Part A: the Journal of the International Society for Analytical Cytology, 2021, , .	1.1	6
42	Signaling pathways of heat- and hypersalinity-induced polyp bailout in Pocillopora acuta. Coral Reefs, 2021, 40, 1713-1728.	0.9	5
43	Cell Counting for In Vivo Flow Cytometer Signals Using Wavelet-Based Dynamic Peak Picking. , 2009, , .		3
44	A representation learning approach for recovering scatter-corrected spectra from Fourier-transform infrared spectra of tissue samples. Journal of Biophotonics, 2021, 14, e202000385.	1.1	3
45	Shape decomposition algorithms for laser capture microdissection. Algorithms for Molecular Biology, 2021, 16, 15.	0.3	3
46	Regulatory Signals in Genomic Sequences. , 2007, , 189-216.		1
47	Association of high microsatellite instability (MSI-H) with a high immunoscore (IS) compared to PD-L1 expression and increased survival in patients (pts) with metastatic colorectal cancer (mCRC) treated with oxaliplatin (Ox) and fluoropyrimidine (FP): A pooled analysis of the AIO KRK 0207 and RO91 trials.. Journal of Clinical Oncology, 2017, 35, 3595-3595.	0.8	1
48	Dynamic Programming Algorithms for Efficiently Computing Cosegmentations between Biological Images. Lecture Notes in Computer Science, 2011, , 339-350.	1.0	1
49	Inverse folding based pre-training for the reliable identification of intrinsic transcription terminators. PLoS Computational Biology, 2022, 18, e1010240.	1.5	1
50	Discovering cis-regulatory modules by optimizing barbecues. Discrete Applied Mathematics, 2009, 157, 2458-2468.	0.5	0
51	Identifying minimally redundant wavenumbers for vibrational microspectroscopic image analysis. , 2014, , .		0
52	Letter to the Editor regarding the recent contribution by Roussel et al., SARS-CoV-2: Fear versus data. International Journal of Antimicrobial Agents, 2020, 56, 106074.	1.1	0