

Walid M Abdelmoula

List of Publications by Year in descending order

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Version: 2024-02-01

27
papers

903
citations

516710

16
h-index

677142

22
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30
all docs

30
docs citations

30
times ranked

1416
citing authors

#	ARTICLE	IF	CITATIONS
1	Data-driven identification of prognostic tumor subpopulations using spatially mapped t-SNE of mass spectrometry imaging data. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 12244-12249.	7.1	154
2	Postmortem MRI and histology demonstrate differential iron accumulation and cortical myelin organization in early- and late-onset Alzheimer's disease. Neurobiology of Aging, 2018, 62, 231-242.	3.1	93
3	Localized Metabolomic Gradients in Patient-Derived Xenograft Models of Glioblastoma. Cancer Research, 2020, 80, 1258-1267.	0.9	67
4	Automatic Generic Registration of Mass Spectrometry Imaging Data to Histology Using Nonlinear Stochastic Embedding. Analytical Chemistry, 2014, 86, 9204-9211.	6.5	62
5	Integrated mapping of pharmacokinetics and pharmacodynamics in a patient-derived xenograft model of glioblastoma. Nature Communications, 2018, 9, 4904.	12.8	62
6	Rapid MALDI mass spectrometry imaging for surgical pathology. Npj Precision Oncology, 2019, 3, 17.	5.4	59
7	Automatic Registration of Mass Spectrometry Imaging Data Sets to the Allen Brain Atlas. Analytical Chemistry, 2014, 86, 3947-3954.	6.5	58
8	Automatic 3D Nonlinear Registration of Mass Spectrometry Imaging and Magnetic Resonance Imaging Data. Analytical Chemistry, 2019, 91, 6206-6216.	6.5	45
9	Peak learning of mass spectrometry imaging data using artificial neural networks. Nature Communications, 2021, 12, 5544.	12.8	43
10	Interactive Visual Exploration of 3D Mass Spectrometry Imaging Data Using Hierarchical Stochastic Neighbor Embedding Reveals Spatiomolecular Structures at Full Data Resolution. Journal of Proteome Research, 2018, 17, 1054-1064.	3.7	37
11	Whole-Brain Microscopy Meets In Vivo Neuroimaging: Techniques, Benefits, and Limitations. Molecular Imaging and Biology, 2017, 19, 1-9.	2.6	30
12	Histology-Guided High-Resolution Matrix-Assisted Laser Desorption Ionization Mass Spectrometry Imaging. Analytical Chemistry, 2015, 87, 11978-11983.	6.5	29
13	Large-Scale Mass Spectrometry Imaging Investigation of Consequences of Cortical Spreading Depression in a Transgenic Mouse Model of Migraine. Journal of the American Society for Mass Spectrometry, 2015, 26, 853-861.	2.8	27
14	Precise Anatomic Localization of Accumulated Lipids in <i>Mfp2</i> Deficient Murine Brains Through Automated Registration of SIMS Images to the Allen Brain Atlas. Journal of the American Society for Mass Spectrometry, 2015, 26, 948-957.	2.8	23
15	Quantitative MRI and laser ablation-inductively coupled plasma-mass spectrometry imaging of iron in the frontal cortex of healthy controls and Alzheimer's disease patients. NeuroImage, 2020, 215, 116808.	4.2	21
16	Segmentation of Choroidal Neovascularization in Fundus Fluorescein Angiograms. IEEE Transactions on Biomedical Engineering, 2013, 60, 1439-1445.	4.2	17
17	A unique subset of glycolytic tumour-propagating cells drives squamous cell carcinoma. Nature Metabolism, 2021, 3, 182-195.	11.9	17
18	High-Throughput Analysis of Tissue-Embedded Single Cells by Mass Spectrometry with Bimodal Imaging and Object Recognition. Analytical Chemistry, 2021, 93, 9677-9687.	6.5	17

#	ARTICLE	IF	CITATIONS
19	massNet: integrated processing and classification of spatially resolved mass spectrometry data using deep learning for rapid tumor delineation. <i>Bioinformatics</i> , 2022, 38, 2015-2021.	4.1	13
20	Interim clinical trial analysis of intraoperative mass spectrometry for breast cancer surgery. <i>Npj Breast Cancer</i> , 2021, 7, 116.	5.2	10
21	Segmentation of Choroidal Neovascularization lesions in fluorescein angiograms using parametric modeling of the intensity variation. , 2011, , .		5
22	Multimodal platform for assessing drug distribution and response in clinical trials. <i>Neuro-Oncology</i> , 2022, 24, 64-77.	1.2	4
23	Quantitative assessment of age-related macular degeneration using parametric modeling of the leakage transfer function: Preliminary results. , 2012, 2012, 5967-70.		2
24	Automatic registration of imaging mass spectrometry data to the Allen Brain Atlas transcriptome. , 2014, , .		2
25	TMOD-07. LOCALIZATION OF ERLONIB RELATIVE TO MRI-BASED TUMOR EXTENT IN PDX GLIOBLASTOMA MODEL: TOWARDS A MATHEMATICAL MODEL FOR THE INTERFACE BETWEEN MRI AND DRUG DISTRIBUTION. <i>Neuro-Oncology</i> , 2018, 20, vi269-vi270.	1.2	1
26	[O1â€™08â€™04]: IRON AND MYELIN AS SOURCES OF MRI CONTRAST IN PATIENTS WITH ALZHEIMER'S DISEASE. <i>Alzheimer's and Dementia</i> , 2017, 13, P208.	0.8	0
27	NIMG-75. ANALYZING THE INTERFACE BETWEEN MRI AND DRUG DISTRIBUTION USING ORTHOTOPIC GBM-DERIVED XENOGRAFT (PDX) MODELS. <i>Neuro-Oncology</i> , 2021, 23, vi146-vi146.	1.2	0