

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	Multimodal platform for assessing drug distribution and response in clinical trials. <i>Neuro-Oncology</i> , 2022, 24, 64-77.	1.2	4
2	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
3	A unique subset of glycolytic tumour-propagating cells drives squamous cell carcinoma. <i>Nature Metabolism</i> , 2021, 3, 182-195.	11.9	17
4	High-Throughput Analysis of Tissue-Embedded Single Cells by Mass Spectrometry with Bimodal Imaging and Object Recognition. <i>Analytical Chemistry</i> , 2021, 93, 9677-9687.	6.5	17
5	Interim clinical trial analysis of intraoperative mass spectrometry for breast cancer surgery. <i>Npj Breast Cancer</i> , 2021, 7, 116.	5.2	10
6	Peak learning of mass spectrometry imaging data using artificial neural networks. <i>Nature Communications</i> , 2021, 12, 5544.	12.8	43
7	NIMG-75. ANALYZING THE INTERFACE BETWEEN MRI AND DRUG DISTRIBUTION USING ORTHOTOPIC GBM-DERIVED XENOGRIFT (PDX) MODELS. <i>Neuro-Oncology</i> , 2021, 23, vi146-vi146.	1.2	0
8	Localized Metabolomic Gradients in Patient-Derived Xenograft Models of Glioblastoma. <i>Cancer Research</i> , 2020, 80, 1258-1267.	0.9	67
9	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. <i>NeuroImage</i> , 2020, 215, 116808.	4.2	21
10	Rapid MALDI mass spectrometry imaging for surgical pathology. <i>Npj Precision Oncology</i> , 2019, 3, 17.	5.4	59
11	Automatic 3D Nonlinear Registration of Mass Spectrometry Imaging and Magnetic Resonance Imaging Data. <i>Analytical Chemistry</i> , 2019, 91, 6206-6216.	6.5	45
12	Interactive Visual Exploration of 3D Mass Spectrometry Imaging Data Using Hierarchical Stochastic Neighbor Embedding Reveals Spatiomolecular Structures at Full Data Resolution. <i>Journal of Proteome Research</i> , 2018, 17, 1054-1064.	3.7	37
13	Postmortem MRI and histology demonstrate differential iron accumulation and cortical myelin organization in early- and late-onset Alzheimer's disease. <i>Neurobiology of Aging</i> , 2018, 62, 231-242.	3.1	93
14	TMOD-07. LOCALIZATION OF ERLONITINIB 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
15	Integrated mapping of pharmacokinetics and pharmacodynamics in a patient-derived xenograft model of glioblastoma. <i>Nature Communications</i> , 2018, 9, 4904.	12.8	62
16	Whole-Brain Microscopy Meets In Vivo Neuroimaging: Techniques, Benefits, and Limitations. <i>Molecular Imaging and Biology</i> , 2017, 19, 1-9.	2.6	30
17	[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
18	Data-driven identification of prognostic tumor subpopulations using spatially mapped t-SNE of mass spectrometry imaging data. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 12244-12249.	7.1	154

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19	Precise Anatomic Localization of Accumulated Lipids in <i>Mfp2</i> Deficient Murine Brains Through Automated Registration of SIMS Images to the Allen Brain Atlas. <i>Journal of the American Society for Mass Spectrometry</i> , 2015, 26, 948-957.	2.8	23
20	Large-Scale Mass Spectrometry Imaging Investigation of Consequences of Cortical Spreading Depression in a Transgenic Mouse Model of Migraine. <i>Journal of the American Society for Mass Spectrometry</i> , 2015, 26, 853-861.	2.8	27
21	Histology-Guided High-Resolution Matrix-Assisted Laser Desorption Ionization Mass Spectrometry Imaging. <i>Analytical Chemistry</i> , 2015, 87, 11978-11983.	6.5	29
22	Automatic registration of imaging mass spectrometry data to the Allen Brain Atlas transcriptome. , 2014, , .		2
23	Automatic Generic Registration of Mass Spectrometry Imaging Data to Histology Using Nonlinear Stochastic Embedding. <i>Analytical Chemistry</i> , 2014, 86, 9204-9211.	6.5	62
24	Automatic Registration of Mass Spectrometry Imaging Data Sets to the Allen Brain Atlas. <i>Analytical Chemistry</i> , 2014, 86, 3947-3954.	6.5	58
25	Segmentation of Choroidal Neovascularization in Fundus Fluorescein Angiograms. <i>IEEE Transactions on Biomedical Engineering</i> , 2013, 60, 1439-1445.	4.2	17
26	Quantitative assessment of age-related macular degeneration using parametric modeling of the leakage transfer function: Preliminary results. , 2012, 2012, 5967-70.		2
27	Segmentation of Choroidal Neovascularization lesions in fluorescein angiograms using parametric modeling of the intensity variation. , 2011, , .		5