

Achim Buck

List of Publications by Year in descending order

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Version: 2024-02-01

27
papers

956
citations

623734

14
h-index

526287

27
g-index

27
all docs

27
docs citations

27
times ranked

1575
citing authors

#	ARTICLE	IF	CITATIONS
1	High-mass-resolution MALDI mass spectrometry imaging of metabolites from formalin-fixed paraffin-embedded tissue. <i>Nature Protocols</i> , 2016, 11, 1428-1443.	12.0	190
2	High-resolution MALDI-FT-ICR MS imaging for the analysis of metabolites from formalin-fixed, paraffin-embedded clinical tissue samples. <i>Journal of Pathology</i> , 2015, 237, 123-132.	4.5	123
3	Imaging of pH in vivo using hyperpolarized ¹³ C-labelled zymonic acid. <i>Nature Communications</i> , 2017, 8, 15126.	12.8	94
4	N-acyl Taurines and Acylcarnitines Cause an Imbalance in Insulin Synthesis and Secretion Provoking β^2 Cell Dysfunction in Type 2 Diabetes. <i>Cell Metabolism</i> , 2017, 25, 1334-1347.e4.	16.2	87
5	Distribution and quantification of irinotecan and its active metabolite SN-38 in colon cancer murine model systems using MALDI MSI. <i>Analytical and Bioanalytical Chemistry</i> , 2015, 407, 2107-2116.	3.7	84
6	Round robin study of formalin-fixed paraffin-embedded tissues in mass spectrometry imaging. <i>Analytical and Bioanalytical Chemistry</i> , 2018, 410, 5969-5980.	3.7	39
7	Native glycan fragments detected by MALDI-FT-ICR mass spectrometry imaging impact gastric cancer biology and patient outcome. <i>Oncotarget</i> , 2017, 8, 68012-68025.	1.8	34
8	De novo discovery of metabolic heterogeneity with immunophenotype-guided imaging mass spectrometry. <i>Molecular Metabolism</i> , 2020, 36, 100953.	6.5	32
9	Spatial Metabolomics Identifies Distinct Tumor-Specific Subtypes in Gastric Cancer Patients. <i>Clinical Cancer Research</i> , 2022, 28, 2865-2877.	7.0	27
10	Molecular similarities and differences from human pulmonary fibrosis and corresponding mouse model: MALDI imaging mass spectrometry in comparative medicine. <i>Laboratory Investigation</i> , 2018, 98, 141-149.	3.7	25
11	How Suitable is Matrix-Assisted Laser Desorption/Ionization-Time-of-Flight for Metabolite Imaging from Clinical Formalin-Fixed and Paraffin-Embedded Tissue Samples in Comparison to Matrix-Assisted Laser Desorption/Ionization-Fourier Transform Ion Cyclotron Resonance Mass Spectrometry?. <i>Analytical Chemistry</i> , 2016, 88, 5281-5289.	6.5	24
12	<i>In situ</i> drug and metabolite analysis in biological and clinical research by MALDI-MS imaging. <i>Bioanalysis</i> , 2014, 6, 1241-1253.	1.5	22
13	Light sheet fluorescence microscopy guided MALDI-imaging mass spectrometry of cleared tissue samples. <i>Scientific Reports</i> , 2020, 10, 14461.	3.3	22
14	Derangements of amino acids in cachectic skeletal muscle are caused by mitochondrial dysfunction. <i>Journal of Cachexia, Sarcopenia and Muscle</i> , 2020, 11, 226-240.	7.3	20
15	Spatial metabolomics for evaluating response to neoadjuvant therapy in non-small cell lung cancer patients. <i>Cancer Communications</i> , 2022, 42, 517-535.	9.2	19
16	Optimized protocol for metabolomic and lipidomic profiling in formalin-fixed paraffin-embedded kidney tissue by LC-MS. <i>Analytica Chimica Acta</i> , 2020, 1134, 125-135.	5.4	15
17	PAXgene fixation enables comprehensive metabolomic and proteomic analyses of tissue specimens by MALDI MSI. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2018, 1862, 51-60.	2.4	14
18	MALDI imaging mass spectrometry as a novel tool for detecting histone modifications in clinical tissue samples. <i>Expert Review of Proteomics</i> , 2016, 13, 275-284.	3.0	13

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19	Patterns of Carbon-Bound Exogenous Compounds in Patients with Lung Cancer and Association with Disease Pathophysiology. <i>Cancer Research</i> , 2021, 81, 5862-5875.	0.9	12
20	Metabolic tumor constitution is superior to tumor regression grading for evaluating response to neoadjuvant therapy of esophageal adenocarcinoma patients. <i>Journal of Pathology</i> , 2022, 256, 202-213.	4.5	11
21	Multimodal analysis of formalin-fixed and paraffin-embedded tissue by MALDI imaging and fluorescence in situ hybridization for combined genetic and metabolic analysis. <i>Laboratory Investigation</i> , 2019, 99, 1535-1546.	3.7	10
22	A new model system identifies epidermal growth factor receptor-human epidermal growth factor receptor 2 (HER2) and HER2-human epidermal growth factor receptor 3 heterodimers as potent inducers of oesophageal epithelial cell invasion. <i>Journal of Pathology</i> , 2017, 243, 481-495.	4.5	9
23	Integrative Clustering in Mass Spectrometry Imaging for Enhanced Patient Stratification. <i>Proteomics - Clinical Applications</i> , 2019, 13, e1800137.	1.6	8
24	MALDI Mass Spectrometry Imagingâ€™s Prognostic Pathways and Metabolites for Renal Cell Carcinomas. <i>Cancers</i> , 2022, 14, 1763.	3.7	8
25	The synergism of spatial metabolomics and morphometry improves machine learningâ€™based renal tumour subtype classification. <i>Clinical and Translational Medicine</i> , 2022, 12, e666.	4.0	7
26	Metabolomic therapy response prediction in pretherapeutic tissue biopsies for trastuzumab in patients with HER2â€™positive advanced gastric cancer. <i>Clinical and Translational Medicine</i> , 2021, 11, e547.	4.0	4
27	A simple preparation step to remove excess liquid lipids in white adipose tissue enabling improved detection of metabolites via MALDI-FTICR imaging MS. <i>Histochemistry and Cell Biology</i> , 2022, , 1.	1.7	3