

# Axel Karl Walch

## List of Publications by Year in descending order

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Version: 2024-02-01

315  
papers

22,491  
citations

14655

66  
h-index

12272

133  
g-index

328  
all docs

328  
docs citations

328  
times ranked

29244  
citing authors

#	ARTICLE	IF	CITATIONS
1	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
2	Atlas of exercise metabolism reveals time-dependent signatures of metabolic homeostasis. <i>Cell Metabolism</i> , 2022, 34, 329-345.e8.	16.2	86
3	The synergism of spatial metabolomics and morphometry improves machine learning-based renal tumour subtype classification. <i>Clinical and Translational Medicine</i> , 2022, 12, e666.	4.0	7
4	Adrenal tropism of SARS-CoV-2 and adrenal findings in a post-mortem case series of patients with severe fatal COVID-19. <i>Nature Communications</i> , 2022, 13, 1589.	12.8	24
5	Combining gene expression analysis of gastric cancer cell lines and tumor specimens to identify biomarkers for anti-HER therapies—the role of HAS2, SHB and HBEGF. <i>BMC Cancer</i> , 2022, 22, 254.	2.6	4
6	MALDI Mass Spectrometry Imaging—Prognostic Pathways and Metabolites for Renal Cell Carcinomas. <i>Cancers</i> , 2022, 14, 1763.	3.7	8
7	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
8	Spatial Metabolomics Identifies Distinct Tumor-Specific Subtypes in Gastric Cancer Patients. <i>Clinical Cancer Research</i> , 2022, 28, 2865-2877.	7.0	27
9	Therapy-Related Transcriptional Subtypes in Matched Primary and Recurrent Head and Neck Cancer. <i>Clinical Cancer Research</i> , 2022, 28, 1038-1052.	7.0	13
10	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
11	Early detection of radiation-induced lung damage with X-ray dark-field radiography in mice. <i>European Radiology</i> , 2021, 31, 4175-4183.	4.5	7
12	Digital scoring of EpCAM and slug expression as prognostic markers in head and neck squamous cell carcinomas. <i>Molecular Oncology</i> , 2021, 15, 1040-1053.	4.6	6
13	Unbiased analysis of obesity related, fat depot specific changes of adipocyte volumes and numbers using light sheet fluorescence microscopy. <i>PLoS ONE</i> , 2021, 16, e0248594.	2.5	1
14	Inhibition of HSP90 as a Strategy to Radiosensitize Glioblastoma: Targeting the DNA Damage Response and Beyond. <i>Frontiers in Oncology</i> , 2021, 11, 612354.	2.8	12
15	Transcriptomic landscape of radiation-induced murine thyroid proliferative lesions. <i>Endocrine-Related Cancer</i> , 2021, 28, 213-224.	3.1	0
16	Facile Synthesis of a Croconaine-Based Nanoformulation for Optoacoustic Imaging and Photothermal Therapy. <i>Advanced Healthcare Materials</i> , 2021, 10, e2002115.	7.6	34
17	HER2 Expression, Test Deviations, and Their Impact on Survival in Metastatic Gastric Cancer: Results From the Prospective Multicenter VARIANZ Study. <i>Journal of Clinical Oncology</i> , 2021, 39, 1468-1478.	1.6	54
18	Croconaine-based nanoparticles enable efficient optoacoustic imaging of murine brain tumors. <i>Photoacoustics</i> , 2021, 22, 100263.	7.8	19

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19	Mass spectrometry imaging identifies metabolic patterns associated with malignant potential in pheochromocytoma and paraganglioma. <i>European Journal of Endocrinology</i> , 2021, 185, 179-191.	3.7	12
20	Inhibition of metabotropic glutamate receptor III facilitates sensitization to alkylating chemotherapeutics in glioblastoma. <i>Cell Death and Disease</i> , 2021, 12, 723.	6.3	14
21	Translatomic profiling reveals novel self-restricting virus-host interactions during HBV infection. <i>Journal of Hepatology</i> , 2021, 75, 74-85.	3.7	16
22	Metabolomic therapy response prediction in pretherapeutic tissue biopsies for trastuzumab in patients with HER2-positive advanced gastric cancer. <i>Clinical and Translational Medicine</i> , 2021, 11, e547.	4.0	4
23	Diet-induced alteration of intestinal stem cell function underlies obesity and prediabetes in mice. <i>Nature Metabolism</i> , 2021, 3, 1202-1216.	11.9	47
24	Identification and characterization of distinct brown adipocyte subtypes in C57BL/6J mice. <i>Life Science Alliance</i> , 2021, 4, e202000924.	2.8	14
25	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
26	Multimiomics interrogation into HBV (Hepatitis B virus)-host interaction reveals novel coding potential in human genome, and identifies canonical and non-canonical proteins as host restriction factors against HBV. <i>Cell Discovery</i> , 2021, 7, 105.	6.7	9
27	PITX2 DNA-Methylation: Predictive versus Prognostic Value for Anthracycline-Based Chemotherapy in Triple-Negative Breast Cancer Patients. <i>Breast Care</i> , 2021, 16, 523-531.	1.4	3
28	Native glycan fragments detected by MALDI mass spectrometry imaging are independent prognostic factors in pancreatic ductal adenocarcinoma. <i>EJNMMI Research</i> , 2021, 11, 120.	2.5	3
29	Glutathione peroxidase 4 and vitamin E control reticulocyte maturation, stress erythropoiesis and iron homeostasis. <i>Haematologica</i> , 2020, 105, 937-950.	3.5	42
30	Mass Spectrometry Imaging of atherosclerosis-affine Gadofluorine following Magnetic Resonance Imaging. <i>Scientific Reports</i> , 2020, 10, 79.	3.3	9
31	Definitive chemoradiotherapy in patients with squamous cell cancers of the head and neck - results from an unselected cohort of the clinical cooperation group "Personalized Radiotherapy in Head and Neck Cancer". <i>Radiation Oncology</i> , 2020, 15, 7.	2.7	28
32	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
33	Effect of Dietary Sodium Modulation on Pig Adrenal Steroidogenesis and Transcriptome Profiles. <i>Hypertension</i> , 2020, 76, 1769-1777.	2.7	5
34	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
35	Morphometric Cell Classification for Single-Cell MALDI-Mass Spectrometry Imaging. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 17447-17450.	13.8	47
36	A multi-test strategy for adrenal tumours. <i>Lancet Diabetes and Endocrinology</i> , 2020, 8, 733-734.	11.4	1

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37	Light sheet fluorescence microscopy guided MALDI-imaging mass spectrometry of cleared tissue samples. <i>Scientific Reports</i> , 2020, 10, 14461.	3.3	22
38	Post-surgical adhesions are triggered by calcium-dependent membrane bridges between mesothelial surfaces. <i>Nature Communications</i> , 2020, 11, 3068.	12.8	42
39	In situ Metabolite Mass Spectrometry Imaging: New Insights into the Adrenal Gland. <i>Hormone and Metabolic Research</i> , 2020, 52, 435-447.	1.5	3
40	Active steroid hormone synthesis renders adrenocortical cells highly susceptible to type II ferroptosis induction. <i>Cell Death and Disease</i> , 2020, 11, 192.	6.3	39
41	De novo discovery of metabolic heterogeneity with immunophenotype-guided imaging mass spectrometry. <i>Molecular Metabolism</i> , 2020, 36, 100953.	6.5	32
42	Mass Spectrometry Imaging Establishes 2 Distinct Metabolic Phenotypes of Aldosterone-Producing Cell Clusters in Primary Aldosteronism. <i>Hypertension</i> , 2020, 75, 634-644.	2.7	33
43	The Intratumoral Heterogeneity Reflects the Intertumoral Subtypes of Glioblastoma Multiforme: A Regional Immunohistochemistry Analysis. <i>Frontiers in Oncology</i> , 2020, 10, 494.	2.8	50
44	In Situ Metabolomics Expands the Spectrum of Renal Tumours Positive on 99mTc-sestamibi Single Photon Emission Computed Tomography/Computed Tomography Examination. <i>European Urology Open Science</i> , 2020, 22, 88-96.	0.4	6
45	A practical guide to unbiased quantitative morphological analyses of the gills of rainbow trout ( <i>Oncorhynchus mykiss</i> ) in ecotoxicological studies. <i>PLoS ONE</i> , 2020, 15, e0243462.	2.5	9
46	High levels of KLK7 protein expression are related to a favorable prognosis in triple-negative breast cancer patients. <i>American Journal of Cancer Research</i> , 2020, 10, 1785-1792.	1.4	0
47	Heat Shock Protein 90 as a Prognostic Marker and Therapeutic Target for Adrenocortical Carcinoma. <i>Frontiers in Endocrinology</i> , 2019, 10, 487.	3.5	14
48	In situ metabolomics in cancer tissue by high-resolution mass spectrometry imaging. , 2019, , 253-279.		6
49	Multimodal Precision Imaging of Pulmonary Nanoparticle Delivery in Mice: Dynamics of Application, Spatial Distribution, and Dosimetry. <i>Small</i> , 2019, 15, e1904112.	10.0	21
50	Gene-by-Sex Interactions in Mitochondrial Functions and Cardio-Metabolic Traits. <i>Cell Metabolism</i> , 2019, 29, 932-949.e4.	16.2	79
51	Prognostic Relevance of Steroid Sulfation in Adrenocortical Carcinoma Revealed by Molecular Phenotyping Using High-Resolution Mass Spectrometry Imaging. <i>Clinical Chemistry</i> , 2019, 65, 1276-1286.	3.2	19
52	Iron-Sequestering Nanocompartments as Multiplexed Electron Microscopy Gene Reporters. <i>ACS Nano</i> , 2019, 13, 8114-8123.	14.6	33
53	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
54	Impact of Extrinsic and Intrinsic Hypoxia on Catecholamine Biosynthesis in Absence or Presence of Hif2 $\alpha$ in Pheochromocytoma Cells. <i>Cancers</i> , 2019, 11, 594.	3.7	24

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55	Bioengineered bacterial vesicles as biological nano-heaters for optoacoustic imaging. <i>Nature Communications</i> , 2019, 10, 1114.	12.8	128
56	Novel methods in adrenal research: a metabolomics approach. <i>Histochemistry and Cell Biology</i> , 2019, 151, 201-216.	1.7	10
57	Dusp8 affects hippocampal size and behavior in mice and humans. <i>Scientific Reports</i> , 2019, 9, 19483.	3.3	5
58	Patch repair of deep wounds by mobilized fascia. <i>Nature</i> , 2019, 576, 287-292.	27.8	129
59	Beam size limit for pencil minibeam radiotherapy determined from side effects in an in-vivo mouse ear model. <i>PLoS ONE</i> , 2019, 14, e0221454.	2.5	12
60	A Five-MicroRNA Signature Predicts Survival and Disease Control of Patients with Head and Neck Cancer Negative for HPV Infection. <i>Clinical Cancer Research</i> , 2019, 25, 1505-1516.	7.0	67
61	Integrative Clustering in Mass Spectrometry Imaging for Enhanced Patient Stratification. <i>Proteomics - Clinical Applications</i> , 2019, 13, e1800137.	1.6	8
62	Three-Dimensional Quantitative Co-Mapping of Pulmonary Morphology and Nanoparticle Distribution with Cellular Resolution in Nondissected Murine Lungs. <i>ACS Nano</i> , 2019, 13, 1029-1041.	14.6	42
63	Levels of the Autophagy-Related 5 Protein Affect Progression and Metastasis of Pancreatic Tumors in Mice. <i>Gastroenterology</i> , 2019, 156, 203-217.e20.	1.3	50
64	Fluorescent blood-brain barrier tracing shows intact leptin transport in obese mice. <i>International Journal of Obesity</i> , 2019, 43, 1305-1318.	3.4	64
65	In situ metabolomics of aldosterone-producing adenomas. <i>JCI Insight</i> , 2019, 4, .	5.0	27
66	PITX2 DNA-methylation predicts response to anthracycline-based adjuvant chemotherapy in triple-negative breast cancer patients. <i>International Journal of Oncology</i> , 2018, 52, 755-767.	3.3	15
67	A genomic copy number signature predicts radiation exposure in post-Chernobyl breast cancer. <i>International Journal of Cancer</i> , 2018, 143, 1505-1515.	5.1	10
68	Selenium Utilization by GPX4 Is Required to Prevent Hydroperoxide-Induced Ferroptosis. <i>Cell</i> , 2018, 172, 409-422.e21.	28.9	920
69	hIAPP forms toxic oligomers in plasma. <i>Chemical Communications</i> , 2018, 54, 5426-5429.	4.1	28
70	High-Resolution Tissue Mass Spectrometry Imaging Reveals a Refined Functional Anatomy of the Human Adult Adrenal Gland. <i>Endocrinology</i> , 2018, 159, 1511-1524.	2.8	37
71	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
72	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

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73	Expression of miRNA-26b-5p and its target TRPS1 is associated with radiation exposure in postmenopausal breast cancer. International Journal of Cancer, 2018, 142, 573-583.	5.1	29
74	Correlative mass spectrometry imaging, applying time-of-flight secondary ion mass spectrometry and atmospheric pressure matrix-assisted laser desorption/ionization to a single tissue section. Rapid Communications in Mass Spectrometry, 2018, 32, 159-166.	1.5	35
75	A prognostic mRNA expression signature of four 16q24.3 genes in radio(chemo)therapy-treated head and neck squamous cell carcinoma (HNSCC). Molecular Oncology, 2018, 12, 2085-2101.	4.6	21
76	Round robin study of formalin-fixed paraffin-embedded tissues in mass spectrometry imaging. Analytical and Bioanalytical Chemistry, 2018, 410, 5969-5980.	3.7	39
77	Postoperative (chemo) radiation in patients with squamous cell cancers of the head and neck – clinical results from the cohort of the clinical cooperation group “Personalized Radiotherapy in Head and Neck Cancer”. Radiation Oncology, 2018, 13, 123.	2.7	24
78	Pharmacometabolic response to pirfenidone in pulmonary fibrosis detected by MALDI-FTICR-MSI. European Respiratory Journal, 2018, 52, 1702314.	6.7	26
79	Increased Extracellular Vesicles Mediate WNT5A Signaling in Idiopathic Pulmonary Fibrosis. American Journal of Respiratory and Critical Care Medicine, 2018, 198, 1527-1538.	5.6	127
80	Chronic d-serine supplementation impairs insulin secretion. Molecular Metabolism, 2018, 16, 191-202.	6.5	29
81	Molecular imaging of myocardial infarction with Gadofluorine P – A combined magnetic resonance and mass spectrometry imaging approach. Heliyon, 2018, 4, e00606.	3.2	12
82	Abstract A068: Metabolic signature in lethal vs. nonlethal prostate cancer. , 2018, , .		0
83	Pharmacometabolic effect of pirfenidone treatment in IPF detected by high resolution MALDI-FTICR imaging. , 2018, , .		0
84	A Novel Antifibrotic Mechanism of Nintedanib and Pirfenidone. Inhibition of Collagen Fibril Assembly. American Journal of Respiratory Cell and Molecular Biology, 2017, 57, 77-90.	2.9	125
85	Imaging of pH in vivo using hyperpolarized <sup>13</sup> C-labelled zymonic acid. Nature Communications, 2017, 8, 15126.	12.8	94
86	N-acyl Taurines and Acylcarnitines Cause an Imbalance in Insulin Synthesis and Secretion Provoking $\beta$ 2 Cell Dysfunction in Type 2 Diabetes. Cell Metabolism, 2017, 25, 1334-1347.e4.	16.2	87
87	Expression patterns of programmed death-ligand 1 in esophageal adenocarcinomas: comparison between primary tumors and metastases. Cancer Immunology, Immunotherapy, 2017, 66, 777-786.	4.2	20
88	The redox environment triggers conformational changes and aggregation of hIAPP in Type II Diabetes. Scientific Reports, 2017, 7, 44041.	3.3	75
89	Integrin-Targeted Hybrid Fluorescence Molecular Tomography/X-ray Computed Tomography for Imaging Tumor Progression and Early Response in Non-Small Cell Lung Cancer. Neoplasia, 2017, 19, 8-16.	5.3	17
90	Plasmin(ogen) serves as a favorable biomarker for prediction of survival in advanced high-grade serous ovarian cancer. Biological Chemistry, 2017, 398, 765-773.	2.5	13

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91	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
92	Investigating the influence of standard staining procedures on the copper distribution and concentration in Wilson's disease liver samples by laser ablation-inductively coupled plasma-mass spectrometry. <i>Journal of Trace Elements in Medicine and Biology</i> , 2017, 44, 71-75.	3.0	13
93	Tissue kallikrein-related peptidase 4 (KLK4), a novel biomarker in triple-negative breast cancer. <i>Biological Chemistry</i> , 2017, 398, 1151-1164.	2.5	17
94	The target landscape of clinical kinase drugs. <i>Science</i> , 2017, 358, .	12.6	609
95	ACSL4 dictates ferroptosis sensitivity by shaping cellular lipid composition. <i>Nature Chemical Biology</i> , 2017, 13, 91-98.	8.0	2,069
96	Threshold Analysis and Biodistribution of Fluorescently Labeled Bevacizumab in Human Breast Cancer. <i>Cancer Research</i> , 2017, 77, 623-631.	0.9	34
97	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
98	Stabilization and structural analysis of a membrane-associated hIAPP aggregation intermediate. <i>ELife</i> , 2017, 6, .	6.0	61
99	Platelet GPIIb supports initial pulmonary retention but inhibits subsequent proliferation of melanoma cells during hematogenic metastasis. <i>PLoS ONE</i> , 2017, 12, e0172788.	2.5	25
100	In Situ Metabolomics in Cancer by Mass Spectrometry Imaging. <i>Advances in Cancer Research</i> , 2017, 134, 117-132.	5.0	28
101	Steroid metabolome analysis reveals prevalent glucocorticoid excess in primary aldosteronism. <i>JCI Insight</i> , 2017, 2, .	5.0	187
102	Functional imaging in combination with mutation status aids prediction of response to inhibiting B-cell receptor signaling in lymphoma. <i>Oncotarget</i> , 2017, 8, 78917-78929.	1.8	3
103	Fluorescently labeled bevacizumab in human breast cancer: defining the classification threshold. <i>Proceedings of SPIE</i> , 2017, , .	0.8	0
104	Inside front cover: In situ detection of histone variants and modifications in mouse brain using imaging mass spectrometry. <i>Proteomics</i> , 2016, 16, NA.	2.2	0
105	In situ detection of histone variants and modifications in mouse brain using imaging mass spectrometry. <i>Proteomics</i> , 2016, 16, 437-447.	2.2	19
106	High-Resolution Multispectral Optoacoustic Tomography of the Vascularization and Constitutive Hypoxemia of Cancerous Tumors. <i>Neoplasia</i> , 2016, 18, 459-467.	5.3	23
107	Disulfide HMGB1 derived from platelets coordinates venous thrombosis in mice. <i>Blood</i> , 2016, 128, 2435-2449.	1.4	219
108	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

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109	Spatial Autocorrelation in Mass Spectrometry Imaging. <i>Analytical Chemistry</i> , 2016, 88, 5871-5878.	6.5	29
110	Deep tissue imaging: a review from a preclinical cancer research perspective. <i>Histochemistry and Cell Biology</i> , 2016, 146, 781-806.	1.7	50
111	Tumor Uptake of Anti-CD20 Fabs Depends on Tumor Perfusion. <i>Journal of Nuclear Medicine</i> , 2016, 57, 1971-1977.	5.0	15
112	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
113	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
114	uPAR enhances malignant potential of triple-negative breast cancer by directly interacting with uPA and IGF1R. <i>BMC Cancer</i> , 2016, 16, 615.	2.6	26
115	Proton Minibeam Radiation Therapy Reduces Side Effects in an In Vivo Mouse Ear Model. <i>International Journal of Radiation Oncology Biology Physics</i> , 2016, 95, 234-241.	0.8	82
116	Bezafibrate Improves Insulin Sensitivity and Metabolic Flexibility in STZ-Induced Diabetic Mice. <i>Diabetes</i> , 2016, 65, 2540-2552.	0.6	35
117	Pharmacokinetic and pharmacometabolomic study of pirfenidone in normal mouse tissues using high mass resolution MALDI-FTICR-mass spectrometry imaging. <i>Histochemistry and Cell Biology</i> , 2016, 145, 201-211.	1.7	43
118	Elemental bioimaging and speciation analysis for the investigation of Wilson's disease using $\mu$ XRF and XANES. <i>Metallomics</i> , 2016, 8, 648-653.	2.4	35
119	Element bioimaging of liver needle biopsy specimens from patients with Wilson's disease by laser ablation-inductively coupled plasma-mass spectrometry. <i>Journal of Trace Elements in Medicine and Biology</i> , 2016, 35, 97-102.	3.0	31
120	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
121	Modeling Therapy Response and Spatial Tissue Distribution of Erlotinib in Pancreatic Cancer. <i>Molecular Cancer Therapeutics</i> , 2016, 15, 1145-1152.	4.1	27
122	Sphingomyelin Synthase 1 Is Essential for Male Fertility in Mice. <i>PLoS ONE</i> , 2016, 11, e0164298.	2.5	19
123	Cyr61 and YB-1 are novel interacting partners of uPAR and elevate the malignancy of triple-negative breast cancer. <i>Oncotarget</i> , 2016, 7, 44062-44075.	1.8	7
124	LSC Abstract "Non-canonical WNT signaling is mediated by extracellular vesicles in pulmonary fibrosis. , 2016, , .		0
125	LSC Abstract "Non-canonical WNT signaling is mediated by extracellular vesicles in pulmonary fibrosis. , 2016, , .		0
126	Nintedanib and pirfenidone inhibit collagen synthesis and maturation at several regulatory levels. , 2016, , .		0



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127	Assessment of kallikrein-related peptidase 5 (KLK5) protein expression in tumor tissue of advanced ovarian cancer patients by immunohistochemistry and ELISA: correlation with clinical outcome. <i>American Journal of Cancer Research</i> , 2016, 6, 61-70.	1.4	5
128	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
129	Characterization of Magnetic Viral Complexes for Targeted Delivery in Oncology. <i>Theranostics</i> , 2015, 5, 667-685.	10.0	40
130	Supremacy of modern morphometry in typing renal oncocytoma and malignant look-alikes. <i>Histochemistry and Cell Biology</i> , 2015, 144, 147-156.	1.7	12
131	Benchmark datasets for 3D MALDI- and DESI-imaging mass spectrometry. <i>GigaScience</i> , 2015, 4, 20.	6.4	53
132	High-resolution MALDI mass spectrometric imaging of lipids in the mammalian retina. <i>Histochemistry and Cell Biology</i> , 2015, 143, 453-462.	1.7	26
133	Image analysis of immunohistochemistry is superior to visual scoring as shown for patient outcome of esophageal adenocarcinoma. <i>Histochemistry and Cell Biology</i> , 2015, 143, 1-9.	1.7	50
134	Spatially Resolved Quantification of Gadolinium(III)-Based Magnetic Resonance Agents in Tissue by MALDI Imaging Mass Spectrometry after In Vivo MRI. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 4279-4283.	13.8	24
135	High fat diet-induced modifications in membrane lipid and mitochondrial-membrane protein signatures precede the development of hepatic insulin resistance in mice. <i>Molecular Metabolism</i> , 2015, 4, 39-50.	6.5	34
136	Impaired Autophagy Induces Chronic Atrophic Pancreatitis in Mice via Sex- and Nutrition-Dependent Processes. <i>Gastroenterology</i> , 2015, 148, 626-638.e17.	1.3	130
137	<i>De novo</i> discovery of phenotypic intratumour heterogeneity using imaging mass spectrometry. <i>Journal of Pathology</i> , 2015, 235, 3-13.	4.5	116
138	MALDI Imaging mass spectrometry: current frontiers and perspectives in pathology research and practice. <i>Laboratory Investigation</i> , 2015, 95, 422-431.	3.7	334
139	Model Matters: Differences in Orthotopic Rat Hepatocellular Carcinoma Physiology Determine Therapy Response to Sorafenib. <i>Clinical Cancer Research</i> , 2015, 21, 4440-4450.	7.0	25
140	Expression of a Catalytically Inactive Mutant Form of Glutathione Peroxidase 4 (Gpx4) Confers a Dominant-negative Effect in Male Fertility. <i>Journal of Biological Chemistry</i> , 2015, 290, 14668-14678.	3.4	69
141	Epstein-Barr Virus in Gastro-Esophageal Adenocarcinomas – Single Center Experiences in the Context of Current Literature. <i>Frontiers in Oncology</i> , 2015, 5, 73.	2.8	36
142	Clinical Significance of NOTCH1 and NOTCH2 Expression in Gastric Carcinomas: An Immunohistochemical Study. <i>Frontiers in Oncology</i> , 2015, 5, 94.	2.8	19
143	Knocking Down of Isoprene Emission Modifies the Lipid Matrix of Thylakoid Membranes and Influences the Chloroplast Ultrastructure in Poplar. <i>Plant Physiology</i> , 2015, 168, 859-870.	4.8	37
144	Calcineurin Links Mitochondrial Elongation with Energy Metabolism. <i>Cell Metabolism</i> , 2015, 22, 838-850.	16.2	71

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145	Optical mesoscopy without the scatter: broadband multispectral optoacoustic mesoscopy. Biomedical Optics Express, 2015, 6, 3134.	2.9	14
146	Heart-specific Knockout of the Mitochondrial Thioredoxin Reductase ( <i>Txnrd2</i> ) Induces Metabolic and Contractile Dysfunction in the Aging Myocardium. Journal of the American Heart Association, 2015, 4, .	3.7	54
147	RNAi-mediated downregulation of poplar plasma membrane intrinsic proteins (PIPs) changes plasma membrane proteome composition and affects leaf physiology. Journal of Proteomics, 2015, 128, 321-332.	2.4	19
148	Early recognition of lung cancer by integrin targeted imaging in <i>Kras</i> mouse model. International Journal of Cancer, 2015, 137, 1107-1118.	5.1	10
149	CLIP2 as radiation biomarker in papillary thyroid carcinoma. Oncogene, 2015, 34, 3917-3925.	5.9	41
150	Distribution and quantification of irinotecan and its active metabolite SN-38 in colon cancer murine model systems using MALDI MSI. Analytical and Bioanalytical Chemistry, 2015, 407, 2107-2116.	3.7	84
151	Discussion point: reporting guidelines for mass spectrometry imaging. Analytical and Bioanalytical Chemistry, 2015, 407, 2035-2045.	3.7	51
152	Opposing role of Notch1 and Notch2 in a <i>Kras</i> G12D-driven murine non-small cell lung cancer model. Oncogene, 2015, 34, 578-588.	5.9	67
153	uPA receptor and its interaction partners: Impact as potential therapeutic targets in triple-negative breast cancer.. Journal of Clinical Oncology, 2015, 33, 150-150.	1.6	1
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302	Molecular Genetic Changes in Metastatic Primary Barrett's Adenocarcinoma and Related Lymph Node Metastases: Comparison with Nonmetastatic Barrett's Adenocarcinoma. <i>Modern Pathology</i> , 2000, 13, 814-824.	5.5	33
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304	Microdissection of Tissue Sections: Application to the Molecular Genetic Characterisation of Premalignant Lesions. <i>Pathobiology</i> , 2000, 68, 9-17.	3.8	17
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306	Heterogeneous Chromosomal Aberrations in Intraductal Breast Lesions Adjacent to Invasive Carcinoma. <i>Analytical Cellular Pathology</i> , 2000, 20, 17-24.	2.1	33

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308	Chromosomal Imbalances in Barrett's Adenocarcinoma and the Metaplasia-Dysplasia-Carcinoma Sequence. <i>American Journal of Pathology</i> , 2000, 156, 555-566.	3.8	144
309	Accumulation of Chromosomal Imbalances From Intraductal Proliferative Lesions to Adjacent In Situ and Invasive Ductal Breast Cancer. <i>Diagnostic Molecular Pathology</i> , 2000, 9, 14-19.	2.1	71
310	Extensive ductal carcinoma In situ with small foci of invasive ductal carcinoma: Evidence of genetic resemblance by CGH. <i>International Journal of Cancer</i> , 2000, 85, 82.	5.1	9
311	Intratumoral Heterogeneity in Breast Carcinoma Revealed by Laser-Microdissection and Comparative Genomic Hybridization. <i>Cancer Genetics and Cytogenetics</i> , 1999, 110, 94-102.	1.0	122
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