

Axel Karl Walch

List of Publications by Year in descending order

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Version: 2024-02-01

315
papers

22,491
citations

14614

66
h-index

12233

133
g-index

328
all docs

328
docs citations

328
times ranked

29244
citing authors

#	ARTICLE	IF	CITATIONS
1	Inactivation of the ferroptosis regulator Gpx4 triggers acute renal failure in mice. <i>Nature Cell Biology</i> , 2014, 16, 1180-1191.	4.6	2,241
2	ACSL4 dictates ferroptosis sensitivity by shaping cellular lipid composition. <i>Nature Chemical Biology</i> , 2017, 13, 91-98.	3.9	2,069
3	Monocytes, neutrophils, and platelets cooperate to initiate and propagate venous thrombosis in mice in vivo. <i>Journal of Experimental Medicine</i> , 2012, 209, 819-835.	4.2	1,441
4	Selenium Utilization by GPX4 Is Required to Prevent Hydroperoxide-Induced Ferroptosis. <i>Cell</i> , 2018, 172, 409-422.e21.	13.5	920
5	The target landscape of clinical kinase drugs. <i>Science</i> , 2017, 358, .	6.0	609
6	Quantitative Gene Expression Analysis in Microdissected Archival Formalin-Fixed and Paraffin-Embedded Tumor Tissue. <i>American Journal of Pathology</i> , 2001, 158, 419-429.	1.9	461
7	HER2 diagnostics in gastric cancer—guideline validation and development of standardized immunohistochemical testing. <i>Virchows Archiv Fur Pathologische Anatomie Und Physiologie Und Fur Klinische Medizin</i> , 2010, 457, 299-307.	1.4	431
8	MALDI Imaging mass spectrometry: current frontiers and perspectives in pathology research and practice. <i>Laboratory Investigation</i> , 2015, 95, 422-431.	1.7	334
9	MALDI imaging mass spectrometry for direct tissue analysis: a new frontier for molecular histology. <i>Histochemistry and Cell Biology</i> , 2008, 130, 421-34.	0.8	310
10	Classification of HER2 Receptor Status in Breast Cancer Tissues by MALDI Imaging Mass Spectrometry. <i>Journal of Proteome Research</i> , 2010, 9, 1854-1863.	1.8	256
11	Mitochondrial glutathione peroxidase 4 disruption causes male infertility. <i>FASEB Journal</i> , 2009, 23, 3233-3242.	0.2	251
12	Disulfide HMGB1 derived from platelets coordinates venous thrombosis in mice. <i>Blood</i> , 2016, 128, 2435-2449.	0.6	219
13	Normalization in MALDI-TOF imaging datasets of proteins: practical considerations. <i>Analytical and Bioanalytical Chemistry</i> , 2011, 401, 167-181.	1.9	190
14	High-mass-resolution MALDI mass spectrometry imaging of metabolites from formalin-fixed paraffin-embedded tissue. <i>Nature Protocols</i> , 2016, 11, 1428-1443.	5.5	190
15	Steroid metabolome analysis reveals prevalent glucocorticoid excess in primary aldosteronism. <i>JCI Insight</i> , 2017, 2, .	2.3	187
16	Aurora Kinase A Messenger RNA Overexpression Is Correlated with Tumor Progression and Shortened Survival in Head and Neck Squamous Cell Carcinoma. <i>Clinical Cancer Research</i> , 2006, 12, 5136-5141.	3.2	176
17	Inflammation and mitochondrial fatty acid β -oxidation link obesity to early tumor promotion. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009, 106, 3354-3359.	3.3	174
18	Distribution Pattern of Inhaled Ultrafine Gold Particles in the Rat Lung. <i>Inhalation Toxicology</i> , 2006, 18, 733-740.	0.8	173

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19	Platelets contribute to postnatal occlusion of the ductus arteriosus. <i>Nature Medicine</i> , 2010, 16, 75-82.	15.2	158
20	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.	3.3	154
21	Typical and Atypical Carcinoid Tumors of the Lung Are Characterized by 11q Deletions as Detected by Comparative Genomic Hybridization. <i>American Journal of Pathology</i> , 1998, 153, 1089-1098.	1.9	151
22	Evaluation of α - β -Integrin-Targeted Positron Emission Tomography Tracer ^{18}F -Galacto-RGD for Imaging of Vascular Inflammation in Atherosclerotic Mice. <i>Circulation: Cardiovascular Imaging</i> , 2009, 2, 331-338.	1.3	145
23	Chromosomal Imbalances in Barrett's Adenocarcinoma and the Metaplasia-Dysplasia-Carcinoma Sequence. <i>American Journal of Pathology</i> , 2000, 156, 555-566.	1.9	144
24	Extracellular Matrix Metalloproteinase Inducer (CD147) Is a Novel Receptor on Platelets, Activates Platelets, and Augments Nuclear Factor κ B-Dependent Inflammation in Monocytes. <i>Circulation Research</i> , 2008, 102, 302-309.	2.0	138
25	Impaired Autophagy Induces Chronic Atrophic Pancreatitis in Mice via Sex- and Nutrition-Dependent Processes. <i>Gastroenterology</i> , 2015, 148, 626-638.e17.	0.6	130
26	Patch repair of deep wounds by mobilized fascia. <i>Nature</i> , 2019, 576, 287-292.	13.7	129
27	Bioengineered bacterial vesicles as biological nano-heaters for optoacoustic imaging. <i>Nature Communications</i> , 2019, 10, 1114.	5.8	128
28	MALDI Imaging Identifies Prognostic Seven-Protein Signature of Novel Tissue Markers in Intestinal-Type Gastric Cancer. <i>American Journal of Pathology</i> , 2011, 179, 2720-2729.	1.9	127
29	Combined Deficiency in Glutathione Peroxidase 4 and Vitamin E Causes Multiorgan Thrombus Formation and Early Death in Mice. <i>Circulation Research</i> , 2013, 113, 408-417.	2.0	127
30	Increased Extracellular Vesicles Mediate WNT5A Signaling in Idiopathic Pulmonary Fibrosis. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2018, 198, 1527-1538.	2.5	127
31	A Novel Antifibrotic Mechanism of Nintedanib and Pirfenidone. Inhibition of Collagen Fibril Assembly. <i>American Journal of Respiratory Cell and Molecular Biology</i> , 2017, 57, 77-90.	1.4	125
32	Tumor Classification of Six Common Cancer Types Based on Proteomic Profiling by MALDI Imaging. <i>Journal of Proteome Research</i> , 2012, 11, 1996-2003.	1.8	123
33	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.	2.1	123
34	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
35	Exploring Three-Dimensional Matrix-Assisted Laser Desorption/Ionization Imaging Mass Spectrometry Data: Three-Dimensional Spatial Segmentation of Mouse Kidney. <i>Analytical Chemistry</i> , 2012, 84, 6079-6087.	3.2	122
36	<i>De novo</i> discovery of phenotypic intratumour heterogeneity using imaging mass spectrometry. <i>Journal of Pathology</i> , 2015, 235, 3-13.	2.1	116

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37	Molecular Analysis of HER2 Signaling in Human Breast Cancer by Functional Protein Pathway Activation Mapping. <i>Clinical Cancer Research</i> , 2012, 18, 6426-6435.	3.2	110
38	MALDI imaging mass spectrometry for direct tissue analysis: technological advancements and recent applications. <i>Histochemistry and Cell Biology</i> , 2011, 136, 227-244.	0.8	108
39	Tissue-based proteomics reveals FXYD3, S100A11 and GSTM3 as novel markers for regional lymph node metastasis in colon cancer. <i>Journal of Pathology</i> , 2012, 228, 459-470.	2.1	107
40	p62 Links β -adrenergic input to mitochondrial function and thermogenesis. <i>Journal of Clinical Investigation</i> , 2013, 123, 469-478.	3.9	107
41	Genomic Alterations and Allelic Imbalances Are Strong Prognostic Predictors in Osteosarcoma. <i>Clinical Cancer Research</i> , 2010, 16, 4256-4267.	3.2	101
42	Mitochondrial Dysfunction and Decrease in Body Weight of a Transgenic Knock-in Mouse Model for TDP-43. <i>Journal of Biological Chemistry</i> , 2014, 289, 10769-10784.	1.6	100
43	Histopathological Classification of Nonneoplastic and Neoplastic Gastrointestinal Submucosal Lesions. <i>Endoscopy</i> , 2005, 37, 630-634.	1.0	99
44	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, 82-86.	2.3	97
45	Imaging of pH in vivo using hyperpolarized ^{13}C -labelled zymonic acid. <i>Nature Communications</i> , 2017, 8, 15126.	5.8	94
46	STAT3 mRNA and protein expression in colorectal cancer: effects on STAT3-inducible targets linked to cell survival and proliferation. <i>Journal of Clinical Pathology</i> , 2006, 60, 173-179.	1.0	92
47	MALDI imaging mass spectrometry reveals COX7A2, TAGLN2 and S100-A10 as novel prognostic markers in Barrett's adenocarcinoma. <i>Journal of Proteomics</i> , 2012, 75, 4693-4704.	1.2	90
48	N-acyl Taurines and Acylcarnitines Cause an Imbalance in Insulin Synthesis and Secretion Provoking β Cell Dysfunction in Type 2 Diabetes. <i>Cell Metabolism</i> , 2017, 25, 1334-1347.e4.	7.2	87
49	Atlas of exercise metabolism reveals time-dependent signatures of metabolic homeostasis. <i>Cell Metabolism</i> , 2022, 34, 329-345.e8.	7.2	86
50	Immunocytochemical and Ultrastructural Evidence of Glial Cells and Hyalocytes in Internal Limiting Membrane Specimens of Idiopathic Macular Holes. , 2011, 52, 7822.		84
51	Mutations in the mitochondrial thioredoxin reductase gene TXNRD2 cause dilated cardiomyopathy. <i>European Heart Journal</i> , 2011, 32, 1121-1133.	1.0	84
52	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.	1.9	84
53	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.	0.4	82
54	Gene-by-Sex Interactions in Mitochondrial Functions and Cardio-Metabolic Traits. <i>Cell Metabolism</i> , 2019, 29, 932-949.e4.	7.2	79

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55	Cadherin-2 Controls Directional Chain Migration of Cerebellar Granule Neurons. PLoS Biology, 2009, 7, e1000240.	2.6	78
56	MALDI imaging mass spectrometry in cancer research: Combining proteomic profiling and histological evaluation. Clinical Biochemistry, 2013, 46, 539-545.	0.8	77
57	PTK (protein tyrosine kinase)-6 and HER2 and 4, but not HER1 and 3 predict long-term survival in breast carcinomas. British Journal of Cancer, 2007, 96, 801-807.	2.9	75
58	The redox environment triggers conformational changes and aggregation of hIAPP in Type II Diabetes. Scientific Reports, 2017, 7, 44041.	1.6	75
59	Efficient Isolation of Pure and Functional Mitochondria from Mouse Tissues Using Automated Tissue Disruption and Enrichment with Anti-TOM22 Magnetic Beads. PLoS ONE, 2013, 8, e82392.	1.1	74
60	Enhanced Activation of Epidermal Growth Factor Receptor Caused by Tumor-Derived E-Cadherin Mutations. Cancer Research, 2008, 68, 707-714.	0.4	72
61	Multicenter Matrix-Assisted Laser Desorption/Ionization Mass Spectrometry Imaging (MALDI MSI) Identifies Proteomic Differences in Breast-Cancer-Associated Stroma. Journal of Proteome Research, 2014, 13, 4730-4738.	1.8	72
62	Genetic heterogeneity in a prostatic carcinoma and associated prostatic intraepithelial neoplasia as demonstrated by combined use of laser-microdissection, degenerate oligonucleotide primed PCR and comparative genomic hybridization. Virchows Archiv Fur Pathologische Anatomie Und Physiologie Und Fur Klinische Medizin, 1998, 433, 297-304.	1.4	71
63	Combined analysis of Rac1, IQGAP1, Tiam1 and E-cadherin expression in gastric cancer. Modern Pathology, 2008, 21, 544-552.	2.9	71
64	Classification of HER2/neu Status in Gastric Cancer Using a Breast-Cancer Derived Proteome Classifier. Journal of Proteome Research, 2010, 9, 6317-6322.	1.8	71
65	Clinical response to chemotherapy in oesophageal adenocarcinoma patients is linked to defects in mitochondria. Journal of Pathology, 2013, 230, 410-419.	2.1	71
66	Calcineurin Links Mitochondrial Elongation with Energy Metabolism. Cell Metabolism, 2015, 22, 838-850.	7.2	71
67	Accumulation of Chromosomal Imbalances From Intraductal Proliferative Lesions to Adjacent In Situ and Invasive Ductal Breast Cancer. Diagnostic Molecular Pathology, 2000, 9, 14-19.	2.1	71
68	Comprehensive Identification of Proteins from MALDI Imaging. Molecular and Cellular Proteomics, 2013, 12, 2901-2910.	2.5	69
69	Expression of a Catalytically Inactive Mutant Form of Glutathione Peroxidase 4 (Gpx4) Confers a Dominant-negative Effect in Male Fertility. Journal of Biological Chemistry, 2015, 290, 14668-14678.	1.6	69
70	Revisiting Rat Spermatogenesis with MALDI Imaging at 20-1/4m Resolution. Molecular and Cellular Proteomics, 2011, 10, M110.005991.	2.5	68
71	Proteomic Analysis of PAXgene-Fixed Tissues. Journal of Proteome Research, 2010, 9, 5188-5196.	1.8	67
72	Opposing role of Notch1 and Notch2 in a KrasG12D-driven murine non-small cell lung cancer model. Oncogene, 2015, 34, 578-588.	2.6	67

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73	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.	3.2	67
74	Effects of neoadjuvant radio-chemotherapy on 18F-FDG-PET in esophageal carcinoma. <i>European Journal of Surgical Oncology</i> , 2004, 30, 544-550.	0.5	65
75	Quantitative Chemical Proteomics Reveals New Potential Drug Targets in Head and Neck Cancer. <i>Molecular and Cellular Proteomics</i> , 2011, 10, M111.011635.	2.5	65
76	Fluorescent blood-brain barrier tracing shows intact leptin transport in obese mice. <i>International Journal of Obesity</i> , 2019, 43, 1305-1318.	1.6	64
77	Predictive Value of Aurora-A/STK15 Expression for Late Stage Epithelial Ovarian Cancer Patients Treated by Adjuvant Chemotherapy. <i>Clinical Cancer Research</i> , 2007, 13, 4083-4091.	3.2	63
78	Cytopathicity of <i>Chlamydia</i> is largely reproduced by expression of a single chlamydial protease. <i>Journal of Cell Biology</i> , 2008, 182, 117-127.	2.3	63
79	Qualitative and quantitative mass spectrometry imaging of drugs and metabolites in tissue at therapeutic levels. <i>Histochemistry and Cell Biology</i> , 2013, 140, 93-104.	0.8	63
80	Progressive stages of mitochondrial destruction caused by cell toxic bile salts. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2013, 1828, 2121-2133.	1.4	62
81	Chromosomal changes during development and progression of prostate adenocarcinomas. <i>British Journal of Cancer</i> , 2001, 84, 202-208.	2.9	61
82	Multispectral optoacoustic tomography of myocardial infarction. <i>Photoacoustics</i> , 2013, 1, 3-8.	4.4	61
83	Stabilization and structural analysis of a membrane-associated hIAPP aggregation intermediate. <i>ELife</i> , 2017, 6, .	2.8	61
84	Her-2/neu Gene Amplification, Elevated mRNA Expression, and Protein Overexpression in the Metaplasia-Dysplasia-Adenocarcinoma Sequence of Barrett's Esophagus. <i>Laboratory Investigation</i> , 2001, 81, 791-801.	1.7	59
85	Biomarker analysis of cetuximab plus oxaliplatin/leucovorin/5-fluorouracil in first-line metastatic gastric and oesophago-gastric junction cancer: results from a phase II trial of the Arbeitsgemeinschaft Internistische Onkologie (AIO). <i>BMC Cancer</i> , 2011, 11, 509.	1.1	58
86	MRI-compatible pipeline for three-dimensional MALDI imaging mass spectrometry using PAXgene fixation. <i>Journal of Proteomics</i> , 2013, 90, 52-60.	1.2	58
87	Array-based comparative genomic hybridization for the detection of DNA sequence copy number changes in Barrett's adenocarcinoma. <i>Journal of Pathology</i> , 2004, 203, 780-788.	2.1	56
88	S100-A10, thioredoxin, and S100-A6 as biomarkers of papillary thyroid carcinoma with lymph node metastasis identified by MALDI Imaging. <i>Journal of Molecular Medicine</i> , 2012, 90, 163-174.	1.7	56
89	MiR-221/222 differentiate prognostic groups in advanced breast cancers and influence cell invasion. <i>British Journal of Cancer</i> , 2013, 109, 2714-2723.	2.9	54
90	Heart-specific Knockout of the Mitochondrial Thioredoxin Reductase (<i>Txnrd2</i>) Induces Metabolic and Contractile Dysfunction in the Aging Myocardium. <i>Journal of the American Heart Association</i> , 2015, 4, .	1.6	54

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91	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.	0.8	54
92	TO-PRO-3 is an optimal fluorescent dye for nuclear counterstaining in dual-colour FISH on paraffin sections. <i>Histochemistry and Cell Biology</i> , 2001, 115, 293-299.	0.8	53
93	Differential KIT expression in histological subtypes of adenoid cystic carcinoma (ACC) of the salivary gland. <i>Oral Oncology</i> , 2005, 41, 934-939.	0.8	53
94	Benchmark datasets for 3D MALDI- and DESI-imaging mass spectrometry. <i>GigaScience</i> , 2015, 4, 20.	3.3	53
95	MALDI Imaging Mass Spectrometry for In Situ Proteomic Analysis of Preneoplastic Lesions in Pancreatic Cancer. <i>PLoS ONE</i> , 2012, 7, e39424.	1.1	52
96	Significance of HER2 Low-Level Copy Gain in Barrett's Cancer: Implications for Fluorescence In situ Hybridization Testing in Tissues. <i>Clinical Cancer Research</i> , 2007, 13, 5115-5123.	3.2	51
97	High number of CD45RO+ tumor infiltrating lymphocytes is an independent prognostic factor in non-metastasized (stage I-IIA) esophageal adenocarcinoma. <i>BMC Cancer</i> , 2010, 10, 608.	1.1	51
98	Discussion point: reporting guidelines for mass spectrometry imaging. <i>Analytical and Bioanalytical Chemistry</i> , 2015, 407, 2035-2045.	1.9	51
99	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.	0.8	50
100	Deep tissue imaging: a review from a preclinical cancer research perspective. <i>Histochemistry and Cell Biology</i> , 2016, 146, 781-806.	0.8	50
101	Levels of the Autophagy-Related 5 Protein Affect Progression and Metastasis of Pancreatic Tumors in Mice. <i>Gastroenterology</i> , 2019, 156, 203-217.e20.	0.6	50
102	The Intratumoral Heterogeneity Reflects the Intertumoral Subtypes of Glioblastoma Multiforme: A Regional Immunohistochemistry Analysis. <i>Frontiers in Oncology</i> , 2020, 10, 494.	1.3	50
103	A Fibrin Glue Composition as Carrier for Nucleic Acid Vectors. <i>Pharmaceutical Research</i> , 2008, 25, 2946-2962.	1.7	49
104	Tissue microdissection techniques in quantitative genome and gene expression analyses. <i>Histochemistry and Cell Biology</i> , 2001, 115, 269-276.	0.8	48
105	Approaching MALDI molecular imaging for clinical proteomic research: current state and fields of application. <i>Expert Review of Proteomics</i> , 2010, 7, 927-941.	1.3	47
106	Morphometric Cell Classification for Single-Cell MALDI-Mass Spectrometry Imaging. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 17447-17450.	7.2	47
107	Diet-induced alteration of intestinal stem cell function underlies obesity and prediabetes in mice. <i>Nature Metabolism</i> , 2021, 3, 1202-1216.	5.1	47
108	Flattop regulates basal body docking and positioning in mono- and multiciliated cells. <i>ELife</i> , 2014, 3, .	2.8	47

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109	Prognostic value of protein tyrosine kinase 6 (PTK6) for long-term survival of breast cancer patients. <i>British Journal of Cancer</i> , 2008, 99, 1089-1095.	2.9	45
110	Clinical Significance of the Costimulatory Molecule B7-H1 in Barrett Carcinoma. <i>Annals of Thoracic Surgery</i> , 2011, 91, 1025-1031.	0.7	45
111	MALDI-MS tissue imaging identification of biliverdin reductase B overexpression in prostate cancer. <i>Journal of Proteomics</i> , 2013, 91, 500-514.	1.2	45
112	Assessment of ErbB2 (Her2) in oesophageal adenocarcinomas: summary of a revised immunohistochemical evaluation system, bright field double in situ hybridisation and fluorescence in situ hybridisation. <i>Modern Pathology</i> , 2011, 24, 908-916.	2.9	44
113	Distinct Chromosomal Imbalances in Nonpolypoid and Polypoid Colorectal Adenomas Indicate Different Genetic Pathways in the Development of Colorectal Neoplasms. <i>American Journal of Pathology</i> , 2003, 163, 287-294.	1.9	43
114	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.	0.8	43
115	In vivo imaging of CT26 mouse tumours by using cmHsp70.1 monoclonal antibody. <i>Journal of Cellular and Molecular Medicine</i> , 2011, 15, 874-887.	1.6	42
116	Optoacoustic Imaging and Staging of Inflammation in a Murine Model of Arthritis. <i>Arthritis and Rheumatology</i> , 2014, 66, 2071-2078.	2.9	42
117	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.	7.3	42
118	Glutathione peroxidase 4 and vitamin E control reticulocyte maturation, stress erythropoiesis and iron homeostasis. <i>Haematologica</i> , 2020, 105, 937-950.	1.7	42
119	Post-surgical adhesions are triggered by calcium-dependent membrane bridges between mesothelial surfaces. <i>Nature Communications</i> , 2020, 11, 3068.	5.8	42
120	Coamplification and coexpression of GRB7 and ERBB2 is found in high grade intraepithelial neoplasia and in invasive Barrett's carcinoma. <i>International Journal of Cancer</i> , 2004, 112, 747-753.	2.3	41
121	The impact of Cysteine-Rich Intestinal Protein 1 (CRIP1) in human breast cancer. <i>Molecular Cancer</i> , 2013, 12, 28.	7.9	41
122	Assessment of Myocardial Infarction and Postinfarction Scar Remodeling With an Elastin-Specific Magnetic Resonance Agent. <i>Circulation: Cardiovascular Imaging</i> , 2014, 7, 321-329.	1.3	41
123	Novel Approach of MALDI Drug Imaging, Immunohistochemistry, and Digital Image Analysis for Drug Distribution Studies in Tissues. <i>Analytical Chemistry</i> , 2014, 86, 10568-10575.	3.2	41
124	CLIP2 as radiation biomarker in papillary thyroid carcinoma. <i>Oncogene</i> , 2015, 34, 3917-3925.	2.6	41
125	High-resolution metabolite imaging of light and dark treated retina using MALDI-FTICR mass spectrometry. <i>Proteomics</i> , 2014, 14, 913-923.	1.3	40
126	MSiMass List: A Public Database of Identifications for Protein MALDI MS Imaging. <i>Journal of Proteome Research</i> , 2014, 13, 1138-1142.	1.8	40

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127	Characterization of Magnetic Viral Complexes for Targeted Delivery in Oncology. <i>Theranostics</i> , 2015, 5, 667-685.	4.6	40
128	Genome-wide analysis of genetic alterations in Barrett's adenocarcinoma using single nucleotide polymorphism arrays. <i>Laboratory Investigation</i> , 2009, 89, 385-397.	1.7	39
129	Round robin study of formalin-fixed paraffin-embedded tissues in mass spectrometry imaging. <i>Analytical and Bioanalytical Chemistry</i> , 2018, 410, 5969-5980.	1.9	39
130	Active steroid hormone synthesis renders adrenocortical cells highly susceptible to type II ferroptosis induction. <i>Cell Death and Disease</i> , 2020, 11, 192.	2.7	39
131	Analysis of the PTCH coding region in human rhabdomyosarcoma. <i>Human Mutation</i> , 2002, 20, 233-234.	1.1	38
132	Human archival tissues provide a valuable source for the analysis of spatial genome organization. <i>Histochemistry and Cell Biology</i> , 2005, 123, 229-238.	0.8	38
133	Classification of mass-spectrometric data in clinical proteomics using learning vector quantization methods. <i>Briefings in Bioinformatics</i> , 2007, 9, 129-143.	3.2	38
134	Farnesoid X receptor protects human and murine gastric epithelial cells against inflammation-induced damage. <i>Biochemical Journal</i> , 2011, 438, 315-323.	1.7	38
135	Signalling networks associated with urokinase-type plasminogen activator (uPA) and its inhibitor PAI-1 in breast cancer tissues: new insights from protein microarray analysis. <i>Journal of Pathology</i> , 2011, 223, 54-63.	2.1	38
136	Copy number gains on 22q13 in adenoid cystic carcinoma of the salivary gland revealed by comparative genomic hybridization and tissue microarray analysis. <i>Cancer Genetics and Cytogenetics</i> , 2005, 159, 89-95.	1.0	37
137	FLT-PET Is Superior to FDG-PET for Very Early Response Prediction in NPM-ALK-Positive Lymphoma Treated with Targeted Therapy. <i>Cancer Research</i> , 2012, 72, 5014-5024.	0.4	37
138	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.	2.3	37
139	High-Resolution Tissue Mass Spectrometry Imaging Reveals a Refined Functional Anatomy of the Human Adult Adrenal Gland. <i>Endocrinology</i> , 2018, 159, 1511-1524.	1.4	37
140	Distinct cytogenetic alterations in squamous intraepithelial lesions of the cervix revealed by laser-assisted microdissection and comparative genomic hybridization. , 1998, 84, 375-379.		36
141	Stromal cell-associated expression of kallikrein-related peptidase 6 (KLK6) indicates poor prognosis of ovarian cancer patients. <i>Biological Chemistry</i> , 2012, 393, 391-401.	1.2	36
142	Epstein-Barr Virus in Gastro-Esophageal Adenocarcinomas – Single Center Experiences in the Context of Current Literature. <i>Frontiers in Oncology</i> , 2015, 5, 73.	1.3	36
143	Chromosomal Imbalances are Associated with Metastasis-Free Survival in Breast Cancer Patients. <i>Analytical Cellular Pathology</i> , 2002, 24, 77-87.	2.1	35
144	Efficient internalization and intracellular translocation of inhaled gold nanoparticles in rat alveolar macrophages. <i>Nanomedicine</i> , 2012, 7, 855-865.	1.7	35

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145	Bezafibrate Improves Insulin Sensitivity and Metabolic Flexibility in STZ-Induced Diabetic Mice. <i>Diabetes</i> , 2016, 65, 2540-2552.	0.3	35
146	Elemental bioimaging and speciation analysis for the investigation of Wilson's disease using μ XRF and XANES. <i>Metallomics</i> , 2016, 8, 648-653.	1.0	35
147	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. <i>Rapid Communications in Mass Spectrometry</i> , 2018, 32, 159-166.	0.7	35
148	Epidermal growth factor receptor (EGFR) is an independent adverse prognostic factor in esophageal adenocarcinoma patients treated with cisplatin-based neoadjuvant chemotherapy. <i>Oncotarget</i> , 2014, 5, 6620-6632.	0.8	35
149	RET rearrangements in post-Chernobyl papillary thyroid carcinomas with a short latency analysed by interphase FISH. <i>British Journal of Cancer</i> , 2006, 94, 1472-1477.	2.9	34
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