

# 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	Inactivation of the ferroptosis regulator Gpx4 triggers acute renal failure in mice. <i>Nature Cell Biology</i> , 2014, 16, 1180-1191.	10.3	2,241
2	ACSL4 dictates ferroptosis sensitivity by shaping cellular lipid composition. <i>Nature Chemical Biology</i> , 2017, 13, 91-98.	8.0	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.	8.5	1,441
4	Selenium Utilization by GPX4 Is Required to Prevent Hydroperoxide-Induced Ferroptosis. <i>Cell</i> , 2018, 172, 409-422.e21.	28.9	920
5	The target landscape of clinical kinase drugs. <i>Science</i> , 2017, 358, .	12.6	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.	3.8	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.	2.8	431
8	MALDI Imaging mass spectrometry: current frontiers and perspectives in pathology research and practice. <i>Laboratory Investigation</i> , 2015, 95, 422-431.	3.7	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.	1.7	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.	3.7	256
11	Mitochondrial glutathione peroxidase 4 disruption causes male infertility. <i>FASEB Journal</i> , 2009, 23, 3233-3242.	0.5	251
12	Disulfide HMGB1 derived from platelets coordinates venous thrombosis in mice. <i>Blood</i> , 2016, 128, 2435-2449.	1.4	219
13	Normalization in MALDI-TOF imaging datasets of proteins: practical considerations. <i>Analytical and Bioanalytical Chemistry</i> , 2011, 401, 167-181.	3.7	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.	12.0	190
15	Steroid metabolome analysis reveals prevalent glucocorticoid excess in primary aldosteronism. <i>JCI Insight</i> , 2017, 2, .	5.0	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.	7.0	176
17	Inflammation and mitochondrial fatty acid $\beta$ -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.	7.1	174
18	Distribution Pattern of Inhaled Ultrafine Gold Particles in the Rat Lung. <i>Inhalation Toxicology</i> , 2006, 18, 733-740.	1.6	173

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19	Platelets contribute to postnatal occlusion of the ductus arteriosus. <i>Nature Medicine</i> , 2010, 16, 75-82.	30.7	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.	7.1	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.	3.8	151
22	Evaluation of $\alpha$ - $\beta$ -Integrin-Targeted Positron Emission Tomography Tracer $^{18}\text{F}$ -Galacto-RGD for Imaging of Vascular Inflammation in Atherosclerotic Mice. <i>Circulation: Cardiovascular Imaging</i> , 2009, 2, 331-338.	2.6	145
23	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
24	Extracellular Matrix Metalloproteinase Inducer (CD147) Is a Novel Receptor on Platelets, Activates Platelets, and Augments Nuclear Factor $\kappa$ B-Dependent Inflammation in Monocytes. <i>Circulation Research</i> , 2008, 102, 302-309.	4.5	138
25	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
26	Patch repair of deep wounds by mobilized fascia. <i>Nature</i> , 2019, 576, 287-292.	27.8	129
27	Bioengineered bacterial vesicles as biological nano-heaters for optoacoustic imaging. <i>Nature Communications</i> , 2019, 10, 1114.	12.8	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.	3.8	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.	4.5	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.	5.6	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.	2.9	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.	3.7	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.	4.5	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.	6.5	122
36	<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

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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.	7.0	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.	1.7	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.	4.5	107
40	p62 Links $\beta$ -adrenergic input to mitochondrial function and thermogenesis. <i>Journal of Clinical Investigation</i> , 2013, 123, 469-478.	8.2	107
41	Genomic Alterations and Allelic Imbalances Are Strong Prognostic Predictors in Osteosarcoma. <i>Clinical Cancer Research</i> , 2010, 16, 4256-4267.	7.0	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.	3.4	100
43	Histopathological Classification of Nonneoplastic and Neoplastic Gastrointestinal Submucosal Lesions. <i>Endoscopy</i> , 2005, 37, 630-634.	1.8	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.	5.1	97
45	Imaging of pH in vivo using hyperpolarized $^{13}\text{C}$ -labelled zymonic acid. <i>Nature Communications</i> , 2017, 8, 15126.	12.8	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.	2.0	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.	2.4	90
48	N-acyl Taurines and Acylcarnitines Cause an Imbalance in Insulin Synthesis and Secretion Provoking $\beta$ Cell Dysfunction in Type 2 Diabetes. <i>Cell Metabolism</i> , 2017, 25, 1334-1347.e4.	16.2	87
49	Atlas of exercise metabolism reveals time-dependent signatures of metabolic homeostasis. <i>Cell Metabolism</i> , 2022, 34, 329-345.e8.	16.2	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.	2.2	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.	3.7	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.	0.8	82
54	Gene-by-Sex Interactions in Mitochondrial Functions and Cardio-Metabolic Traits. <i>Cell Metabolism</i> , 2019, 29, 932-949.e4.	16.2	79

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55	Cadherin-2 Controls Directional Chain Migration of Cerebellar Granule Neurons. <i>PLoS Biology</i> , 2009, 7, e1000240.	5.6	78
56	MALDI imaging mass spectrometry in cancer research: Combining proteomic profiling and histological evaluation. <i>Clinical Biochemistry</i> , 2013, 46, 539-545.	1.9	77
57	PTK (protein tyrosine kinase)-6 and HER2 and 4, but not HER1 and 3 predict long-term survival in breast carcinomas. <i>British Journal of Cancer</i> , 2007, 96, 801-807.	6.4	75
58	The redox environment triggers conformational changes and aggregation of hIAPP in Type II Diabetes. <i>Scientific Reports</i> , 2017, 7, 44041.	3.3	75
59	Efficient Isolation of Pure and Functional Mitochondria from Mouse Tissues Using Automated Tissue Disruption and Enrichment with Anti-TOM22 Magnetic Beads. <i>PLoS ONE</i> , 2013, 8, e82392.	2.5	74
60	Enhanced Activation of Epidermal Growth Factor Receptor Caused by Tumor-Derived E-Cadherin Mutations. <i>Cancer Research</i> , 2008, 68, 707-714.	0.9	72
61	Multicenter Matrix-Assisted Laser Desorption/Ionization Mass Spectrometry Imaging (MALDI MSI) Identifies Proteomic Differences in Breast-Cancer-Associated Stroma. <i>Journal of Proteome Research</i> , 2014, 13, 4730-4738.	3.7	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. <i>Virchows Archiv Fur Pathologische Anatomie Und Physiologie Und Fur Klinische Medizin</i> , 1998, 433, 297-304.	2.8	71
63	Combined analysis of Rac1, IQGAP1, Tiam1 and E-cadherin expression in gastric cancer. <i>Modern Pathology</i> , 2008, 21, 544-552.	5.5	71
64	Classification of HER2/neu Status in Gastric Cancer Using a Breast-Cancer Derived Proteome Classifier. <i>Journal of Proteome Research</i> , 2010, 9, 6317-6322.	3.7	71
65	Clinical response to chemotherapy in oesophageal adenocarcinoma patients is linked to defects in mitochondria. <i>Journal of Pathology</i> , 2013, 230, 410-419.	4.5	71
66	Calcineurin Links Mitochondrial Elongation with Energy Metabolism. <i>Cell Metabolism</i> , 2015, 22, 838-850.	16.2	71
67	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
68	Comprehensive Identification of Proteins from MALDI Imaging. <i>Molecular and Cellular Proteomics</i> , 2013, 12, 2901-2910.	3.8	69
69	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
70	Revisiting Rat Spermatogenesis with MALDI Imaging at 20- $\mu$ m Resolution. <i>Molecular and Cellular Proteomics</i> , 2011, 10, M110.005991.	3.8	68
71	Proteomic Analysis of PAXgene-Fixed Tissues. <i>Journal of Proteome Research</i> , 2010, 9, 5188-5196.	3.7	67
72	Opposing role of Notch1 and Notch2 in a KrasG12D-driven murine non-small cell lung cancer model. <i>Oncogene</i> , 2015, 34, 578-588.	5.9	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.	7.0	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.	1.0	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.	3.8	65
76	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
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.	7.0	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.	5.2	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.	1.7	63
80	Progressive stages of mitochondrial destruction caused by cell toxic bile salts. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2013, 1828, 2121-2133.	2.6	62
81	Chromosomal changes during development and progression of prostate adenocarcinomas. <i>British Journal of Cancer</i> , 2001, 84, 202-208.	6.4	61
82	Multispectral optoacoustic tomography of myocardial infarction. <i>Photoacoustics</i> , 2013, 1, 3-8.	7.8	61
83	Stabilization and structural analysis of a membrane-associated hIAPP aggregation intermediate. <i>ELife</i> , 2017, 6, .	6.0	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.	3.7	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.	2.6	58
86	MRI-compatible pipeline for three-dimensional MALDI imaging mass spectrometry using PAXgene fixation. <i>Journal of Proteomics</i> , 2013, 90, 52-60.	2.4	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.	4.5	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.	3.9	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.	6.4	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, .	3.7	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.	1.6	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.	1.7	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.	1.5	53
94	Benchmark datasets for 3D MALDI- and DESI-imaging mass spectrometry. <i>GigaScience</i> , 2015, 4, 20.	6.4	53
95	MALDI Imaging Mass Spectrometry for In Situ Proteomic Analysis of Preneoplastic Lesions in Pancreatic Cancer. <i>PLoS ONE</i> , 2012, 7, e39424.	2.5	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.	7.0	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.	2.6	51
98	Discussion point: reporting guidelines for mass spectrometry imaging. <i>Analytical and Bioanalytical Chemistry</i> , 2015, 407, 2035-2045.	3.7	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.	1.7	50
100	Deep tissue imaging: a review from a preclinical cancer research perspective. <i>Histochemistry and Cell Biology</i> , 2016, 146, 781-806.	1.7	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.	1.3	50
102	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
103	A Fibrin Glue Composition as Carrier for Nucleic Acid Vectors. <i>Pharmaceutical Research</i> , 2008, 25, 2946-2962.	3.5	49
104	Tissue microdissection techniques in quantitative genome and gene expression analyses. <i>Histochemistry and Cell Biology</i> , 2001, 115, 269-276.	1.7	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.	3.0	47
106	Morphometric Cell Classification for Single-Cell MALDI-Mass Spectrometry Imaging. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 17447-17450.	13.8	47
107	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
108	Flattop regulates basal body docking and positioning in mono- and multiciliated cells. <i>ELife</i> , 2014, 3, .	6.0	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.	6.4	45
110	Clinical Significance of the Costimulatory Molecule B7-H1 in Barrett Carcinoma. <i>Annals of Thoracic Surgery</i> , 2011, 91, 1025-1031.	1.3	45
111	MALDI-MS tissue imaging identification of biliverdin reductase B overexpression in prostate cancer. <i>Journal of Proteomics</i> , 2013, 91, 500-514.	2.4	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.	5.5	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.	3.8	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.	1.7	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.	3.6	42
116	Optoacoustic Imaging and Staging of Inflammation in a Murine Model of Arthritis. <i>Arthritis and Rheumatology</i> , 2014, 66, 2071-2078.	5.6	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.	14.6	42
118	Glutathione peroxidase 4 and vitamin E control reticulocyte maturation, stress erythropoiesis and iron homeostasis. <i>Haematologica</i> , 2020, 105, 937-950.	3.5	42
119	Post-surgical adhesions are triggered by calcium-dependent membrane bridges between mesothelial surfaces. <i>Nature Communications</i> , 2020, 11, 3068.	12.8	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.	5.1	41
121	The impact of Cysteine-Rich Intestinal Protein 1 (CRIP1) in human breast cancer. <i>Molecular Cancer</i> , 2013, 12, 28.	19.2	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.	2.6	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.	6.5	41
124	CLIP2 as radiation biomarker in papillary thyroid carcinoma. <i>Oncogene</i> , 2015, 34, 3917-3925.	5.9	41
125	High-resolution metabolite imaging of light and dark treated retina using MALDI-FTICR mass spectrometry. <i>Proteomics</i> , 2014, 14, 913-923.	2.2	40
126	MSiMass List: A Public Database of Identifications for Protein MALDI MS Imaging. <i>Journal of Proteome Research</i> , 2014, 13, 1138-1142.	3.7	40



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127	Characterization of Magnetic Viral Complexes for Targeted Delivery in Oncology. <i>Theranostics</i> , 2015, 5, 667-685.	10.0	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.	3.7	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.	3.7	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.	6.3	39
131	Analysis of the PTCH coding region in human rhabdomyosarcoma. <i>Human Mutation</i> , 2002, 20, 233-234.	2.5	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.	1.7	38
133	Classification of mass-spectrometric data in clinical proteomics using learning vector quantization methods. <i>Briefings in Bioinformatics</i> , 2007, 9, 129-143.	6.5	38
134	Farnesoid X receptor protects human and murine gastric epithelial cells against inflammation-induced damage. <i>Biochemical Journal</i> , 2011, 438, 315-323.	3.7	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.	4.5	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.	0.9	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.	4.8	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.	2.8	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.	2.5	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.	2.8	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.	3.3	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.	0.6	35
146	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
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