Peter Bankhead

List of Publications by Year
in descending order

47 papers	6,772 citations	257101 24 h-index	288905 40 g-index
55 all docs	55 docs citations	55 times ranked	13088 citing authors

#	Article	IF	Citations
1	QuPath: Open source software for digital pathology image analysis. Scientific Reports, 2017, 7, 16878.	1.6	3,854
2	Regulatory T cells promote myelin regeneration in the central nervous system. Nature Neuroscience, 2017, 20, 674-680.	7.1	343
3	Pan-cancer image-based detection of clinically actionable genetic alterations. Nature Cancer, 2020, 1, 789-799.	5.7	343
4	Fast Retinal Vessel Detection and Measurement Using Wavelets and Edge Location Refinement. PLoS ONE, 2012, 7, e32435.	1.1	272
5	Topography of cancer-associated immune cells in human solid tumors. ELife, 2018, 7, .	2.8	206
6	Dynamic Oscillation of Translation and Stress Granule Formation Mark the Cellular Response to Virus Infection. Cell Host and Microbe, 2012, 12, 71-85.	5.1	166
7	Digital pathology and image analysis in tissue biomarker research. Methods, 2014, 70, 59-73.	1.9	162
8	Translation suppression promotes stress granule formation and cell survival in response to cold shock. Molecular Biology of the Cell, 2012, 23, 3786-3800.	0.9	137
9	Human Pancreatic Carcinoma-Associated Fibroblasts Promote Expression of Co-inhibitory Markers on CD4+ and CD8+ T-Cells. Frontiers in Immunology, 2019, 10, 847.	2.2	137
10	Dengue Virus Inhibition of Autophagic Flux and Dependency of Viral Replication on Proteasomal Degradation of the Autophagy Receptor p62. Journal of Virology, 2015, 89, 8026-8041.	1.5	100
11	Deep Learning–Based Segmentation and Quantification in Experimental Kidney Histopathology. Journal of the American Society of Nephrology: JASN, 2021, 32, 52-68.	3.0	93
12	Integrated tumor identification and automated scoring minimizes pathologist involvement and provides new insights to key biomarkers in breast cancer. Laboratory Investigation, 2018, 98, 15-26.	1.7	81
13	The RNA processing factors THRAP3 and BCLAF1 promote the DNA damage response through selective mRNA splicing and nuclear export. Nucleic Acids Research, 2017, 45, 12816-12833.	6.5	79
14	Validation of the systematic scoring of immunohistochemically stained tumour tissue microarrays using <i>QuPath</i> digital image analysis. Histopathology, 2018, 73, 327-338.	1.6	63
15	Evaluation of PTGS2 Expression, PIK3CA Mutation, Aspirin Use and Colon Cancer Survival in a Population-Based Cohort Study. Clinical and Translational Gastroenterology, 2017, 8, e91.	1.3	56
16	Identifying mismatch repair–deficient colon cancer: near–perfect concordance between immunohistochemistry and microsatellite instability testing in a large, population–based series. Histopathology, 2021, 78, 401-413.	1.6	55
17	<i>Xenopus</i> cytoplasmic linker–associated protein 1 (XCLASP1) promotes axon elongation and advance of pioneer microtubules. Molecular Biology of the Cell, 2013, 24, 1544-1558.	0.9	53
18	Immune status is prognostic for poor survival in colorectal cancer patients and is associated with tumour hypoxia. British Journal of Cancer, 2020, 123, 1280-1288.	2.9	45

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19	Automated tumor analysis for molecular profiling in lung cancer. Oncotarget, 2015, 6, 27938-27952.	0.8	43
20	The ventral habenulae of zebrafish develop in prosomere 2 dependent on Tcf7l2 function. Neural Development, 2013, 8, 19.	1.1	39
21	Statin use, candidate mevalonate pathway biomarkers, and colon cancer survival in a population-based cohort study. British Journal of Cancer, 2017, 116, 1652-1659.	2.9	37
22	MITI minimum information guidelines for highly multiplexed tissue images. Nature Methods, 2022, 19, 262-267.	9.0	37
23	HIV-1 Nef Limits Communication between Linker of Activated T Cells and SLP-76 To Reduce Formation of SLP-76â€"Signaling Microclusters following TCR Stimulation. Journal of Immunology, 2012, 189, 1898-1910.	0.4	27
24	Developing image analysis methods for digital pathology. Journal of Pathology, 2022, 257, 391-402.	2.1	26
25	cudaMap: a GPU accelerated program for gene expression connectivity mapping. BMC Bioinformatics, 2013, 14, 305.	1.2	25
26	QUADrATiC: scalable gene expression connectivity mapping for repurposing FDA-approved therapeutics. BMC Bioinformatics, 2016, 17, 198.	1.2	25
27	Developing open-source software for bioimage analysis: opportunities and challenges. F1000Research, 2021, 10, 302.	0.8	20
28	Ca^{2+} sparks promote myogenic tone in retinal arterioles. British Journal of Pharmacology, 2013, 168, 1675-1686.	2.7	19
29	Endothelin 1 Stimulates Ca^{2+}-Sparks and Oscillations in Retinal Arteriolar Myocytes via IP_3R and RyR-Dependent Ca^{2+}Release. , 2011, 52, 3874.		18
30	PICan: An integromics framework for dynamic cancer biomarker discovery. Molecular Oncology, 2015, 9, 1234-1240.	2.1	15
31	Feedback via Ca^{2+}-Activated Ion Channels Modulates Endothelin 1 Signaling in Retinal Arteriolar Smooth Muscle. , 2012, 53, 3059.		13
32	Early Commissural Diencephalic Neurons Control Habenular Axon Extension and Targeting. Current Biology, 2017, 27, 270-278.	1.8	13
33	Characterization of a murine mixed neuron-glia model and cellular responses to regulatory T cell-derived factors. Molecular Brain, 2018, 11, 25.	1.3	13
34	Development of a semiâ€automated method for tumour budding assessment in colorectal cancer and comparison with manual methods. Histopathology, 2022, 80, 485-500.	1.6	11
35	The Role of $K^+$and Cl^-Channels in the Regulation of Retinal Arteriolar Tone and Blood Flow. , 2014, 55, 2157.		10
36	Acridine orange leukocyte fluorography in mice. Experimental Eye Research, 2014, 120, 15-19.	1.2	10

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37	Automated Detection and Measurement of Isolated Retinal Arterioles by a Combination of Edge Enhancement and Cost Analysis. PLoS ONE, 2014, 9, e91791.	1.1	10
38	cAMP/PKA-Dependent Increases in Ca Sparks, Oscillations and SR Ca Stores in Retinal Arteriolar Myocytes after Exposure to Vasopressin. , 2010, 51, 1591.		9
39	Embracing an integromic approach to tissue biomarker research in cancer: Perspectives and lessons learned. Briefings in Bioinformatics, 2017, 18, bbw044.	3.2	9
40	<i>Bcl-xL</i> as a poor prognostic biomarker and predictor of response to adjuvant chemotherapy specifically in <i>BRAF</i>-mutant stage II and III colon cancer. Oncotarget, 2018, 9, 13834-13847.	0.8	9
41	Detecting Ca²⁺ sparks on stationary and varying baselines. American Journal of Physiology - Cell Physiology, 2011, 301, C717-C728.	2.1	8
42	Using the R Package Spatstat to Assess Inhibitory Effects of Microregional Hypoxia on the Infiltration of Cancers of the Head and Neck Region by Cytotoxic T Lymphocytes. Cancers, 2021, 13, 1924.	1.7	5
43	Digital and Computational Pathology for Biomarker Discovery. , 2019, , 87-105.		3
44	Recent Advances in Pathology: the 2022 Annual Review Issue of <i>The Journal of Pathology</i>. Journal of Pathology, 2022, 257, 379-382.	2.1	2
45	The role of soluble factors secreted from Treg cells in central nervous system myelination. Journal of Neuroimmunology, 2014, 275, 204.	1.1	0
46	Zebrafish Brain Development Monitored by Long-Term In Vivo Microscopy: A Comparison Between Laser Scanning Confocal and 2-Photon Microscopy. Neuromethods, 2014, , 163-188.	0.2	0
47	ATU-10â€¦QuPath machine learning algorithm accurately identifies MLH1 deficient inflammatory bowel disease-associated colorectal cancer. , 2021, , .		0