

Xiling Shen

List of Publications by Year in descending order

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Version: 2024-02-01

78
papers

4,463
citations

126907

33
h-index

118850

62
g-index

88
all docs

88
docs citations

88
times ranked

7798
citing authors

#	ARTICLE	IF	CITATIONS
1	A gut-brain neural circuit for nutrient sensory transduction. <i>Science</i> , 2018, 361, .	12.6	552
2	The neuropeptide neuromedin U stimulates innate lymphoid cells and type 2 inflammation. <i>Nature</i> , 2017, 549, 282-286.	27.8	400
3	A microRNA miR-34a-Regulated Bimodal Switch Targets Notch in Colon Cancer Stem Cells. <i>Cell Stem Cell</i> , 2013, 12, 602-615.	11.1	325
4	Targeted drug delivery to circulating tumor cells via platelet membrane-functionalized particles. <i>Biomaterials</i> , 2016, 76, 52-65.	11.4	234
5	Adult enteric nervous system in health is maintained by a dynamic balance between neuronal apoptosis and neurogenesis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, E3709-E3718.	7.1	208
6	Aldolase B-Mediated Fructose Metabolism Drives Metabolic Reprogramming of Colon Cancer Liver Metastasis. <i>Cell Metabolism</i> , 2018, 27, 1249-1262.e4.	16.2	180
7	IRE1 β is an endogenous substrate of endoplasmic-reticulum-associated degradation. <i>Nature Cell Biology</i> , 2015, 17, 1546-1555.	10.3	173
8	A miR-34a-Numb Feedforward Loop Triggered by Inflammation Regulates Asymmetric Stem Cell Division in Intestine and Colon Cancer. <i>Cell Stem Cell</i> , 2016, 18, 189-202.	11.1	132
9	miR-1269 promotes metastasis and forms a positive feedback loop with TGF- β 2. <i>Nature Communications</i> , 2015, 6, 6879.	12.8	110
10	The cancer microbiome atlas: a pan-cancer comparative analysis to distinguish tissue-resident microbiota from contaminants. <i>Cell Host and Microbe</i> , 2021, 29, 281-298.e5.	11.0	109
11	A recellularized human colon model identifies cancer driver genes. <i>Nature Biotechnology</i> , 2016, 34, 845-851.	17.5	91
12	Epigenetics and cancer metabolism. <i>Cancer Letters</i> , 2015, 356, 309-314.	7.2	90
13	A long non-coding RNA targets microRNA miR-34a to regulate colon cancer stem cell asymmetric division. <i>ELife</i> , 2016, 5, .	6.0	88
14	Compensation for multimode fiber dispersion by adaptive optics. <i>Optics Letters</i> , 2005, 30, 2985.	3.3	86
15	Dysregulated transcriptional responses to SARS-CoV-2 in the periphery. <i>Nature Communications</i> , 2021, 12, 1079.	12.8	81
16	Intravital imaging of mouse embryos. <i>Science</i> , 2020, 368, 181-186.	12.6	70
17	An essential transcription factor, SciP, enhances robustness of <i>Caulobacter</i> cell cycle regulation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 18985-18990.	7.1	68
18	Chemokine 25 α -induced signaling suppresses colon cancer invasion and metastasis. <i>Journal of Clinical Investigation</i> , 2012, 122, 3184-3196.	8.2	67

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19	The ALPK1/TIFA/NF- κ B axis links a bacterial carcinogen to R-loop-induced replication stress. <i>Nature Communications</i> , 2020, 11, 5117.	12.8	67
20	Promises and challenges of organoid-guided precision medicine. <i>Med</i> , 2021, 2, 1011-1026.	4.4	56
21	The Class I Hdac Inhibitor Mgcd0103 Induces Cell Cycle Arrest and Apoptosis in Colon Cancer Initiating Cells by Upregulating <i>Dickkopf-1</i> and Non-Canonical <i>Wnt</i> Signaling. <i>Oncotarget</i> , 2010, 1, 596-605.	1.8	54
22	Patient-derived micro-organospheres enable clinical precision oncology. <i>Cell Stem Cell</i> , 2022, 29, 905-917.e6.	11.1	53
23	Real-time whole-brain imaging of hemodynamics and oxygenation at micro-vessel resolution with ultrafast wide-field photoacoustic microscopy. <i>Light: Science and Applications</i> , 2022, 11, 138.	16.6	52
24	Architecture and inherent robustness of a bacterial cell-cycle control system. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008, 105, 11340-11345.	7.1	51
25	Simultaneous optical and electrical in vivo analysis of the enteric nervous system. <i>Nature Communications</i> , 2016, 7, 11800.	12.8	51
26	Induced organoids derived from patients with ulcerative colitis recapitulate colitic reactivity. <i>Nature Communications</i> , 2021, 12, 262.	12.8	51
27	Matrix metalloproteinase inhibitors enhance the efficacy of frontline drugs against <i>Mycobacterium tuberculosis</i> . <i>PLoS Pathogens</i> , 2018, 14, e1006974.	4.7	50
28	NOTCH Signaling Regulates Asymmetric Cell Fate of Fast- and Slow-Cycling Colon Cancer-Initiating Cells. <i>Cancer Research</i> , 2016, 76, 3411-3421.	0.9	49
29	Fucosylation Deficiency in Mice Leads to Colitis and Adenocarcinoma. <i>Gastroenterology</i> , 2017, 152, 193-205.e10.	1.3	48
30	A Notch positive feedback in the intestinal stem cell niche is essential for stem cell self-renewal. <i>Molecular Systems Biology</i> , 2017, 13, 927.	7.2	44
31	Single-cell omics analysis reveals functional diversification of hepatocytes during liver regeneration. <i>JCI Insight</i> , 2020, 5, .	5.0	43
32	An atlas connecting shared genetic architecture of human diseases and molecular phenotypes provides insight into COVID-19 susceptibility. <i>Genome Medicine</i> , 2021, 13, 83.	8.2	40
33	The class I HDAC inhibitor MGCD0103 induces cell cycle arrest and apoptosis in colon cancer initiating cells by upregulating <i>Dickkopf-1</i> and non-canonical <i>Wnt</i> signaling. <i>Oncotarget</i> , 2010, 1, 596-605.	1.8	36
34	Asymmetric division: a marker for cancer stem cells?. <i>Oncotarget</i> , 2013, 4, 950-951.	1.8	35
35	Mapping the microbial interactome: Statistical and experimental approaches for microbiome network inference. <i>Experimental Biology and Medicine</i> , 2019, 244, 445-458.	2.4	34
36	DAMPs/PAMPs induce monocytic TLR activation and tolerance in COVID-19 patients; nucleic acid binding scavengers can counteract such TLR agonists. <i>Biomaterials</i> , 2022, 283, 121393.	11.4	34

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37	Living fabrication of functional semi-interpenetrating polymeric materials. Nature Communications, 2021, 12, 3422.	12.8	31
38	Comprehensive models of human primary and metastatic colorectal tumors in immunodeficient and immunocompetent mice by chemokine targeting. Nature Biotechnology, 2015, 33, 656-660.	17.5	30
39	Notch signalling regulates asymmetric division and inter-conversion between lgr5 and bmi1 expressing intestinal stem cells. Scientific Reports, 2016, 6, 26069.	3.3	30
40	Single cell transcriptomics of mouse kidney transplants reveals a myeloid cell pathway for transplant rejection. JCI Insight, 2020, 5, .	5.0	30
41	An intravital window to image the colon in real time. Nature Communications, 2019, 10, 5647.	12.8	25
42	miR-34a is a microRNA safeguard for Citrobacter-induced inflammatory colon oncogenesis. ELife, 2018, 7, .	6.0	25
43	Intestinal crypts recover rapidly from focal damage with coordinated motion of stem cells that is impaired by aging. Scientific Reports, 2018, 8, 10989.	3.3	24
44	The frontier of live tissue imaging across space and time. Cell Stem Cell, 2021, 28, 603-622.	11.1	24
45	Mucosal-associated invariant T cell responses differ by sex in COVID-19. Med, 2021, 2, 755-772.e5.	4.4	24
46	Radical and lunatic fringes modulate notch ligands to support mammalian intestinal homeostasis. ELife, 2018, 7, .	6.0	23
47	Single-Cell Transcriptomics Reveals Heterogeneity and Drug Response of Human Colorectal Cancer Organoids. , 2018, 2018, 2378-2381.		21
48	Electrical stimulation of gut motility guided by an <i>in silico</i> model. Journal of Neural Engineering, 2017, 14, 066010.	3.5	18
49	A Precision Medicine Drug Discovery Pipeline Identifies Combined CDK2 and 9 Inhibition as a Novel Therapeutic Strategy in Colorectal Cancer. Molecular Cancer Therapeutics, 2020, 19, 2516-2527.	4.1	17
50	A real-time spike classification method based on dynamic time warping for extracellular enteric neural recording with large waveform variability. Journal of Neuroscience Methods, 2016, 261, 97-109.	2.5	16
51	A Tissue Engineering Approach to Metastatic Colon Cancer. IScience, 2020, 23, 101719.	4.1	15
52	Development of a precision medicine pipeline to identify personalized treatments for colorectal cancer. BMC Cancer, 2020, 20, 592.	2.6	14
53	Chromatin Remodeling of Colorectal Cancer Liver Metastasis is Mediated by an HGF-PU.1-DPP4 Axis. Advanced Science, 2021, 8, e2004673.	11.2	14
54	Surface Functionalized Graphene Biosensor on Sapphire for Cancer Cell Detection. Journal of Nanoscience and Nanotechnology, 2016, 16, 144-151.	0.9	12

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55	G6PD inhibition sensitizes ovarian cancer cells to oxidative stress in the metastatic omental microenvironment. <i>Cell Reports</i> , 2022, 39, 111012.	6.4	12
56	Adaptive Models for Gene Networks. <i>PLoS ONE</i> , 2012, 7, e31657.	2.5	10
57	Integrated chromatin and transcriptomic profiling of patient-derived colon cancer organoids identifies personalized drug targets to overcome oxaliplatin resistance. <i>Genes and Diseases</i> , 2021, 8, 203-214.	3.4	10
58	Exploitation of Synthetic mRNA To Drive Immune Effector Cell Recruitment and Functional Reprogramming In Vivo. <i>Journal of Immunology</i> , 2019, 202, 608-617.	0.8	9
59	Differential chromatin accessibility in peripheral blood mononuclear cells underlies COVID-19 disease severity prior to seroconversion. <i>Scientific Reports</i> , 2022, 12, .	3.3	8
60	SENP3-mediated host defense response contains HBV replication and restores protein synthesis. <i>PLoS ONE</i> , 2019, 14, e0209179.	2.5	7
61	Prometheus revisited. <i>Journal of Clinical Investigation</i> , 2018, 128, 2192-2193.	8.2	7
62	Slow nucleosome dynamics set the transcriptional speed limit and induce RNA polymerase II traffic jams and bursts. <i>PLoS Computational Biology</i> , 2022, 18, e1009811.	3.2	7
63	Opportunities and Challenges for Single-Unit Recordings from Enteric Neurons in Awake Animals. <i>Micromachines</i> , 2018, 9, 428.	2.9	6
64	Computational motility models of neurogastroenterology and neuromodulation. <i>Brain Research</i> , 2018, 1693, 174-179.	2.2	6
65	Frequency Domain Analysis Reveals External Periodic Fluctuations Can Generate Sustained p53 Oscillation. <i>PLoS ONE</i> , 2011, 6, e22852.	2.5	6
66	Mycobacterial infection aggravates <i>Helicobacter pylori</i> -induced gastric preneoplastic pathology by redirection of de novo induced Treg cells. <i>Cell Reports</i> , 2022, 38, 110359.	6.4	6
67	Epigenetic basis of oncogenic-Kras-mediated epithelial-cellular proliferation and plasticity. <i>Developmental Cell</i> , 2022, 57, 310-328.e9.	7.0	6
68	Deep learning segmentation of glomeruli on kidney donor frozen sections. <i>Journal of Medical Imaging</i> , 2021, 8, 067501.	1.5	6
69	Asymmetric division: An antitumor player?. <i>Molecular and Cellular Oncology</i> , 2016, 3, e1164279.	0.7	5
70	The Ex Vivo Culture and Pattern Recognition Receptor Stimulation of Mouse Intestinal Organoids. <i>Journal of Visualized Experiments</i> , 2016, , .	0.3	4
71	Microbiota of Inflammatory Bowel Disease Models. , 2018, 2018, 2374-2377.		4
72	Mapping the peripheral nervous system in the whole mouse via compressed sensing tractography. <i>Journal of Neural Engineering</i> , 2021, 18, 044002.	3.5	3

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73	Novel Three-Dimensional Cultures of Patient-Derived Cancer and Tumor Immune Cells. <i>Gastroenterology</i> , 2019, 157, 260-261.	1.3	1
74	Agent-Based Modelling to Delineate Spatiotemporal Control Mechanisms of the Stem Cell Niche. <i>Methods in Molecular Biology</i> , 2019, 1975, 3-35.	0.9	1
75	An imprecise path to precision medicine. <i>Nature Medicine</i> , 2020, 26, 14-14.	30.7	1
76	Spatial perturbation with synthetic protein scaffold reveals robustness of asymmetric cell division. <i>Journal of Biomedical Science and Engineering</i> , 2013, 06, 134-143.	0.4	1
77	A Simple Aspect Ratio Dependent Method of Patterning Microwells for Selective Cell Attachment. , 2018, 2018, .		0
78	Spatial Patterning from an Integrated Wnt/ β -catenin and Notch/Delta Gene Circuit. , 2018, 2018, 5022-5025.		0