Timothy P Padera

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/4049402/publications.pdf

Version: 2024-02-01

88 papers	7,432 citations	81900 39 h-index	69250 77 g-index
89 all docs	89 docs citations	89 times ranked	9274 citing authors

#	Article	IF	Citations
1	Lymphatic Metastasis in the Absence of Functional Intratumor Lymphatics. Science, 2002, 296, 1883-1886.	12.6	869
2	Cancer cells compress intratumour vessels. Nature, 2004, 427, 695-695.	27.8	706
3	Three-dimensional microscopy of the tumor microenvironment in vivo using optical frequency domain imaging. Nature Medicine, 2009, 15, 1219-1223.	30.7	692
4	Hearing Improvement after Bevacizumab in Patients with Neurofibromatosis Type 2. New England Journal of Medicine, 2009, 361, 358-367.	27.0	446
5	Lymph node metastases can invade local blood vessels, exit the node, and colonize distant organs in mice. Science, 2018, 359, 1403-1407.	12.6	340
6	Imaging Steps of Lymphatic Metastasis Reveals That Vascular Endothelial Growth Factor-C Increases Metastasis by Increasing Delivery of Cancer Cells to Lymph Nodes: Therapeutic Implications. Cancer Research, 2006, 66, 8065-8075.	0.9	323
7	Solid stress and elastic energy as measures of tumour mechanopathology. Nature Biomedical Engineering, 2017, 1, .	22.5	280
8	Impaired lymphatic contraction associated with immunosuppression. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 18784-18789.	7.1	246
9	The Lymphatic System in Disease Processes and Cancer Progression. Annual Review of Biomedical Engineering, 2016, 18, 125-158.	12.3	172
10	Compression of Pancreatic Tumor Blood Vessels by Hyaluronan Is Caused by Solid Stress and Not Interstitial Fluid Pressure. Cancer Cell, 2014, 26, 14-15.	16.8	155
11	The lymph node microenvironment and its role in the progression of metastatic cancer. Seminars in Cell and Developmental Biology, 2015, 38, 98-105.	5.0	140
12	Peritumor Lymphatics Induced by Vascular Endothelial Growth Factor-C Exhibit Abnormal Function. Cancer Research, 2004, 64, 4400-4404.	0.9	139
13	Endothelial Nitric Oxide Synthase Mediates Lymphangiogenesis and Lymphatic Metastasis. Cancer Research, 2009, 69, 2801-2808.	0.9	127
14	Solid stress in brain tumours causes neuronal loss and neurological dysfunction and can be reversed by lithium. Nature Biomedical Engineering, 2019, 3, 230-245.	22.5	127
15	Ly6Clo monocytes drive immunosuppression and confer resistance to anti-VEGFR2 cancer therapy. Journal of Clinical Investigation, 2017, 127, 3039-3051.	8.2	124
16	In vivo imaging of extracellular matrix remodeling by tumor-associated fibroblasts. Nature Methods, 2009, 6, 143-145.	19.0	120
17	Onset of Abnormal Blood and Lymphatic Vessel Function and Interstitial Hypertension in Early Stages of Carcinogenesis. Cancer Research, 2006, 66, 3360-3364.	0.9	119
18	Growth and Immune Evasion of Lymph Node Metastasis. Frontiers in Oncology, 2018, 8, 36.	2.8	106

#	Article	IF	Citations
19	Effects of Vascular-Endothelial Protein Tyrosine Phosphatase Inhibition on Breast Cancer Vasculature and Metastatic Progression. Journal of the National Cancer Institute, 2013, 105, 1188-1201.	6.3	101
20	Imaging the lymphatic system. Microvascular Research, 2014, 96, 55-63.	2.5	101
21	Differential response of primary tumor versus lymphatic metastasis to VEGFR-2 and VEGFR-3 kinase inhibitors cediranib and vandetanib. Molecular Cancer Therapeutics, 2008, 7, 2272-2279.	4.1	98
22	Investigation of the Lack of Angiogenesis in the Formation of Lymph Node Metastases. Journal of the National Cancer Institute, 2015, 107, .	6.3	97
23	Targeting CXCR4-dependent immunosuppressive Ly6C ^{low} monocytes improves antiangiogenic therapy in colorectal cancer. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 10455-10460.	7.1	97
24	Molecular mechanisms of metastasis. Cancer and Metastasis Reviews, 2006, 25, 203-220.	5.9	92
25	Endothelial Nitric Oxide Synthase Regulates Microlymphatic Flow via Collecting Lymphatics. Circulation Research, 2004, 95, 204-209.	4.5	91
26	Lymphotoxin-alpha contributes to lymphangiogenesis. Blood, 2010, 116, 2173-2182.	1.4	83
27	Conventional and High-Speed Intravital Multiphoton Laser Scanning Microscopy of Microvasculature, Lymphatics, and Leukocyteâ€“Endothelial Interactions. Molecular Imaging, 2002, 1, 9-15.	1.4	81
28	Lymphatic Function and Immune Regulation in Health and Disease. Lymphatic Research and Biology, 2013, 11, 136-143.	1.1	74
29	Mechanobiological oscillators control lymph flow. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 10938-10943.	7.1	73
30	Multiscale Measurements Distinguish Cellular and Interstitial Hindrances to Diffusion In Vivo. Biophysical Journal, 2009, 97, 330-336.	0.5	71
31	Lymphatic vessels in health and disease. Wiley Interdisciplinary Reviews: Systems Biology and Medicine, 2013, 5, 111-124.	6.6	66
32	In vivo label-free measurement of lymph flow velocity and volumetric flow rates using Doppler optical coherence tomography. Scientific Reports, 2016, 6, 29035.	3.3	63
33	A particulate saponin/TLR agonist vaccine adjuvant alters lymph flow and modulates adaptive immunity. Science Immunology, 2021, 6, eabf1152.	11.9	63
34	Platelet-derived growth factor receptor-Î² in Gorham's disease. Nature Clinical Practice Oncology, 2006, 3, 693-697.	4.3	60
35	Differential Gene Expression of Primary Cultured Lymphatic and Blood Vascular Endothelial Cells. Neoplasia, 2007, 9, 1038-1045.	5.3	52
36	Progression of Metastasis through Lymphatic System. Cells, 2021, 10, 627.	4.1	51

#	Article	IF	Citations
37	DEVELOPMENT: Lymphatics Make the Break. Science, 2003, 299, 209-210.	12.6	45
38	Methicillin-resistant Staphylococcus aureus causes sustained collecting lymphatic vessel dysfunction. Science Translational Medicine, 2018, 10, .	12.4	45
39	Video-rate resonant scanning multiphoton microscopy: An emerging technique for intravital imaging of the tumor microenvironment. Intravital, 2012, 1, 60-68.	2.0	43
40	Prevention and Treatment of Lymphatic Metastasis by Antilymphangiogenic Therapy. Journal of the National Cancer Institute, 2002, 94, 785-787.	6.3	41
41	Lack of lymphatic vessel phenotype in LYVEâ€1/CD44 double knockout mice. Journal of Cellular Physiology, 2009, 219, 430-437.	4.1	41
42	Significance of Lymph Node Metastasis in Cancer Dissemination of Head and Neck Cancer. Translational Oncology, 2015, 8, 119-125.	3.7	41
43	Solid stress impairs lymphocyte infiltration into lymph-node metastases. Nature Biomedical Engineering, 2021, 5, 1426-1436.	22.5	38
44	Murine chronic lymph node window for longitudinal intravital lymph node imaging. Nature Protocols, 2017, 12, 1513-1520.	12.0	31
45	Breast cancer metastasis through the lympho-vascular system. Clinical and Experimental Metastasis, 2018, 35, 443-454.	3.3	31
46	Novel molecular pathways in Gorham disease: Implications for treatment. Pediatric Blood and Cancer, 2014, 61, 401-406.	1.5	28
47	Mechanisms of breast cancer metastasis. Clinical and Experimental Metastasis, 2022, 39, 117-137.	3.3	27
48	Synchronization and Random Triggering of Lymphatic Vessel Contractions. PLoS Computational Biology, 2016, 12, e1005231.	3.2	26
49	Depolarization signatures map gold nanorods within biological tissue. Nature Photonics, 2017, 11, 583-588.	31.4	25
50	Capturing change in clonal composition amongst single mouse germinal centers. ELife, 2018, 7, .	6.0	24
51	Method for the quantitative measurement of collecting lymphatic vessel contraction in mice. Journal of Biological Methods, 2014, 1, e6.	0.6	20
52	Angiopoietin-4 increases permeability of blood vessels and promotes lymphatic dilation. FASEB Journal, 2015, 29, 3668-3677.	0.5	19
53	Non-invasive detection of severe neutropenia in chemotherapy patients by optical imaging of nailfold microcirculation. Scientific Reports, 2018, 8, 5301.	3.3	19
54	Local Failure in Parameningeal Rhabdomyosarcoma Correlates With Poor Response to Induction Chemotherapy. International Journal of Radiation Oncology Biology Physics, 2015, 92, 358-367.	0.8	18

#	Article	IF	Citations
55	Liver lymphatic drainage patterns follow segmental anatomy in a murine model. Scientific Reports, 2020, 10, 21808.	3.3	18
56	The effects of valve leaflet mechanics on lymphatic pumping assessed using numerical simulations. Scientific Reports, 2019, 9, 10649.	3.3	17
57	Molecular Regulation of Microlymphatic Formation and Function: Role of Nitric Oxide. Trends in Cardiovascular Medicine, 2005, 15, 169-173.	4.9	16
58	VEGFR3: A New Target for Antiangiogenesis Therapy?. Developmental Cell, 2008, 15, 178-179.	7.0	16
59	Cardiac and inflammatory biomarkers do not correlate with volume of heart or lung receiving radiation. Radiation Oncology, 2015, 10, 5.	2.7	16
60	The Impact of Taxane-based Chemotherapy on the Lymphatic System. Annals of Plastic Surgery, 2019, 82, S173-S178.	0.9	16
61	Inducible Nitric Oxide Synthase and CD11b⁺Gr1⁺ Cells Impair Lymphatic Contraction of Tumor-Draining Lymphatic Vessels. Lymphatic Research and Biology, 2019, 17, 294-300.	1.1	15
62	Vascular endothelial growth factor-C enhances radiosensitivity of lymphatic endothelial cells. Angiogenesis, 2014, 17, 419-427.	7.2	13
63	Lymph node effective vascular permeability and chemotherapy uptake. Microcirculation, 2017, 24, e12381.	1.8	13
64	Simultaneous measurements of lymphatic vessel contraction, flow and valve dynamics in multiple lymphangions using optical coherence tomography. Journal of Biophotonics, 2018, 11, e201700017.	2.3	11
65	Measuring Vascular Permeability In Vivo. Methods in Molecular Biology, 2016, 1458, 71-85.	0.9	10
66	Lymphatic function measurements influenced by contrast agent volume and body position. JCI Insight, 2018, 3, .	5.0	10
67	A Novel Approach to Quantifying Lymphatic Contractility during Indocyanine Green Lymphangiography. Plastic and Reconstructive Surgery, 2019, 144, 1197-1201.	1.4	9
68	Spectral- and Polarization-Dependent Scattering of Gold Nanobipyramids for Exogenous Contrast in Optical Coherence Tomography. Nano Letters, 2021, 21, 8595-8601.	9.1	8
69	A retrospective analysis of commonly prescribed medications and the risk of developing breast cancer related lymphedema. Clinical Research and Trials, 2020, 6, .	0.1	7
70	Reply to Davis: Nitric oxide regulates lymphatic contractions. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, E106.	7.1	5
71	The effects of gravity and compression on interstitial fluid transport in the lower limb. Scientific Reports, 2022, 12, 4890.	3.3	5
72	Notch Leads Lymphatics and Links Them to Blood Vessels. Arteriosclerosis, Thrombosis, and Vascular Biology, 2010, 30, 1682-1683.	2.4	4

#	Article	IF	Citations
73	Editorial: Regulation of Immune Function by the Lymphatic Vasculature. Frontiers in Immunology, 2019, 10, 2597.	4.8	4
74	Multiphoton Phosphorescence Quenching Microscopy Reveals Kinetics of Tumor Oxygenation during Antiangiogenesis and Angiotensin Signaling Inhibition. Clinical Cancer Research, 2022, 28, 3076-3090.	7.0	4
75	Correspondence re: S. Maula et al., intratumoral lymphatics are essential for the metastatic spread and prognosis in squamous cell carcinoma of the head and neck. Cancer Res., 63: 1920-1926, 2003. Cancer Research, 2003, 63, 8555-6; author reply 8558.	0.9	3
76	Anti-VEGFR-3 Therapy and Lymph Node Metastasis. Cancer Research, 2007, 67, 5055-5055.	0.9	2
77	Silence of the lymphs: some anaesthetic regimens inhibit lymphatic pumping. Journal of Physiology, 2019, 597, 2827-2828.	2.9	1
78	Fate Mapping of Cancer Cells in Metastatic Lymph Nodes Using Photoconvertible Proteins. Methods in Molecular Biology, 2021, 2265, 363-376.	0.9	1
79	Solid stress impairs lymphocyte infiltration into lymph node metastases. FASEB Journal, 2022, 36, .	0.5	1
80	Editorial. Seminars in Cell and Developmental Biology, 2015, 38, 53-54.	5.0	0
81	Label-free in-vivo measurement of lymph flow velocity using Doppler optical coherence tomography (Conference Presentation). , 2016, , .		0
82	Definitive depolarization signatures in nanomedicine. , 2017, , .		0
83	BSCI-10. NEUROLOGICAL DYSFUNCTION CAUSED BY BRAIN TUMOR-GENERATED SOLID STRESS IS REVERSED BY LITHIUM. Neuro-Oncology Advances, 2019, 1, i2-i3.	0.7	0
84	Imaging the steps of lymphatic metastasis. FASEB Journal, 2008, 22, 392.1.	0.5	0
85	Abstract 3925: Optical coherence tomography imaging in cancer research.. , 2013, , .		0
86	Methicillinâ€resistant Staphylococcus aureus causes sustained collecting lymphatic vessel dysfunction. FASEB Journal, 2019, 33, 38.8.	0.5	0
87	Lymphatic vessels in health and disease. Proceedings for Annual Meeting of the Japanese Pharmacological Society, 2020, 93, 1-S05-1.	0.0	0
88	Analysis of Systemic Transport Barriers for the Activation of Antiâ€tumor Immunity. FASEB Journal, 2020, 34, 1-1.	0.5	0