

Timothy P Padera

List of Publications by Year in descending order

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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	Mechanisms of breast cancer metastasis. <i>Clinical and Experimental Metastasis</i> , 2022, 39, 117-137.	3.3	27
2	The effects of gravity and compression on interstitial fluid transport in the lower limb. <i>Scientific Reports</i> , 2022, 12, 4890.	3.3	5
3	Solid stress impairs lymphocyte infiltration into lymph node metastases. <i>FASEB Journal</i> , 2022, 36, .	0.5	1
4	Multiphoton Phosphorescence Quenching Microscopy Reveals Kinetics of Tumor Oxygenation during Antiangiogenesis and Angiotensin Signaling Inhibition. <i>Clinical Cancer Research</i> , 2022, 28, 3076-3090.	7.0	4
5	Fate Mapping of Cancer Cells in Metastatic Lymph Nodes Using Photoconvertible Proteins. <i>Methods in Molecular Biology</i> , 2021, 2265, 363-376.	0.9	1
6	Progression of Metastasis through Lymphatic System. <i>Cells</i> , 2021, 10, 627.	4.1	51
7	Solid stress impairs lymphocyte infiltration into lymph-node metastases. <i>Nature Biomedical Engineering</i> , 2021, 5, 1426-1436.	22.5	38
8	Spectral- and Polarization-Dependent Scattering of Gold Nanobipyramids for Exogenous Contrast in Optical Coherence Tomography. <i>Nano Letters</i> , 2021, 21, 8595-8601.	9.1	8
9	A particulate saponin/TLR agonist vaccine adjuvant alters lymph flow and modulates adaptive immunity. <i>Science Immunology</i> , 2021, 6, eabf1152.	11.9	63
10	Liver lymphatic drainage patterns follow segmental anatomy in a murine model. <i>Scientific Reports</i> , 2020, 10, 21808.	3.3	18
11	A retrospective analysis of commonly prescribed medications and the risk of developing breast cancer related lymphedema. <i>Clinical Research and Trials</i> , 2020, 6, .	0.1	7
12	Lymphatic vessels in health and disease. <i>Proceedings for Annual Meeting of the Japanese Pharmacological Society</i> , 2020, 93, 1-S05-1.	0.0	0
13	Analysis of Systemic Transport Barriers for the Activation of Anti-tumor Immunity. <i>FASEB Journal</i> , 2020, 34, 1-1.	0.5	0
14	The effects of valve leaflet mechanics on lymphatic pumping assessed using numerical simulations. <i>Scientific Reports</i> , 2019, 9, 10649.	3.3	17
15	BSCI-10. NEUROLOGICAL DYSFUNCTION CAUSED BY BRAIN TUMOR-GENERATED SOLID STRESS IS REVERSED BY LITHIUM. <i>Neuro-Oncology Advances</i> , 2019, 1, i2-i3.	0.7	0
16	Silence of the lymphs: some anaesthetic regimens inhibit lymphatic pumping. <i>Journal of Physiology</i> , 2019, 597, 2827-2828.	2.9	1
17	Editorial: Regulation of Immune Function by the Lymphatic Vasculature. <i>Frontiers in Immunology</i> , 2019, 10, 2597.	4.8	4
18	A Novel Approach to Quantifying Lymphatic Contractility during Indocyanine Green Lymphangiography. <i>Plastic and Reconstructive Surgery</i> , 2019, 144, 1197-1201.	1.4	9

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19	The Impact of Taxane-based Chemotherapy on the Lymphatic System. <i>Annals of Plastic Surgery</i> , 2019, 82, S173-S178.	0.9	16
20	Solid stress in brain tumours causes neuronal loss and neurological dysfunction and can be reversed by lithium. <i>Nature Biomedical Engineering</i> , 2019, 3, 230-245.	22.5	127
21	Inducible Nitric Oxide Synthase and CD11b ⁺ Gr1 ⁺ Cells Impair Lymphatic Contraction of Tumor-Draining Lymphatic Vessels. <i>Lymphatic Research and Biology</i> , 2019, 17, 294-300.	1.1	15
22	Methicillin-resistant <i>Staphylococcus aureus</i> causes sustained collecting lymphatic vessel dysfunction. <i>FASEB Journal</i> , 2019, 33, 38.8.	0.5	0
23	Non-invasive detection of severe neutropenia in chemotherapy patients by optical imaging of nailfold microcirculation. <i>Scientific Reports</i> , 2018, 8, 5301.	3.3	19
24	Methicillin-resistant <i>Staphylococcus aureus</i> causes sustained collecting lymphatic vessel dysfunction. <i>Science Translational Medicine</i> , 2018, 10, .	12.4	45
25	Lymph node metastases can invade local blood vessels, exit the node, and colonize distant organs in mice. <i>Science</i> , 2018, 359, 1403-1407.	12.6	340
26	Simultaneous measurements of lymphatic vessel contraction, flow and valve dynamics in multiple lymphangions using optical coherence tomography. <i>Journal of Biophotonics</i> , 2018, 11, e201700017.	2.3	11
27	Breast cancer metastasis through the lympho-vascular system. <i>Clinical and Experimental Metastasis</i> , 2018, 35, 443-454.	3.3	31
28	Growth and Immune Evasion of Lymph Node Metastasis. <i>Frontiers in Oncology</i> , 2018, 8, 36.	2.8	106
29	Lymphatic function measurements influenced by contrast agent volume and body position. <i>JCI Insight</i> , 2018, 3, .	5.0	10
30	Capturing change in clonal composition amongst single mouse germinal centers. <i>ELife</i> , 2018, 7, .	6.0	24
31	Solid stress and elastic energy as measures of tumour mechanopathology. <i>Nature Biomedical Engineering</i> , 2017, 1, .	22.5	280
32	Lymph node effective vascular permeability and chemotherapy uptake. <i>Microcirculation</i> , 2017, 24, e12381.	1.8	13
33	Targeting CXCR4-dependent immunosuppressive Ly6C ^{low} monocytes improves antiangiogenic therapy in colorectal cancer. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, 10455-10460.	7.1	97
34	Depolarization signatures map gold nanorods within biological tissue. <i>Nature Photonics</i> , 2017, 11, 583-588.	31.4	25
35	Murine chronic lymph node window for longitudinal intravital lymph node imaging. <i>Nature Protocols</i> , 2017, 12, 1513-1520.	12.0	31
36	Definitive depolarization signatures in nanomedicine. , 2017, , .		0

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37	Ly6Clo monocytes drive immunosuppression and confer resistance to anti-VEGFR2 cancer therapy. <i>Journal of Clinical Investigation</i> , 2017, 127, 3039-3051.	8.2	124
38	Label-free in-vivo measurement of lymph flow velocity using Doppler optical coherence tomography (Conference Presentation). , 2016, , .		0
39	Measuring Vascular Permeability In Vivo. <i>Methods in Molecular Biology</i> , 2016, 1458, 71-85.	0.9	10
40	In vivo label-free measurement of lymph flow velocity and volumetric flow rates using Doppler optical coherence tomography. <i>Scientific Reports</i> , 2016, 6, 29035.	3.3	63
41	The Lymphatic System in Disease Processes and Cancer Progression. <i>Annual Review of Biomedical Engineering</i> , 2016, 18, 125-158.	12.3	172
42	Reply to Davis: Nitric oxide regulates lymphatic contractions. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, E106.	7.1	5
43	Synchronization and Random Triggering of Lymphatic Vessel Contractions. <i>PLoS Computational Biology</i> , 2016, 12, e1005231.	3.2	26
44	Angiopoietin-4 increases permeability of blood vessels and promotes lymphatic dilation. <i>FASEB Journal</i> , 2015, 29, 3668-3677.	0.5	19
45	The lymph node microenvironment and its role in the progression of metastatic cancer. <i>Seminars in Cell and Developmental Biology</i> , 2015, 38, 98-105.	5.0	140
46	Investigation of the Lack of Angiogenesis in the Formation of Lymph Node Metastases. <i>Journal of the National Cancer Institute</i> , 2015, 107, .	6.3	97
47	Editorial. <i>Seminars in Cell and Developmental Biology</i> , 2015, 38, 53-54.	5.0	0
48	Cardiac and inflammatory biomarkers do not correlate with volume of heart or lung receiving radiation. <i>Radiation Oncology</i> , 2015, 10, 5.	2.7	16
49	Local Failure in Parameningeal Rhabdomyosarcoma Correlates With Poor Response to Induction Chemotherapy. <i>International Journal of Radiation Oncology Biology Physics</i> , 2015, 92, 358-367.	0.8	18
50	Mechanobiological oscillators control lymph flow. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 10938-10943.	7.1	73
51	Significance of Lymph Node Metastasis in Cancer Dissemination of Head and Neck Cancer. <i>Translational Oncology</i> , 2015, 8, 119-125.	3.7	41
52	Method for the quantitative measurement of collecting lymphatic vessel contraction in mice. <i>Journal of Biological Methods</i> , 2014, 1, e6.	0.6	20
53	Vascular endothelial growth factor-C enhances radiosensitivity of lymphatic endothelial cells. <i>Angiogenesis</i> , 2014, 17, 419-427.	7.2	13
54	Compression of Pancreatic Tumor Blood Vessels by Hyaluronan Is Caused by Solid Stress and Not Interstitial Fluid Pressure. <i>Cancer Cell</i> , 2014, 26, 14-15.	16.8	155

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55	Novel molecular pathways in Gorham disease: Implications for treatment. <i>Pediatric Blood and Cancer</i> , 2014, 61, 401-406.	1.5	28
56	Imaging the lymphatic system. <i>Microvascular Research</i> , 2014, 96, 55-63.	2.5	101
57	Lymphatic vessels in health and disease. <i>Wiley Interdisciplinary Reviews: Systems Biology and Medicine</i> , 2013, 5, 111-124.	6.6	66
58	Effects of Vascular-Endothelial Protein Tyrosine Phosphatase Inhibition on Breast Cancer Vasculature and Metastatic Progression. <i>Journal of the National Cancer Institute</i> , 2013, 105, 1188-1201.	6.3	101
59	Lymphatic Function and Immune Regulation in Health and Disease. <i>Lymphatic Research and Biology</i> , 2013, 11, 136-143.	1.1	74
60	Abstract 3925: Optical coherence tomography imaging in cancer research.. , 2013, , .		0
61	Video-rate resonant scanning multiphoton microscopy: An emerging technique for intravital imaging of the tumor microenvironment. <i>Intravital</i> , 2012, 1, 60-68.	2.0	43
62	Impaired lymphatic contraction associated with immunosuppression. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 18784-18789.	7.1	246
63	Lymphotoxin-alpha contributes to lymphangiogenesis. <i>Blood</i> , 2010, 116, 2173-2182.	1.4	83
64	Notch Leads Lymphatics and Links Them to Blood Vessels. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2010, 30, 1682-1683.	2.4	4
65	Hearing Improvement after Bevacizumab in Patients with Neurofibromatosis Type 2. <i>New England Journal of Medicine</i> , 2009, 361, 358-367.	27.0	446
66	Endothelial Nitric Oxide Synthase Mediates Lymphangiogenesis and Lymphatic Metastasis. <i>Cancer Research</i> , 2009, 69, 2801-2808.	0.9	127
67	Lack of lymphatic vessel phenotype in LYVE α /CD44 double knockout mice. <i>Journal of Cellular Physiology</i> , 2009, 219, 430-437.	4.1	41
68	Three-dimensional microscopy of the tumor microenvironment in vivo using optical frequency domain imaging. <i>Nature Medicine</i> , 2009, 15, 1219-1223.	30.7	692
69	In vivo imaging of extracellular matrix remodeling by tumor-associated fibroblasts. <i>Nature Methods</i> , 2009, 6, 143-145.	19.0	120
70	Multiscale Measurements Distinguish Cellular and Interstitial Hindrances to Diffusion In Vivo. <i>Biophysical Journal</i> , 2009, 97, 330-336.	0.5	71
71	VEGFR3: A New Target for Antiangiogenesis Therapy?. <i>Developmental Cell</i> , 2008, 15, 178-179.	7.0	16
72	Differential response of primary tumor versus lymphatic metastasis to VEGFR-2 and VEGFR-3 kinase inhibitors cediranib and vandetanib. <i>Molecular Cancer Therapeutics</i> , 2008, 7, 2272-2279.	4.1	98

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73	Imaging the steps of lymphatic metastasis. <i>FASEB Journal</i> , 2008, 22, 392.1.	0.5	0
74	Anti-VEGFR-3 Therapy and Lymph Node Metastasis. <i>Cancer Research</i> , 2007, 67, 5055-5055.	0.9	2
75	Differential Gene Expression of Primary Cultured Lymphatic and Blood Vascular Endothelial Cells. <i>Neoplasia</i> , 2007, 9, 1038-1045.	5.3	52
76	Molecular mechanisms of metastasis. <i>Cancer and Metastasis Reviews</i> , 2006, 25, 203-220.	5.9	92
77	Onset of Abnormal Blood and Lymphatic Vessel Function and Interstitial Hypertension in Early Stages of Carcinogenesis. <i>Cancer Research</i> , 2006, 66, 3360-3364.	0.9	119
78	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. <i>Cancer Research</i> , 2006, 66, 8065-8075.	0.9	323
79	Platelet-derived growth factor receptor- β^2 in Gorham's disease. <i>Nature Clinical Practice Oncology</i> , 2006, 3, 693-697.	4.3	60
80	Molecular Regulation of Microlymphatic Formation and Function: Role of Nitric Oxide. <i>Trends in Cardiovascular Medicine</i> , 2005, 15, 169-173.	4.9	16
81	Endothelial Nitric Oxide Synthase Regulates Microlymphatic Flow via Collecting Lymphatics. <i>Circulation Research</i> , 2004, 95, 204-209.	4.5	91
82	Peritumor Lymphatics Induced by Vascular Endothelial Growth Factor-C Exhibit Abnormal Function. <i>Cancer Research</i> , 2004, 64, 4400-4404.	0.9	139
83	Cancer cells compress intratumour vessels. <i>Nature</i> , 2004, 427, 695-695.	27.8	706
84	DEVELOPMENT: Lymphatics Make the Break. <i>Science</i> , 2003, 299, 209-210.	12.6	45
85	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. <i>Cancer Res.</i> , 63: 1920-1926, 2003. <i>Cancer Research</i> , 2003, 63, 8555-6; author reply 8558.	0.9	3
86	Lymphatic Metastasis in the Absence of Functional Intratumor Lymphatics. <i>Science</i> , 2002, 296, 1883-1886.	12.6	869
87	Prevention and Treatment of Lymphatic Metastasis by Antilymphangiogenic Therapy. <i>Journal of the National Cancer Institute</i> , 2002, 94, 785-787.	6.3	41
88	Conventional and High-Speed Intravital Multiphoton Laser Scanning Microscopy of Microvasculature, Lymphatics, and Leukocyte-Endothelial Interactions. <i>Molecular Imaging</i> , 2002, 1, 9-15.	1.4	81