

Steven T Proulx

List of Publications by Year in descending order

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Version: 2024-02-01

70
papers

5,631
citations

101543

36
h-index

98798

67
g-index

71
all docs

71
docs citations

71
times ranked

6986
citing authors

#	ARTICLE	IF	CITATIONS
1	A dural lymphatic vascular system that drains brain interstitial fluid and macromolecules. <i>Journal of Experimental Medicine</i> , 2015, 212, 991-999.	8.5	1,543
2	Outflow of cerebrospinal fluid is predominantly through lymphatic vessels and is reduced in aged mice. <i>Nature Communications</i> , 2017, 8, 1434.	12.8	458
3	Stimulation of lymphangiogenesis via VEGFR-3 inhibits chronic skin inflammation. <i>Journal of Experimental Medicine</i> , 2010, 207, 2255-2269.	8.5	208
4	Quantitative Imaging of Lymphatic Function with Liposomal Indocyanine Green. <i>Cancer Research</i> , 2010, 70, 7053-7062.	0.9	186
5	Cerebrospinal fluid outflow: a review of the historical and contemporary evidence for arachnoid villi, perineural routes, and dural lymphatics. <i>Cellular and Molecular Life Sciences</i> , 2021, 78, 2429-2457.	5.4	180
6	Inhibition of lymphangiogenesis and lymphatic drainage via vascular endothelial growth factor receptor 3 blockade increases the severity of inflammation in a mouse model of chronic inflammatory arthritis. <i>Arthritis and Rheumatism</i> , 2009, 60, 2666-2676.	6.7	155
7	Rapid lymphatic efflux limits cerebrospinal fluid flow to the brain. <i>Acta Neuropathologica</i> , 2019, 137, 151-165.	7.7	145
8	Increased lymphangiogenesis in joints of mice with inflammatory arthritis. <i>Arthritis Research and Therapy</i> , 2007, 9, R118.	3.5	134
9	Use of a PEG-conjugated bright near-infrared dye for functional imaging of rerouting of tumor lymphatic drainage after sentinel lymph node metastasis. <i>Biomaterials</i> , 2013, 34, 5128-5137.	11.4	134
10	Chronic High-Fat Diet Impairs Collecting Lymphatic Vessel Function in Mice. <i>PLoS ONE</i> , 2014, 9, e94713.	2.5	113
11	Restoration of lymphatic function rescues obesity in Prox1-haploinsufficient mice. <i>JCI Insight</i> , 2016, 1, .	5.0	110
12	T Cell Migration from Inflamed Skin to Draining Lymph Nodes Requires Intralymphatic Crawling Supported by ICAM-1/LFA-1 Interactions. <i>Cell Reports</i> , 2017, 18, 857-865.	6.4	96
13	Clearance of cerebrospinal fluid from the sacral spine through lymphatic vessels. <i>Journal of Experimental Medicine</i> , 2019, 216, 2492-2502.	8.5	80
14	Longitudinal assessment of synovial, lymph node, and bone volumes in inflammatory arthritis in mice by in vivo magnetic resonance imaging and microfocal computed tomography. <i>Arthritis and Rheumatism</i> , 2007, 56, 4024-4037.	6.7	79
15	<i>In vivo</i> Imaging of Inflammation- and Tumor-Induced Lymph Node Lymphangiogenesis by Immuno-Positron Emission Tomography. <i>Cancer Research</i> , 2010, 70, 8842-8851.	0.9	73
16	Expanded CD23+/CD21hi B Cells in Inflamed Lymph Nodes Are Associated with the Onset of Inflammatory-Erosive Arthritis in TNF-Transgenic Mice and Are Targets of Anti-CD20 Therapy. <i>Journal of Immunology</i> , 2010, 184, 6142-6150.	0.8	73
17	VEGF-C and VEGF-D Blockade Inhibits Inflammatory Skin Carcinogenesis. <i>Cancer Research</i> , 2013, 73, 4212-4221.	0.9	72
18	Dynamics of lymphatic regeneration and flow patterns after lymph node dissection. <i>Breast Cancer Research and Treatment</i> , 2013, 139, 81-86.	2.5	71

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19	Regulatory T cell transfer ameliorates lymphedema and promotes lymphatic vessel function. JCI Insight, 2016, 1, e89081.	5.0	70
20	Unexpected contribution of lymphatic vessels to promotion of distant metastatic tumor spread. Science Advances, 2018, 4, eaat4758.	10.3	67
21	Prominent Lymphatic Vessel Hyperplasia with Progressive Dysfunction and Distinct Immune Cell Infiltration in Lymphedema. American Journal of Pathology, 2016, 186, 2193-2203.	3.8	65
22	Thymus cell antigen 1 (Thy1, CD90) is expressed by lymphatic vessels and mediates cell adhesion to lymphatic endothelium. Experimental Cell Research, 2010, 316, 2982-2992.	2.6	64
23	Lymphatic outflow of cerebrospinal fluid is reduced in glioma. Scientific Reports, 2019, 9, 14815.	3.3	64
24	Imaging technology of the lymphatic system. Advanced Drug Delivery Reviews, 2021, 170, 294-311.	13.7	64
25	Decline of lymphatic vessel density and function in murine skin during aging. Angiogenesis, 2015, 18, 489-498.	7.2	63
26	Lymphatic endothelial cells attenuate inflammation via suppression of dendritic cell maturation. Oncotarget, 2016, 7, 39421-39435.	1.8	60
27	Interleukin-7 is produced by afferent lymphatic vessels and supports lymphatic drainage. Blood, 2013, 122, 2271-2281.	1.4	58
28	MRI and Quantification of Draining Lymph Node Function in Inflammatory Arthritis. Annals of the New York Academy of Sciences, 2007, 1117, 106-123.	3.8	57
29	Genetic Ablation of SOX18 Function Suppresses Tumor Lymphangiogenesis and Metastasis of Melanoma in Mice. Cancer Research, 2012, 72, 3105-3114.	0.9	56
30	Drug Pharmacokinetics Determined by Real-Time Analysis of Mouse Breath. Angewandte Chemie - International Edition, 2015, 54, 7815-7818.	13.8	55
31	Postnatal Deletion of Podoplanin in Lymphatic Endothelium Results in Blood Filling of the Lymphatic System and Impairs Dendritic Cell Migration to Lymph Nodes. Arteriosclerosis, Thrombosis, and Vascular Biology, 2017, 37, 108-117.	2.4	54
32	Expansion of the lymphatic vasculature in cancer and inflammation: New opportunities for in vivo imaging and drug delivery. Journal of Controlled Release, 2013, 172, 550-557.	9.9	52
33	An Important Role of VEGF-C in Promoting Lymphedema Development. Journal of Investigative Dermatology, 2017, 137, 1995-2004.	0.7	52
34	Differential effects of biologic versus bisphosphonate inhibition of wear debris-induced osteolysis assessed by longitudinal micro-CT. Journal of Orthopaedic Research, 2008, 26, 1340-1346.	2.3	47
35	Elucidating bone marrow edema and myelopoiesis in murine arthritis using contrast-enhanced magnetic resonance imaging. Arthritis and Rheumatism, 2008, 58, 2019-2029.	6.7	45
36	A Transgenic Prox1-Cre-tdTomato Reporter Mouse for Lymphatic Vessel Research. PLoS ONE, 2015, 10, e0122976.	2.5	41

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37	Endothelial cell-derived semaphorin 3A inhibits filopodia formation by blood vascular tip cells. <i>Development (Cambridge)</i> , 2016, 143, 589-594.	2.5	39
38	A Distinct Role of the Autonomic Nervous System in Modulating the Function of Lymphatic Vessels under Physiological and Tumor-Draining Conditions. <i>Cell Reports</i> , 2019, 27, 3305-3314.e13.	6.4	38
39	Intravital and Whole-Organ Imaging Reveals Capture of Melanoma-Derived Antigen by Lymph Node Subcapsular Macrophages Leading to Widespread Deposition on Follicular Dendritic Cells. <i>Frontiers in Immunology</i> , 2015, 6, 114.	4.8	36
40	Antibody-mediated delivery of VEGF-C potently reduces chronic skin inflammation. <i>JCI Insight</i> , 2018, 3, .	5.0	34
41	In vivo visualization and quantification of collecting lymphatic vessel contractility using near-infrared imaging. <i>Scientific Reports</i> , 2016, 6, 22930.	3.3	33
42	Non-invasive dynamic near-infrared imaging and quantification of vascular leakage in vivo. <i>Angiogenesis</i> , 2013, 16, 525-540.	7.2	32
43	Lymphatic MAFB regulates vascular patterning during developmental and pathological lymphangiogenesis. <i>Angiogenesis</i> , 2020, 23, 411-423.	7.2	32
44	Effects of antiresorptive agents on osteomyelitis. <i>Annals of the New York Academy of Sciences</i> , 2010, 1192, 84-94.	3.8	31
45	Microneedles for the Noninvasive Structural and Functional Assessment of Dermal Lymphatic Vessels. <i>Small</i> , 2016, 12, 1053-1061.	10.0	30
46	Regulation of lymphangiogenesis in the diaphragm by macrophages and VEGFR-3 signaling. <i>Angiogenesis</i> , 2016, 19, 513-524.	7.2	29
47	Quantitative measurement of lymphatic function in mice by noninvasive near-infrared imaging of a peripheral vein. <i>JCI Insight</i> , 2017, 2, e90861.	5.0	28
48	<i>In vitro</i> fabrication of autologous living tissue-engineered vascular grafts based on prenatally harvested ovine amniotic fluid-derived stem cells. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2016, 10, 52-70.	2.7	26
49	Differential effects of anaesthesia on the contractility of lymphatic vessels <i>in vivo</i> . <i>Journal of Physiology</i> , 2019, 597, 2841-2852.	2.9	26
50	Findings questioning the involvement of Sigma-1 receptor in the uptake of anisamide-decorated particles. <i>Journal of Controlled Release</i> , 2016, 224, 229-238.	9.9	24
51	Transcriptional profiling of breast cancer-associated lymphatic vessels reveals VCAM1 as regulator of lymphatic invasion and permeability. <i>International Journal of Cancer</i> , 2019, 145, 2804-2815.	5.1	22
52	An important role of cutaneous lymphatic vessels in coordinating and promoting anagen hair follicle growth. <i>PLoS ONE</i> , 2019, 14, e0220341.	2.5	22
53	New use of an old drug: inhibition of breast cancer stem cells by benztropine mesylate. <i>Oncotarget</i> , 2017, 8, 1007-1022.	1.8	22
54	Magnetic resonance imaging of cerebrospinal fluid outflow after low-rate lateral ventricle infusion in mice. <i>JCI Insight</i> , 2022, 7, .	5.0	21

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55	Central nervous system zoning: How brain barriers establish subdivisions for CNS immune privilege and immune surveillance. <i>Journal of Internal Medicine</i> , 2022, 292, 47-67.	6.0	21
56	Molecular mechanisms and imaging of lymphatic metastasis. <i>Experimental Cell Research</i> , 2013, 319, 1611-1617.	2.6	20
57	Therapeutic Regeneration of Lymphatic and Immune Cell Functions upon Lympho-organoid Transplantation. <i>Stem Cell Reports</i> , 2019, 12, 1260-1268.	4.8	20
58	Minimally invasive method for the point-of-care quantification of lymphatic vessel function. <i>JCI Insight</i> , 2019, 4, .	5.0	19
59	Living-Engineered Valves for Transcatheter Venous Valve Repair. <i>Tissue Engineering - Part C: Methods</i> , 2014, 20, 451-463.	2.1	14
60	Chronic axial compression of the mouse tail segment induces MRI bone marrow edema changes that correlate with increased marrow vasculature and cellularity. <i>Journal of Orthopaedic Research</i> , 2010, 28, 1220-1228.	2.3	12
61	High-Fat Diet in the Absence of Obesity Does Not Aggravate Surgically Induced Lymphoedema in Mice. <i>European Surgical Research</i> , 2017, 58, 180-192.	1.3	11
62	Mechanosensitive ACKR4 scavenges CCR7 chemokines to facilitate T _H 1 cell de-adhesion and passive transport by flow in inflamed afferent lymphatics. <i>Cell Reports</i> , 2022, 38, 110334.	6.4	10
63	Translational Perspectives on Psoriatic Arthritis. <i>Journal of rheumatology Supplement, The</i> , 2009, 83, 30-34.	2.2	9
64	Opposing roles of endothelial and leukocyte-expressed IL-7R α in the regulation of psoriasis-like skin inflammation. <i>Scientific Reports</i> , 2019, 9, 11714.	3.3	9
65	The Role of Bone Marrow Edema and Lymphangiogenesis in Inflammatory-Erosive Arthritis. <i>Advances in Experimental Medicine and Biology</i> , 2009, 658, 1-10.	1.6	7
66	Visualization and Measurement of Lymphatic Function In Vivo. <i>Methods in Molecular Biology</i> , 2018, 1846, 197-211.	0.9	6
67	Watching lymphatic vessels grow by making them glow. <i>Cell Research</i> , 2012, 22, 12-13.	12.0	4
68	Differential effects of anaesthesia on the contractility of lymphatic vessels <i>in vivo</i> : authors' reply. <i>Journal of Physiology</i> , 2020, 598, 2037-2037.	2.9	0
69	Stimulation of lymphangiogenesis via VEGFR-3 inhibits chronic skin inflammation. <i>Journal of Cell Biology</i> , 2010, 190, i14-i14.	5.2	0
70	Endothelial cell-derived semaphorin 3A inhibits filopodia formation by blood vascular tip cells. <i>Journal of Cell Science</i> , 2016, 129, e1.1-e1.1.	2.0	0