

Melody A Swartz

List of Publications by Citations

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104
papers

13,428
citations

59
h-index

110
g-index

110
ext. papers

15,199
ext. citations

12
avg, IF

6.57
L-index

#	Paper	IF	Citations
104	Hyperplasia of lymphatic vessels in VEGF-C transgenic mice. <i>Science</i> , 1997 , 276, 1423-5	33.3	1056
103	Exploiting lymphatic transport and complement activation in nanoparticle vaccines. <i>Nature Biotechnology</i> , 2007 , 25, 1159-64	44.5	963
102	Dendritic-cell trafficking to lymph nodes through lymphatic vessels. <i>Nature Reviews Immunology</i> , 2005 , 5, 617-28	36.5	867
101	In vivo targeting of dendritic cells in lymph nodes with poly(propylene sulfide) nanoparticles. <i>Journal of Controlled Release</i> , 2006 , 112, 26-34	11.7	509
100	Interstitial flow and its effects in soft tissues. <i>Annual Review of Biomedical Engineering</i> , 2007 , 9, 229-56	12	408
99	Autologous chemotaxis as a mechanism of tumor cell homing to lymphatics via interstitial flow and autocrine CCR7 signaling. <i>Cancer Cell</i> , 2007 , 11, 526-38	24.3	405
98	Engineering synthetic vaccines using cues from natural immunity. <i>Nature Materials</i> , 2013 , 12, 978-90	27	403
97	Interstitial fluid and lymph formation and transport: physiological regulation and roles in inflammation and cancer. <i>Physiological Reviews</i> , 2012 , 92, 1005-60	47.9	399
96	Lymphatic and interstitial flow in the tumour microenvironment: linking mechanobiology with immunity. <i>Nature Reviews Cancer</i> , 2012 , 12, 210-9	31.3	357
95	Induction of lymphoidlike stroma and immune escape by tumors that express the chemokine CCL21. <i>Science</i> , 2010 , 328, 749-52	33.3	356
94	Growth factors engineered for super-affinity to the extracellular matrix enhance tissue healing. <i>Science</i> , 2014 , 343, 885-8	33.3	335
93	Interstitial fluid flow induces myofibroblast differentiation and collagen alignment in vitro. <i>Journal of Cell Science</i> , 2005 , 118, 4731-9	5.3	273
92	Interstitial flow as a guide for lymphangiogenesis. <i>Circulation Research</i> , 2003 , 92, 801-8	15.7	233
91	Synergy between interstitial flow and VEGF directs capillary morphogenesis in vitro through a gradient amplification mechanism. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005 , 102, 15779-84	11.5	223
90	VEGF-C promotes immune tolerance in B16 melanomas and cross-presentation of tumor antigen by lymph node lymphatics. <i>Cell Reports</i> , 2012 , 1, 191-9	10.6	220
89	Targeting the tumor-draining lymph node with adjuvanted nanoparticles reshapes the anti-tumor immune response. <i>Biomaterials</i> , 2014 , 35, 814-24	15.6	209
88	Complete and specific inhibition of adult lymphatic regeneration by a novel VEGFR-3 neutralizing antibody. <i>Journal of the National Cancer Institute</i> , 2005 , 97, 14-21	9.7	206

87	Nanoparticle conjugation of CpG enhances adjuvancy for cellular immunity and memory recall at low dose. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013 , 110, 19902-7	11.5	195
86	Interstitial flow differentially stimulates blood and lymphatic endothelial cell morphogenesis in vitro. <i>Microvascular Research</i> , 2004 , 68, 258-64	3.7	174
85	Engineering approaches to immunotherapy. <i>Science Translational Medicine</i> , 2012 , 4, 148rv9	17.5	173
84	Antigen delivery to dendritic cells by poly(propylene sulfide) nanoparticles with disulfide conjugated peptides: Cross-presentation and T cell activation. <i>Vaccine</i> , 2010 , 28, 7897-906	4.1	173
83	Transmural flow modulates cell and fluid transport functions of lymphatic endothelium. <i>Circulation Research</i> , 2010 , 106, 920-31	15.7	171
82	Secondary lymphedema in the mouse tail: Lymphatic hyperplasia, VEGF-C upregulation, and the protective role of MMP-9. <i>Microvascular Research</i> , 2006 , 72, 161-71	3.7	169
81	Lymph node stromal cells acquire peptide-MHCII complexes from dendritic cells and induce antigen-specific CD4+ T cell tolerance. <i>Journal of Experimental Medicine</i> , 2014 , 211, 1153-66	16.6	153
80	Emerging roles of lymphatic endothelium in regulating adaptive immunity. <i>Journal of Clinical Investigation</i> , 2014 , 124, 943-52	15.9	153
79	Dendritic cell activation and T cell priming with adjuvant- and antigen-loaded oxidation-sensitive polymersomes. <i>Biomaterials</i> , 2012 , 33, 6211-9	15.6	152
78	Vascular endothelial growth factor-C and C-C chemokine receptor 7 in tumor cell-lymphatic cross-talk promote invasive phenotype. <i>Cancer Research</i> , 2009 , 69, 349-57	10.1	151
77	Nanoparticle conjugation of antigen enhances cytotoxic T-cell responses in pulmonary vaccination. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011 , 108, E989-97	11.5	148
76	Enhancing efficacy of anticancer vaccines by targeted delivery to tumor-draining lymph nodes. <i>Cancer Immunology Research</i> , 2014 , 2, 436-47	12.5	147
75	Steady-state antigen scavenging, cross-presentation, and CD8+ T cell priming: a new role for lymphatic endothelial cells. <i>Journal of Immunology</i> , 2014 , 192, 5002-11	5.3	135
74	Lymphatic function, lymphangiogenesis, and cancer metastasis. <i>Microscopy Research and Technique</i> , 2001 , 55, 92-9	2.8	134
73	Combined CSL and p53 downregulation promotes cancer-associated fibroblast activation. <i>Nature Cell Biology</i> , 2015 , 17, 1193-204	23.4	131
72	Tumor lymphangiogenesis promotes T cell infiltration and potentiates immunotherapy in melanoma. <i>Science Translational Medicine</i> , 2017 , 9,	17.5	120
71	Lymphatic vessels regulate immune microenvironments in human and murine melanoma. <i>Journal of Clinical Investigation</i> , 2016 , 126, 3389-402	15.9	120
70	Characterization of lymphangiogenesis in a model of adult skin regeneration. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2006 , 291, H1402-10	5.2	119

69	Fibroblast alignment under interstitial fluid flow using a novel 3-D tissue culture model. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2003 , 284, H1771-7	5.2	119
68	Cooperative and redundant roles of VEGFR-2 and VEGFR-3 signaling in adult lymphangiogenesis. <i>FASEB Journal</i> , 2007 , 21, 1003-12	0.9	118
67	Mechanics of interstitial-lymphatic fluid transport: theoretical foundation and experimental validation. <i>Journal of Biomechanics</i> , 1999 , 32, 1297-307	2.9	116
66	Antigens reversibly conjugated to a polymeric glyco-adjuvant induce protective humoral and cellular immunity. <i>Nature Materials</i> , 2019 , 18, 175-185	27	112
65	Peripherally administered nanoparticles target monocytic myeloid cells, secondary lymphoid organs and tumors in mice. <i>PLoS ONE</i> , 2013 , 8, e61646	3.7	108
64	Lymphatic drainage function and its immunological implications: from dendritic cell homing to vaccine design. <i>Seminars in Immunology</i> , 2008 , 20, 147-56	10.7	108
63	Primary Human and Rat ECells Release the Intracellular Autoantigens GAD65, IA-2, and Proinsulin in Exosomes Together With Cytokine-Induced Enhancers of Immunity. <i>Diabetes</i> , 2017 , 66, 460-473	0.9	102
62	Matrix-binding checkpoint immunotherapies enhance antitumor efficacy and reduce adverse events. <i>Science Translational Medicine</i> , 2017 , 9,	17.5	99
61	Overexpression of VEGF-C causes transient lymphatic hyperplasia but not increased lymphangiogenesis in regenerating skin. <i>Circulation Research</i> , 2005 , 96, 1193-9	15.7	95
60	Tunable T cell immunity towards a protein antigen using polymersomes vs. solid-core nanoparticles. <i>Biomaterials</i> , 2013 , 34, 4339-46	15.6	91
59	Impaired humoral immunity and tolerance in K14-VEGFR-3-Ig mice that lack dermal lymphatic drainage. <i>Journal of Immunology</i> , 2012 , 189, 2181-90	5.3	91
58	Engineering opportunities in cancer immunotherapy. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015 , 112, 14467-72	11.5	90
57	Nanoparticle conjugation and pulmonary delivery enhance the protective efficacy of Ag85B and CpG against tuberculosis. <i>Vaccine</i> , 2011 , 29, 6959-66	4.1	90
56	Collecting lymphatic vessel permeability facilitates adipose tissue inflammation and distribution of antigen to lymph node-homing adipose tissue dendritic cells. <i>Journal of Immunology</i> , 2015 , 194, 5200-10 ⁵³	5.3	84
55	Regulation of tumor invasion by interstitial fluid flow. <i>Physical Biology</i> , 2011 , 8, 015012	3	83
54	Targeted antibody and cytokine cancer immunotherapies through collagen affinity. <i>Science Translational Medicine</i> , 2019 , 11,	17.5	82
53	Toll-like receptor 8 agonist nanoparticles mimic immunomodulating effects of the live BCG vaccine and enhance neonatal innate and adaptive immune responses. <i>Journal of Allergy and Clinical Immunology</i> , 2017 , 140, 1339-1350	11.5	75
52	Nano-sized drug-loaded micelles deliver payload to lymph node immune cells and prolong allograft survival. <i>Journal of Controlled Release</i> , 2011 , 156, 154-60	11.7	74

51	Local induction of lymphangiogenesis with engineered fibrin-binding VEGF-C promotes wound healing by increasing immune cell trafficking and matrix remodeling. <i>Biomaterials</i> , 2017 , 131, 160-175	15.6	67
50	Exploiting lymphatic vessels for immunomodulation: Rationale, opportunities, and challenges. <i>Advanced Drug Delivery Reviews</i> , 2017 , 114, 43-59	18.5	66
49	Immunomodulatory roles of lymphatic vessels in cancer progression. <i>Cancer Immunology Research</i> , 2014 , 2, 701-7	12.5	66
48	A tissue-engineered model of the intestinal lacteal for evaluating lipid transport by lymphatics. <i>Biotechnology and Bioengineering</i> , 2009 , 103, 1224-35	4.9	64
47	Perivascular Macrophages Limit Permeability. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2016 , 36, 2203-2212	9.4	62
46	Tumor-associated factors are enriched in lymphatic exudate compared to plasma in metastatic melanoma patients. <i>Journal of Experimental Medicine</i> , 2019 , 216, 1091-1107	16.6	58
45	Transcellular Pathways in Lymphatic Endothelial Cells Regulate Changes in Solute Transport by Fluid Stress. <i>Circulation Research</i> , 2017 , 120, 1440-1452	15.7	57
44	Collagen-binding IL-12 enhances tumour inflammation and drives the complete remission of established immunologically cold mouse tumours. <i>Nature Biomedical Engineering</i> , 2020 , 4, 531-543	19	57
43	6-Thioguanine-loaded polymeric micelles deplete myeloid-derived suppressor cells and enhance the efficacy of T cell immunotherapy in tumor-bearing mice. <i>Cancer Immunology, Immunotherapy</i> , 2015 , 64, 1033-46	7.4	50
42	Intravital immunofluorescence for visualizing the microcirculatory and immune microenvironments in the mouse ear dermis. <i>PLoS ONE</i> , 2013 , 8, e57135	3.7	50
41	Recruitment of CD103 dendritic cells via tumor-targeted chemokine delivery enhances efficacy of checkpoint inhibitor immunotherapy. <i>Science Advances</i> , 2019 , 5, eaay1357	14.3	44
40	Normal dendritic cell mobilization to lymph nodes under conditions of severe lymphatic hypoplasia. <i>Journal of Immunology</i> , 2013 , 190, 4608-20	5.3	42
39	Vaccine nanocarriers: Coupling intracellular pathways and cellular biodistribution to control CD4 vs CD8 T cell responses. <i>Biomaterials</i> , 2017 , 132, 48-58	15.6	38
38	Lymphatic vessel density is associated with CD8 T cell infiltration and immunosuppressive factors in human melanoma. <i>Oncotmunology</i> , 2018 , 7, e1462878	7.2	33
37	Nanoparticle conjugation enhances the immunomodulatory effects of intranasally delivered CpG in house dust mite-allergic mice. <i>Scientific Reports</i> , 2015 , 5, 14274	4.9	32
36	Growth factors with enhanced syndecan binding generate tonic signalling and promote tissue healing. <i>Nature Biomedical Engineering</i> , 2020 , 4, 463-475	19	30
35	Optimization and regeneration kinetics of lymphatic-specific photodynamic therapy in the mouse dermis. <i>Angiogenesis</i> , 2014 , 17, 347-57	10.6	25
34	Connecting (T)issues: How Research in Fascia Biology Can Impact Integrative Oncology. <i>Cancer Research</i> , 2016 , 76, 6159-6162	10.1	25

33	Lymphatic endothelial cells prime naïve CD8 T cells into memory cells under steady-state conditions. <i>Nature Communications</i> , 2020 , 11, 538	17.4	23
32	Improving Efficacy and Safety of Agonistic Anti-CD40 Antibody Through Extracellular Matrix Affinity. <i>Molecular Cancer Therapeutics</i> , 2018 , 17, 2399-2411	6.1	22
31	T Cells Redirected to a Minor Histocompatibility Antigen Instruct Intratumoral TNF Expression and Empower Adoptive Cell Therapy for Solid Tumors. <i>Cancer Research</i> , 2017 , 77, 658-671	10.1	22
30	VEGFR-3 neutralization inhibits ovarian lymphangiogenesis, follicle maturation, and murine pregnancy. <i>American Journal of Pathology</i> , 2013 , 183, 1596-1607	5.8	21
29	Immune Checkpoint Ligand PD-L1 Is Upregulated in Pulmonary Lymphangiomyomatosis. <i>American Journal of Respiratory Cell and Molecular Biology</i> , 2018 , 59, 723-732	5.7	19
28	Nanoparticle Conjugation of Human Papillomavirus 16 E7-long Peptides Enhances Therapeutic Vaccine Efficacy against Solid Tumors in Mice. <i>Cancer Immunology Research</i> , 2018 , 6, 1301-1313	12.5	19
27	Polypropylene Sulfide Nanoparticle p24 Vaccine Promotes Dendritic Cell-Mediated Specific Immune Responses against HIV-1. <i>Journal of Investigative Dermatology</i> , 2016 , 136, 1172-1181	4.3	17
26	Oxidation-sensitive polymersomes as vaccine nanocarriers enhance humoral responses against Lassa virus envelope glycoprotein. <i>Virology</i> , 2017 , 512, 161-171	3.6	15
25	Fibronectin EDA and CpG synergize to enhance antigen-specific Th1 and cytotoxic responses. <i>Vaccine</i> , 2016 , 34, 2453-2459	4.1	15
24	ADAM17 Promotes Motility, Invasion, and Sprouting of Lymphatic Endothelial Cells. <i>PLoS ONE</i> , 2015 , 10, e0132661	3.7	15
23	Long-term intravital immunofluorescence imaging of tissue matrix components with epifluorescence and two-photon microscopy. <i>Journal of Visualized Experiments</i> , 2014 ,	1.6	13
22	Myeloid Cells Orchestrate Systemic Immunosuppression, Impairing the Efficacy of Immunotherapy against HPV Cancers. <i>Cancer Immunology Research</i> , 2020 , 8, 131-145	12.5	13
21	Combination of Synthetic Long Peptides and XCL1 Fusion Proteins Results in Superior Tumor Control. <i>Frontiers in Immunology</i> , 2019 , 10, 294	8.4	13
20	A Cationic Micelle Complex Improves CD8+ T Cell Responses in Vaccination Against Unmodified Protein Antigen. <i>ACS Biomaterials Science and Engineering</i> , 2016 , 2, 231-240	5.5	12
19	Engineering Targeting Materials for Therapeutic Cancer Vaccines. <i>Frontiers in Bioengineering and Biotechnology</i> , 2020 , 8, 19	5.8	12
18	Inherent biomechanical traits enable infective filariae to disseminate through collecting lymphatic vessels. <i>Nature Communications</i> , 2019 , 10, 2895	17.4	8
17	Experimental Drainage Device to Reduce Lymphoedema in a Rat Model. <i>European Journal of Vascular and Endovascular Surgery</i> , 2019 , 57, 859-867	2.3	6
16	Lymphangiogenesis-inducing vaccines elicit potent and long-lasting T cell immunity against melanomas. <i>Science Advances</i> , 2021 , 7,	14.3	6

15	Polymersomes Decorated with the SARS-CoV-2 Spike Protein Receptor-Binding Domain Elicit Robust Humoral and Cellular Immunity. <i>ACS Central Science</i> , 2021 , 7, 1368-1380	16.8	5
14	Generation of potent cellular and humoral immunity against SARS-CoV-2 antigens via conjugation to a polymeric glyco-adjuvant. <i>Biomaterials</i> , 2021 , 278, 121159	15.6	5
13	Trojan horses for immunotherapy. <i>Nature Nanotechnology</i> , 2019 , 14, 196-197	28.7	4
12	Inflammatory lymphangiogenesis in postpartum breast tissue remodeling. <i>Journal of Clinical Investigation</i> , 2014 , 124, 3704-7	15.9	4
11	Masking the immunotoxicity of interleukin-12 by fusing it with a domain of its receptor via a tumour-protease-cleavable linker.. <i>Nature Biomedical Engineering</i> , 2022 ,	19	4
10	Lymphoidal chemokine CCL19 promoted the heterogeneity of the breast tumor cell motility within a 3D microenvironment revealed by a L α y distribution analysis. <i>Integrative Biology (United Kingdom)</i> , 2020 , 12, 12-20	3.7	3
9	Dorsal Ear Skin Window for Intravital Imaging and Functional Analysis of Lymphangiogenesis. <i>Methods in Molecular Biology</i> , 2018 , 1846, 261-277	1.4	3
8	Tissue mechanics: Cell jam. <i>Nature Materials</i> , 2015 , 14, 970-1	27	2
7	Pro-lymphangiogenic VEGFR-3 signaling modulates memory T cell responses in allergic airway inflammation. <i>Mucosal Immunology</i> , 2021 , 14, 144-151	9.2	2
6	Prolonged residence of an albumin-IL-4 fusion protein in secondary lymphoid organs ameliorates experimental autoimmune encephalomyelitis. <i>Nature Biomedical Engineering</i> , 2021 , 5, 387-398	19	2
5	Lymph Node-Targeted Synthetically Glycosylated Antigen Leads to Antigen-Specific Immunological Tolerance. <i>Frontiers in Immunology</i> , 2021 , 12, 714842	8.4	2
4	Adjuvant-free immunization with infective filarial larvae as lymphatic homing antigen carriers. <i>Scientific Reports</i> , 2020 , 10, 1055	4.9	0
3	Overcoming transport barriers to immunotherapy. <i>Drug Delivery and Translational Research</i> , 2021 , 11, 2273-2275	6.2	0
2	Active response of the lymphatic endothelium to acute inflammation vs. chronic lymphedema: in vivo and in vitro studies. <i>FASEB Journal</i> , 2007 , 21, A848	0.9	
1	ACTIVE REGULATION OF LIPID TRANSPORT AND METABOLISM BY LYMPHATICS: COMPLIMENTARY IN VIVO AND IN VITRO STUDIES. <i>FASEB Journal</i> , 2009 , 23, 813.2	0.9	