

Melody A Swartz

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/231432/publications.pdf>

Version: 2024-02-01

106
papers

16,646
citations

17405

63
h-index

28224

105
g-index

110
all docs

110
docs citations

110
times ranked

18304
citing authors

#	ARTICLE	IF	CITATIONS
1	Pathogenic Exploitation of Lymphatic Vessels. <i>Cells</i> , 2022, 11, 979.	1.8	6
2	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, 6, 819-829.	11.6	32
3	Pro-lymphangiogenic VEGFR-3 signaling modulates memory T cell responses in allergic airway inflammation. <i>Mucosal Immunology</i> , 2021, 14, 144-151.	2.7	8
4	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.	11.6	20
5	Lymphangiogenesis-inducing vaccines elicit potent and long-lasting T cell immunity against melanomas. <i>Science Advances</i> , 2021, 7, .	4.7	36
6	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.	5.3	21
7	Lymph Node-Targeted Synthetically Glycosylated Antigen Leads to Antigen-Specific Immunological Tolerance. <i>Frontiers in Immunology</i> , 2021, 12, 714842.	2.2	10
8	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.	5.7	23
9	Overcoming transport barriers to immunotherapy. <i>Drug Delivery and Translational Research</i> , 2021, 11, 2273-2275.	3.0	1
10	Growth factors with enhanced syndecan binding generate tonic signalling and promote tissue healing. <i>Nature Biomedical Engineering</i> , 2020, 4, 463-475.	11.6	53
11	Myeloid Cells Orchestrate Systemic Immunosuppression, Impairing the Efficacy of Immunotherapy against HPV+ Cancers. <i>Cancer Immunology Research</i> , 2020, 8, 131-145.	1.6	21
12	Lymphoidal chemokine CCL19 promoted the heterogeneity of the breast tumor cell motility within a 3D microenvironment revealed by a L��vy distribution analysis. <i>Integrative Biology (United Kingdom)</i> , 2020, 12, 12-20.	0.6	4
13	Adjuvant-free immunization with infective filarial larvae as lymphatic homing antigen carriers. <i>Scientific Reports</i> , 2020, 10, 1055.	1.6	1
14	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.	11.6	141
15	Lymphatic endothelial cells prime naïve CD8+ T cells into memory cells under steady-state conditions. <i>Nature Communications</i> , 2020, 11, 538.	5.8	50
16	Engineering Targeting Materials for Therapeutic Cancer Vaccines. <i>Frontiers in Bioengineering and Biotechnology</i> , 2020, 8, 19.	2.0	23
17	Experimental Drainage Device to Reduce Lymphoedema in a Rat Model. <i>European Journal of Vascular and Endovascular Surgery</i> , 2019, 57, 859-867.	0.8	13
18	Inherent biomechanical traits enable infective filariae to disseminate through collecting lymphatic vessels. <i>Nature Communications</i> , 2019, 10, 2895.	5.8	17

#	ARTICLE	IF	CITATIONS
19	Trojan horses for immunotherapy. <i>Nature Nanotechnology</i> , 2019, 14, 196-197.	15.6	8
20	Targeted antibody and cytokine cancer immunotherapies through collagen affinity. <i>Science Translational Medicine</i> , 2019, 11, .	5.8	134
21	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.	4.2	102
22	Combination of Synthetic Long Peptides and XCL1 Fusion Proteins Results in Superior Tumor Control. <i>Frontiers in Immunology</i> , 2019, 10, 294.	2.2	27
23	Recruitment of CD103 ⁺ dendritic cells via tumor-targeted chemokine delivery enhances efficacy of checkpoint inhibitor immunotherapy. <i>Science Advances</i> , 2019, 5, eaay1357.	4.7	87
24	Antigens reversibly conjugated to a polymeric glyco-adjuvant induce protective humoral and cellular immunity. <i>Nature Materials</i> , 2019, 18, 175-185.	13.3	172
25	Dorsal Ear Skin Window for Intravital Imaging and Functional Analysis of Lymphangiogenesis. <i>Methods in Molecular Biology</i> , 2018, 1846, 261-277.	0.4	8
26	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.	1.6	27
27	Lymphatic vessel density is associated with CD8 ⁺ T cell infiltration and immunosuppressive factors in human melanoma. <i>Oncotmunology</i> , 2018, 7, e1462878.	2.1	47
28	Immune Checkpoint Ligand PD-L1 Is Upregulated in Pulmonary Lymphangioleiomyomatosis. <i>American Journal of Respiratory Cell and Molecular Biology</i> , 2018, 59, 723-732.	1.4	37
29	Improving Efficacy and Safety of Agonistic Anti-CD40 Antibody Through Extracellular Matrix Affinity. <i>Molecular Cancer Therapeutics</i> , 2018, 17, 2399-2411.	1.9	34
30	Transcellular Pathways in Lymphatic Endothelial Cells Regulate Changes in Solute Transport by Fluid Stress. <i>Circulation Research</i> , 2017, 120, 1440-1452.	2.0	90
31	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.	5.7	92
32	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.	1.5	128
33	Vaccine nanocarriers: Coupling intracellular pathways and cellular biodistribution to control CD4 vs CD8 T cell responses. <i>Biomaterials</i> , 2017, 132, 48-58.	5.7	50
34	Oxidation-sensitive polymersomes as vaccine nanocarriers enhance humoral responses against Lassa virus envelope glycoprotein. <i>Virology</i> , 2017, 512, 161-171.	1.1	19
35	Tumor lymphangiogenesis promotes T cell infiltration and potentiates immunotherapy in melanoma. <i>Science Translational Medicine</i> , 2017, 9, .	5.8	174
36	Matrix-binding checkpoint immunotherapies enhance antitumor efficacy and reduce adverse events. <i>Science Translational Medicine</i> , 2017, 9, .	5.8	131

#	ARTICLE	IF	CITATIONS
37	Exploiting lymphatic vessels for immunomodulation: Rationale, opportunities, and challenges. <i>Advanced Drug Delivery Reviews</i> , 2017, 114, 43-59.	6.6	99
38	T Cells Redirected to a Minor Histocompatibility Antigen Instruct Intratumoral TNF α Expression and Empower Adoptive Cell Therapy for Solid Tumors. <i>Cancer Research</i> , 2017, 77, 658-671.	0.4	30
39	Primary Human and Rat β ² -Cells 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.	0.3	152
40	Perivascular Macrophages Limit Permeability. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2016, 36, 2203-2212.	1.1	97
41	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.	0.3	17
42	Fibronectin EDA and CpG synergize to enhance antigen-specific Th1 and cytotoxic responses. <i>Vaccine</i> , 2016, 34, 2453-2459.	1.7	16
43	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.	2.6	18
44	Connecting (T)issues: How Research in Fascia Biology Can Impact Integrative Oncology. <i>Cancer Research</i> , 2016, 76, 6159-6162.	0.4	34
45	Lymphatic vessels regulate immune microenvironments in human and murine melanoma. <i>Journal of Clinical Investigation</i> , 2016, 126, 3389-3402.	3.9	157
46	Nanoparticle conjugation enhances the immunomodulatory effects of intranasally delivered CpG in house dust mite-allergic mice. <i>Scientific Reports</i> , 2015, 5, 14274.	1.6	42
47	ADAM17 Promotes Motility, Invasion, and Sprouting of Lymphatic Endothelial Cells. <i>PLoS ONE</i> , 2015, 10, e0132661.	1.1	19
48	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, 1033-1046.	2.0	56
49	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, 5200-5210.	0.4	102
50	Cell jam. <i>Nature Materials</i> , 2015, 14, 970-971.	13.3	3
51	Combined CSL and p53 downregulation promotes cancer-associated fibroblast activation. <i>Nature Cell Biology</i> , 2015, 17, 1193-1204.	4.6	170
52	Engineering opportunities in cancer immunotherapy. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 14467-14472.	3.3	111
53	Immunomodulatory Roles of Lymphatic Vessels in Cancer Progression. <i>Cancer Immunology Research</i> , 2014, 2, 701-707.	1.6	76
54	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, 5002-5011.	0.4	178

#	ARTICLE	IF	CITATIONS
55	Optimization and regeneration kinetics of lymphatic-specific photodynamic therapy in the mouse dermis. <i>Angiogenesis</i> , 2014, 17, 347-357.	3.7	29
56	Growth Factors Engineered for Super-Affinity to the Extracellular Matrix Enhance Tissue Healing. <i>Science</i> , 2014, 343, 885-888.	6.0	406
57	Enhancing Efficacy of Anticancer Vaccines by Targeted Delivery to Tumor-Draining Lymph Nodes. <i>Cancer Immunology Research</i> , 2014, 2, 436-447.	1.6	165
58	Introduction to the special issue on lymphangiogenesis in inflammation. <i>Angiogenesis</i> , 2014, 17, 323-324.	3.7	4
59	Targeting the tumor-draining lymph node with adjuvanted nanoparticles reshapes the anti-tumor immune response. <i>Biomaterials</i> , 2014, 35, 814-824.	5.7	256
60	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, 1153-1166.	4.2	210
61	Emerging roles of lymphatic endothelium in regulating adaptive immunity. <i>Journal of Clinical Investigation</i> , 2014, 124, 943-952.	3.9	188
62	Inflammatory lymphangiogenesis in postpartum breast tissue remodeling. <i>Journal of Clinical Investigation</i> , 2014, 124, 3704-3707.	3.9	4
63	Long-term Intravital Immunofluorescence Imaging of Tissue Matrix Components with Epifluorescence and Two-photon Microscopy. <i>Journal of Visualized Experiments</i> , 2014, , .	0.2	17
64	VEGFR-3 Neutralization Inhibits Ovarian Lymphangiogenesis, Follicle Maturation, and Murine Pregnancy. <i>American Journal of Pathology</i> , 2013, 183, 1596-1607.	1.9	22
65	Engineering synthetic vaccines using cues from natural immunity. <i>Nature Materials</i> , 2013, 12, 978-990.	13.3	500
66	Tunable T cell immunity towards a protein antigen using polymersomes vs. solid-core nanoparticles. <i>Biomaterials</i> , 2013, 34, 4339-4346.	5.7	116
67	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, 19902-19907.	3.3	223
68	Normal Dendritic Cell Mobilization to Lymph Nodes under Conditions of Severe Lymphatic Hypoplasia. <i>Journal of Immunology</i> , 2013, 190, 4608-4620.	0.4	53
69	Intravital Immunofluorescence for Visualizing the Microcirculatory and Immune Microenvironments in the Mouse Ear Dermis. <i>PLoS ONE</i> , 2013, 8, e57135.	1.1	56
70	Peripherally Administered Nanoparticles Target Monocytic Myeloid Cells, Secondary Lymphoid Organs and Tumors in Mice. <i>PLoS ONE</i> , 2013, 8, e61646.	1.1	116
71	Impaired Humoral Immunity and Tolerance in K14-VEGFR-3-Ig Mice That Lack Dermal Lymphatic Drainage. <i>Journal of Immunology</i> , 2012, 189, 2181-2190.	0.4	111
72	Interstitial Fluid and Lymph Formation and Transport: Physiological Regulation and Roles in Inflammation and Cancer. <i>Physiological Reviews</i> , 2012, 92, 1005-1060.	13.1	538

#	ARTICLE	IF	CITATIONS
73	Engineering Approaches to Immunotherapy. Science Translational Medicine, 2012, 4, 148rv9.	5.8	194
74	VEGF-C Promotes Immune Tolerance in B16 Melanomas and Cross-Presentation of Tumor Antigen by Lymph Node Lymphatics. Cell Reports, 2012, 1, 191-199.	2.9	284
75	Lymphatic and interstitial flow in the tumour microenvironment: linking mechanobiology with immunity. Nature Reviews Cancer, 2012, 12, 210-219.	12.8	461
76	Dendritic cell activation and T cell priming with adjuvant- and antigen-loaded oxidation-sensitive polymersomes. Biomaterials, 2012, 33, 6211-6219.	5.7	206
77	Nanoparticle conjugation of antigen enhances cytotoxic T-cell responses in pulmonary vaccination. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, E989-97.	3.3	160
78	Nanoparticle conjugation and pulmonary delivery enhance the protective efficacy of Ag85B and CpG against tuberculosis. Vaccine, 2011, 29, 6959-6966.	1.7	107
79	Regulation of tumor invasion by interstitial fluid flow. Physical Biology, 2011, 8, 015012.	0.8	96
80	Nano-sized drug-loaded micelles deliver payload to lymph node immune cells and prolong allograft survival. Journal of Controlled Release, 2011, 156, 154-160.	4.8	90
81	Induction of Lymphoidlike Stroma and Immune Escape by Tumors That Express the Chemokine CCL21. Science, 2010, 328, 749-752.	6.0	429
82	Transmural Flow Modulates Cell and Fluid Transport Functions of Lymphatic Endothelium. Circulation Research, 2010, 106, 920-931.	2.0	207
83	Antigen delivery to dendritic cells by poly(propylene sulfide) nanoparticles with disulfide conjugated peptides: Cross-presentation and T cell activation. Vaccine, 2010, 28, 7897-7906.	1.7	199
84	Vascular Endothelial Growth Factor-C and C-C Chemokine Receptor 7 in Tumor Cells—Lymphatic Cross-talk Promote Invasive Phenotype. Cancer Research, 2009, 69, 349-357.	0.4	169
85	A tissue-engineered model of the intestinal lacteal for evaluating lipid transport by lymphatics. Biotechnology and Bioengineering, 2009, 103, 1224-1235.	1.7	73
86	ACTIVE REGULATION OF LIPID TRANSPORT AND METABOLISM BY LYMPHATICS: COMPLIMENTARY IN VIVO AND IN VITRO STUDIES. FASEB Journal, 2009, 23, 813.2.	0.2	0
87	Lymphatic drainage function and its immunological implications: From dendritic cell homing to vaccine design. Seminars in Immunology, 2008, 20, 147-156.	2.7	126
88	Cooperative and redundant roles of VEGFR α 2 and VEGFR α 3 signaling in adult lymphangiogenesis. FASEB Journal, 2007, 21, 1003-1012.	0.2	126
89	Interstitial Flow and Its Effects in Soft Tissues. Annual Review of Biomedical Engineering, 2007, 9, 229-256.	5.7	491
90	Exploiting lymphatic transport and complement activation in nanoparticle vaccines. Nature Biotechnology, 2007, 25, 1159-1164.	9.4	1,142

#	ARTICLE	IF	CITATIONS
91	Autologous Chemotaxis as a Mechanism of Tumor Cell Homing to Lymphatics via Interstitial Flow and Autocrine CCR7 Signaling. <i>Cancer Cell</i> , 2007, 11, 526-538.	7.7	483
92	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.	0.2	0
93	Secondary lymphedema in the mouse tail: Lymphatic hyperplasia, VEGF-C upregulation, and the protective role of MMP-9. <i>Microvascular Research</i> , 2006, 72, 161-171.	1.1	207
94	In vivo targeting of dendritic cells in lymph nodes with poly(propylene sulfide) nanoparticles. <i>Journal of Controlled Release</i> , 2006, 112, 26-34.	4.8	605
95	Characterization of lymphangiogenesis in a model of adult skin regeneration. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2006, 291, H1402-H1410.	1.5	135
96	Dendritic-cell trafficking to lymph nodes through lymphatic vessels. <i>Nature Reviews Immunology</i> , 2005, 5, 617-628.	10.6	989
97	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.	3.0	226
98	Interstitial fluid flow induces myofibroblast differentiation and collagen alignment in vitro. <i>Journal of Cell Science</i> , 2005, 118, 4731-4739.	1.2	322
99	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, 15779-15784.	3.3	254
100	Overexpression of VEGF-C Causes Transient Lymphatic Hyperplasia but Not Increased Lymphangiogenesis in Regenerating Skin. <i>Circulation Research</i> , 2005, 96, 1193-1199.	2.0	108
101	Interstitial flow differentially stimulates blood and lymphatic endothelial cell morphogenesis in vitro. <i>Microvascular Research</i> , 2004, 68, 258-264.	1.1	189
102	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-H1777.	1.5	148
103	Interstitial Flow as a Guide for Lymphangiogenesis. <i>Circulation Research</i> , 2003, 92, 801-808.	2.0	263
104	Lymphatic function, lymphangiogenesis, and cancer metastasis. <i>Microscopy Research and Technique</i> , 2001, 55, 92-99.	1.2	157
105	Mechanics of interstitial-lymphatic fluid transport: theoretical foundation and experimental validation. <i>Journal of Biomechanics</i> , 1999, 32, 1297-1307.	0.9	140
106	Hyperplasia of Lymphatic Vessels in VEGF-C Transgenic Mice. <i>Science</i> , 1997, 276, 1423-1425.	6.0	1,160