

Susan N Thomas

List of Publications by Year in descending order

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71
papers

3,842
citations

172457

29
h-index

123424

61
g-index

73
all docs

73
docs citations

73
times ranked

5352
citing authors

#	ARTICLE	IF	CITATIONS
1	Materials engineering for immunomodulation. <i>Nature</i> , 2009, 462, 449-460.	27.8	493
2	Material design for lymph node drug delivery. <i>Nature Reviews Materials</i> , 2019, 4, 415-428.	48.7	288
3	VEGF-C Promotes Immune Tolerance in B16 Melanomas and Cross-Presentation of Tumor Antigen by Lymph Node Lymphatics. <i>Cell Reports</i> , 2012, 1, 191-199.	6.4	284
4	Targeting the tumor-draining lymph node with adjuvanted nanoparticles reshapes the anti-tumor immune response. <i>Biomaterials</i> , 2014, 35, 814-824.	11.4	256
5	Cancer Cells in Transit: The Vascular Interactions of Tumor Cells. <i>Annual Review of Biomedical Engineering</i> , 2009, 11, 177-202.	12.3	193
6	Carcinoembryonic Antigen and CD44 Variant Isoforms Cooperate to Mediate Colon Carcinoma Cell Adhesion to E- and L-selectin in Shear Flow. <i>Journals of Biological Chemistry</i> , 2008, 283, 15647-15655.	3.4	156
7	Blockade of immune checkpoints in lymph nodes through locoregional delivery augments cancer immunotherapy. <i>Science Translational Medicine</i> , 2020, 12, .	12.4	142
8	Size- and charge-dependent non-specific uptake of PEGylated nanoparticles by macrophages. <i>International Journal of Nanomedicine</i> , 2012, 7, 799.	6.7	126
9	Engineering complement activation on polypropylene sulfide vaccine nanoparticles. <i>Biomaterials</i> , 2011, 32, 2194-2203.	11.4	120
10	Impaired Humoral Immunity and Tolerance in <i>K14-VEGFR-3-Ig</i> Mice That Lack Dermal Lymphatic Drainage. <i>Journal of Immunology</i> , 2012, 189, 2181-2190.	0.8	111
11	Variant isoforms of CD44 are E- and L-selectin ligands on colon carcinoma cells. <i>FASEB Journal</i> , 2006, 20, 337-339.	0.5	107
12	Selectin Ligand Expression Regulates the Initial Vascular Interactions of Colon Carcinoma Cells. <i>Journal of Biological Chemistry</i> , 2007, 282, 3433-3441.	3.4	96
13	Overcoming transport barriers for interstitial-, lymphatic-, and lymph node-targeted drug delivery. <i>Current Opinion in Chemical Engineering</i> , 2015, 7, 65-74.	7.8	95
14	Programmable multistage drug delivery to lymph nodes. <i>Nature Nanotechnology</i> , 2020, 15, 491-499.	31.5	86
15	The dual role of CD44 as a functional P-selectin ligand and fibrin receptor in colon carcinoma cell adhesion. <i>American Journal of Physiology - Cell Physiology</i> , 2008, 294, C907-C916.	4.6	82
16	Progress and opportunities for enhancing the delivery and efficacy of checkpoint inhibitors for cancer immunotherapy. <i>Advanced Drug Delivery Reviews</i> , 2017, 114, 33-42.	13.7	81
17	Implications of Lymphatic Transport to Lymph Nodes in Immunity and Immunotherapy. <i>Annual Review of Biomedical Engineering</i> , 2016, 18, 207-233.	12.3	79
18	Podocalyxin-like protein is an E-/L-selectin ligand on colon carcinoma cells: comparative biochemical properties of selectin ligands in host and tumor cells. <i>American Journal of Physiology - Cell Physiology</i> , 2009, 296, C505-C513.	4.6	75

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19	Flexible Macromolecule versus Rigid Particle Retention in the Injected Skin and Accumulation in Draining Lymph Nodes Are Differentially Influenced by Hydrodynamic Size. ACS Biomaterials Science and Engineering, 2017, 3, 153-159.	5.2	65
20	Thermosensitive hydrogel releasing nitric oxide donor and anti-CTLA-4 micelles for anti-tumor immunotherapy. Nature Communications, 2022, 13, 1479.	12.8	61
21	A rapid method for determining protein diffusion through hydrogels for regenerative medicine applications. APL Bioengineering, 2018, 2, 026110.	6.2	50
22	Divergent roles of CD44 and carcinoembryonic antigen in colon cancer metastasis. FASEB Journal, 2012, 26, 2648-2656.	0.5	48
23	Preferential binding of platelets to monocytes over neutrophils under flow. Biochemical and Biophysical Research Communications, 2005, 329, 345-355.	2.1	42
24	Lymph node biophysical remodeling is associated with melanoma lymphatic drainage. FASEB Journal, 2015, 29, 4512-4522.	0.5	41
25	Identification, characterization and utilization of tumor cell selectin ligands in the design of colon cancer diagnostics. Biorheology, 2009, 46, 207-225.	0.4	40
26	Melanoma growth effects on molecular clearance from tumors and biodistribution into systemic tissues versus draining lymph nodes. Journal of Controlled Release, 2016, 223, 99-108.	9.9	36
27	Phosphoinositide 3-Kinase Signaling Can Modulate MHC Class I and II Expression. Molecular Cancer Research, 2019, 17, 2395-2409.	3.4	36
28	Photothermal and photodynamic activity of polymeric nanoparticles based on α -tocopheryl succinate-RAFT block copolymers conjugated to IR-780. Acta Biomaterialia, 2017, 57, 70-84.	8.3	35
29	Poly(cyclodextrin)-Polydrug Nanocomplexes as Synthetic Oncolytic Virus for Locoregional Melanoma Chemoimmunotherapy. Advanced Functional Materials, 2020, 30, 1908788.	14.9	33
30	The Biophysics of Lymphatic Transport: Engineering Tools and Immunological Consequences. IScience, 2019, 22, 28-43.	4.1	31
31	PEG-b-PPS-b-PEI micelles and PEG-b-PPS/PEG-b-PPS-b-PEI mixed micelles as non-viral vectors for plasmid DNA: Tumor immunotoxicity in B16F10 melanoma. Biomaterials, 2011, 32, 9839-9847.	11.4	30
32	Augmenting the synergies of chemotherapy and immunotherapy through drug delivery. Acta Biomaterialia, 2019, 88, 1-14.	8.3	29
33	Quantitative Trait Loci for Apolipoprotein B, Cholesterol, and Triglycerides in Familial Combined Hyperlipidemia Pedigrees. Arteriosclerosis, Thrombosis, and Vascular Biology, 2004, 24, 1935-1941.	2.4	28
34	Lymphatic immunomodulation using engineered drug delivery systems for cancer immunotherapy. Advanced Drug Delivery Reviews, 2020, 160, 19-35.	13.7	27
35	Lymph Node Subcapsular Sinus Microenvironment-On-A-Chip Modeling Shear Flow Relevant to Lymphatic Metastasis and Immune Cell Homing. IScience, 2020, 23, 101751.	4.1	25
36	Quality of CD8 ⁺ T cell immunity evoked in lymph nodes is compartmentalized by route of antigen transport and functional in tumor context. Science Advances, 2020, 6, .	10.3	24

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37	Targeted Therapies: Immunologic Effects and Potential Applications Outside of Cancer. <i>Journal of Clinical Pharmacology</i> , 2018, 58, 7-24.	2.0	23
38	Tumor-draining lymph nodes are survival niches that support T cell priming against lymphatic transported tumor antigen and effects of immune checkpoint blockade in TNBC. <i>Cancer Immunology, Immunotherapy</i> , 2021, 70, 2179-2195.	4.2	22
39	Winner of the society for biomaterials young investigator award for the annual meeting of the society for biomaterials, April 11-14, 2018, Atlanta, GA: S-nitrosated poly(propylene sulfide) nanoparticles for enhanced nitric oxide delivery to lymphatic tissues. <i>Journal of Biomedical Materials Research - Part A</i> , 2018, 106, 1463-1475.	4.0	19
40	Thiol-TOS-based RAFT block copolymers and their NPs for the treatment of cancer. <i>Polymer Chemistry</i> , 2016, 7, 838-850.	3.9	18
41	Lymph-directed nitric oxide increases immune cell access to lymph-borne nanoscale solutes. <i>Biomaterials</i> , 2021, 265, 120411.	11.4	16
42	In Situ Crosslinked Hydrogel Depot for Sustained Antibody Release Improves Immune Checkpoint Blockade Cancer Immunotherapy. <i>Nanomaterials</i> , 2021, 11, 471.	4.1	15
43	Analytical cell adhesion chromatography reveals impaired persistence of metastatic cell rolling adhesion to P-selectin. <i>Journal of Cell Science</i> , 2015, 128, 3731-43.	2.0	14
44	Innovations in lymph node targeting nanocarriers. <i>Seminars in Immunology</i> , 2021, 56, 101534.	5.6	14
45	Localized SDF-1 α Delivery Increases Pro-Healing Bone Marrow-Derived Cells in the Supraspinatus Muscle Following Severe Rotator Cuff Injury. <i>Regenerative Engineering and Translational Medicine</i> , 2018, 4, 92-103.	2.9	13
46	Biomaterials for Modulating Lymphatic Function in Immunoengineering. <i>ACS Pharmacology and Translational Science</i> , 2019, 2, 293-310.	4.9	13
47	Synthetic Matrix Scaffolds Engineer the In Vivo Tumor Immune Microenvironment for Immunotherapy Screening. <i>Advanced Materials</i> , 2022, 34, e2108084.	21.0	13
48	P-Selectin and ICAM-1 synergy in mediating THP-1 monocyte adhesion in hemodynamic flow is length dependent. <i>Integrative Biology (United Kingdom)</i> , 2017, 9, 313-327.	1.3	12
49	Fluorometric Quantification of Single-Cell Velocities to Investigate Cancer Metastasis. <i>Cell Systems</i> , 2018, 7, 496-509.e6.	6.2	11
50	The Kinetics of Lymphatic Dysfunction and Leukocyte Expansion in the Draining Lymph Node during LTB4 Antagonism in a Mouse Model of Lymphedema. <i>International Journal of Molecular Sciences</i> , 2021, 22, 4455.	4.1	10
51	Drug-eluting immune checkpoint blockade antibody-nanoparticle conjugate enhances locoregional and systemic combination cancer immunotherapy through T lymphocyte targeting. <i>Biomaterials</i> , 2021, 279, 121184.	11.4	10
52	S-nitrosated Polypropylene Sulfide Nanoparticles for Thiol-Dependent Transnitrosation and Toxicity Against Adult Female Filarial Worms. <i>Advanced Healthcare Materials</i> , 2015, 4, 1484-1490.	7.6	9
53	Analyzing Mechanisms of Metastatic Cancer Cell Adhesive Phenotype Leveraging Preparative Adhesion Chromatography Microfluidic. <i>Advanced Biology</i> , 2019, 3, e1800328.	3.0	9
54	Quantitation of lymphatic transport mechanism and barrier influences on lymph node-resident leukocyte access to lymph-borne macromolecules and drug delivery systems. <i>Drug Delivery and Translational Research</i> , 2021, 11, 2328-2343.	5.8	8

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55	P-, but not E- or L-, selectin-mediated rolling adhesion persistence in hemodynamic flow diverges between metastatic and leukocytic cells. <i>Oncotarget</i> , 2017, 8, 83585-83601.	1.8	8
56	Force and torque on spherical particles in micro-channel flows using computational fluid dynamics. <i>Royal Society Open Science</i> , 2016, 3, 160298.	2.4	7
57	Enhanced Bioactivity of α -Tocopheryl Succinate Based Block Copolymer Nanoparticles by Reduced Hydrophobicity. <i>Macromolecular Bioscience</i> , 2016, 16, 1824-1837.	4.1	7
58	Hematogenous Metastasis: Roles of CD44v and Alternative Sialofucosylated Selectin Ligands. <i>Advances in Experimental Medicine and Biology</i> , 2011, 705, 601-619.	1.6	4
59	Optimization of culture and analysis methods for enhancing long-term <i>Brugia malayi</i> survival, molting and motility in vitro. <i>Parasitology Open</i> , 2018, 4, .	0.9	4
60	Photoconversion and chromatographic microfluidic system reveals differential cellular phenotypes of adhesion velocity versus persistence in shear flow. <i>Lab on A Chip</i> , 2020, 20, 806-822.	6.0	2
61	Triple threat to colorectal cancer. <i>Science Translational Medicine</i> , 2016, 8, .	12.4	2
62	Committing CAR T cells to memory. <i>Science Translational Medicine</i> , 2016, 8, 370ec205.	12.4	2
63	Antiangiogenic cancer drug drives lymphangiogenic metastasis. <i>Science Translational Medicine</i> , 2017, 9, .	12.4	2
64	Microfluidic Platforms for the Interrogation of Intravascular Cellular Trafficking Mechanisms Influenced by Hemodynamic Forces. , 2016, , 197-218.		1
65	Biomaterials for Immunoengineering. , 2020, , 1199-1215.		1
66	Drugging the lymphatic system: An emerging opportunity for cancer immunotherapy. <i>Advanced Drug Delivery Reviews</i> , 2021, 180, 114040.	13.7	1
67	I heart lymphatics. <i>Science Translational Medicine</i> , 2016, 8, .	12.4	0
68	Nanoparticle gets the worm. <i>Science Translational Medicine</i> , 2016, 8, .	12.4	0
69	Lym(fat)ics. <i>Science Translational Medicine</i> , 2016, 8, .	12.4	0
70	Cancer catch and sugar release cue immune attack. <i>Science Translational Medicine</i> , 2016, 8, .	12.4	0
71	T regulating lymphedema. <i>Science Translational Medicine</i> , 2016, 8, .	12.4	0