Susan N Thomas

List of Publications by Year
in descending order

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	Synthetic Matrix Scaffolds Engineer the In Vivo Tumor Immune Microenvironment for Immunotherapy Screening. Advanced Materials, 2022, 34, e2108084.	21.0	13
2	Thermosensitive hydrogel releasing nitric oxide donor and anti-CTLA-4 micelles for anti-tumor immunotherapy. Nature Communications, 2022, 13, 1479.	12.8	61
3	Lymph-directed nitric oxide increases immune cell access to lymph-borne nanoscale solutes. Biomaterials, 2021, 265, 120411.	11.4	16
4	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. Cancer Immunology, Immunotherapy, 2021, 70, 2179-2195.	4.2	22
5	In Situ Crosslinked Hydrogel Depot for Sustained Antibody Release Improves Immune Checkpoint Blockade Cancer Immunotherapy. Nanomaterials, 2021, 11, 471.	4.1	15
6	The Kinetics of Lymphatic Dysfunction and Leukocyte Expansion in the Draining Lymph Node during LTB4 Antagonism in a Mouse Model of Lymphedema. International Journal of Molecular Sciences, 2021, 22, 4455.	4.1	10
7	Quantitation of lymphatic transport mechanism and barrier influences on lymph node-resident leukocyte access to lymph-borne macromolecules and drug delivery systems. Drug Delivery and Translational Research, 2021, 11, 2328-2343.	5.8	8
8	Drug-eluting immune checkpoint blockade antibody-nanoparticle conjugate enhances locoregional and systemic combination cancer immunotherapy through T lymphocyte targeting. Biomaterials, 2021, 279, 121184.	11.4	10
9	Drugging the lymphatic system: An emerging opportunity for cancer immunotherapy. Advanced Drug Delivery Reviews, 2021, 180, 114040.	13.7	1
10	Innovations in lymph node targeting nanocarriers. Seminars in Immunology, 2021, 56, 101534.	5.6	14
11	Blockade of immune checkpoints in lymph nodes through locoregional delivery augments cancer immunotherapy. Science Translational Medicine, 2020, 12, .	12.4	142
12	Lymphatic immunomodulation using engineered drug delivery systems for cancer immunotherapy. Advanced Drug Delivery Reviews, 2020, 160, 19-35.	13.7	27
13	Lymph Node Subcapsular Sinus Microenvironment-On-A-ChipÂModeling Shear Flow Relevant to Lymphatic Metastasis and Immune Cell Homing. IScience, 2020, 23, 101751.	4.1	25
14	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
15	Programmable multistage drug delivery to lymph nodes. Nature Nanotechnology, 2020, 15, 491-499.	31.5	86
16	Biomaterials for Immunoengineering. , 2020, , 1199-1215.		1
17	Poly(cyclodextrin)â€Polydrug Nanocomplexes as Synthetic Oncolytic Virus for Locoregional Melanoma Chemoimmunotherapy. Advanced Functional Materials, 2020, 30, 1908788.	14.9	33
18	Photoconversion and chromatographic microfluidic system reveals differential cellular phenotypes of adhesion velocity versus persistence in shear flow. Lab on A Chip, 2020, 20, 806-822.	6.0	2

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19	Biomaterials for Modulating Lymphatic Function in Immunoengineering. ACS Pharmacology and Translational Science, 2019, 2, 293-310.	4.9	13
20	Phosphoinositide 3-Kinase Signaling Can Modulate MHC Class I and II Expression. Molecular Cancer Research, 2019, 17, 2395-2409.	3.4	36
21	Material design for lymph node drug delivery. Nature Reviews Materials, 2019, 4, 415-428.	48.7	288
22	Analyzing Mechanisms of Metastatic Cancer Cell Adhesive Phenotype Leveraging Preparative Adhesion Chromatography Microfluidic. Advanced Biology, 2019, 3, e1800328.	3.0	9
23	Augmenting the synergies of chemotherapy and immunotherapy through drug delivery. Acta Biomaterialia, 2019, 88, 1-14.	8.3	29
24	The Biophysics of Lymphatic Transport: Engineering Tools and Immunological Consequences. IScience, 2019, 22, 28-43.	4.1	31
25	Optimization of culture and analysis methods for enhancing long-term Brugia malayi survival, molting and motility in vitro. Parasitology Open, 2018, 4, .	0.9	4
26	Winner of the society for biomaterials young investigator award for the annual meeting of the society for biomaterials, April 11â€“14, 2018, Atlanta, GA: Sâ€nitrosated poly(propylene sulfide) nanoparticles for enhanced nitric oxide delivery to lymphatic tissues. Journal of Biomedical Materials Research - Part A, 2018, 106, 1463-1475.	4.0	19
27	Targeted Therapies: Immunologic Effects and Potential Applications Outside of Cancer. Journal of Clinical Pharmacology, 2018, 58, 7-24.	2.0	23
28	Fluorometric Quantification of Single-Cell Velocities to Investigate Cancer Metastasis. Cell Systems, 2018, 7, 496-509.e6.	6.2	11
29	A rapid method for determining protein diffusion through hydrogels for regenerative medicine applications. APL Bioengineering, 2018, 2, 026110.	6.2	50
30	Localized SDF-1Î± Delivery Increases Pro-Healing Bone Marrow-Derived Cells in the Supraspinatus Muscle Following Severe Rotator Cuff Injury. Regenerative Engineering and Translational Medicine, 2018, 4, 92-103.	2.9	13
31	P-Selectin and ICAM-1 synergy in mediating THP-1 monocyte adhesion in hemodynamic flow is length dependent. Integrative Biology (United Kingdom), 2017, 9, 313-327.	1.3	12
32	Photothermal and photodynamic activity of polymeric nanoparticles based on Î±-tocopheryl succinate-RAFT block copolymers conjugated to IR-780. Acta Biomaterialia, 2017, 57, 70-84.	8.3	35
33	Progress and opportunities for enhancing the delivery and efficacy of checkpoint inhibitors for cancer immunotherapy. Advanced Drug Delivery Reviews, 2017, 114, 33-42.	13.7	81
34	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
35	Antiangiogenic cancer drug drives lymphangiogenic metastasis. Science Translational Medicine, 2017, 9, .	12.4	2
36	P-, but not E- or L-, selectin-mediated rolling adhesion persistence in hemodynamic flow diverges between metastatic and leukocytic cells. Oncotarget, 2017, 8, 83585-83601.	1.8	8

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37	Force and torque on spherical particles in micro-channel flows using computational fluid dynamics. Royal Society Open Science, 2016, 3, 160298.	2.4	7
38	Implications of Lymphatic Transport to Lymph Nodes in Immunity and Immunotherapy. Annual Review of Biomedical Engineering, 2016, 18, 207-233.	12.3	79
39	Enhanced Bioactivity of Î±â€Tocopheryl Succinate Based Block Copolymer Nanoparticles by Reduced Hydrophobicity. Macromolecular Bioscience, 2016, 16, 1824-1837.	4.1	7
40	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
41	Î±-TOS-based RAFT block copolymers and their NPs for the treatment of cancer. Polymer Chemistry, 2016, 7, 838-850.	3.9	18
42	Microfluidic Platforms for the Interrogation of Intravascular Cellular Trafficking Mechanisms Influenced by Hemodynamic Forces. , 2016, , 197-218.		1
43	Triple threat to colorectal cancer. Science Translational Medicine, 2016, 8, .	12.4	2
44	Committing CAR T cells to memory. Science Translational Medicine, 2016, 8, 370ec205.	12.4	2
45	I heart lymphatics. Science Translational Medicine, 2016, 8, .	12.4	0
46	Nanoparticle gets the worm. Science Translational Medicine, 2016, 8, .	12.4	0
47	Lym(fat)ics. Science Translational Medicine, 2016, 8, .	12.4	0
48	Cancer catch and sugar release cue immune attack. Science Translational Medicine, 2016, 8, .	12.4	0
49	T regulating lymphedema. Science Translational Medicine, 2016, 8, .	12.4	0
50	Lymph node biophysical remodeling is associated with melanoma lymphatic drainage. FASEB Journal, 2015, 29, 4512-4522.	0.5	41
51	Sâ€Nitrosated Polypropylene Sulfide Nanoparticles for Thiolâ€Dependent Transnitrosation and Toxicity Against Adult Female Filarial Worms. Advanced Healthcare Materials, 2015, 4, 1484-1490.	7.6	9
52	Analytical cell adhesion chromatography reveals impaired persistence of metastatic cell rolling adhesion to P-selectin. Journal of Cell Science, 2015, 128, 3731-43.	2.0	14
53	Overcoming transport barriers for interstitial-, lymphatic-, and lymph node-targeted drug delivery. Current Opinion in Chemical Engineering, 2015, 7, 65-74.	7.8	95
54	Targeting the tumor-draining lymph node with adjuvanted nanoparticles reshapes the anti-tumor immune response. Biomaterials, 2014, 35, 814-824.	11.4	256

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55	Impaired Humoral Immunity and Tolerance in K14-VEGFR-3-Ig Mice That Lack Dermal Lymphatic Drainage. Journal of Immunology, 2012, 189, 2181-2190.	0.8	111
56	Size- and charge-dependent non-specific uptake of PEGylated nanoparticles by macrophages. International Journal of Nanomedicine, 2012, 7, 799.	6.7	126
57	VEGF-C Promotes Immune Tolerance in B16 Melanomas and Cross-Presentation of Tumor Antigen by Lymph Node Lymphatics. Cell Reports, 2012, 1, 191-199.	6.4	284
58	Divergent roles of CD44 and carcinoembryonic antigen in colon cancer metastasis. FASEB Journal, 2012, 26, 2648-2656.	0.5	48
59	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
60	Hematogenous Metastasis: Roles of CD44v and Alternative Sialofucosylated Selectin Ligands. Advances in Experimental Medicine and Biology, 2011, 705, 601-619.	1.6	4
61	Engineering complement activation on polypropylene sulfide vaccine nanoparticles. Biomaterials, 2011, 32, 2194-2203.	11.4	120
62	Identification, characterization and utilization of tumor cell selectin ligands in the design of colon cancer diagnostics. Biorheology, 2009, 46, 207-225.	0.4	40
63	Podocalyxin-like protein is an E-/L-selectin ligand on colon carcinoma cells: comparative biochemical properties of selectin ligands in host and tumor cells. American Journal of Physiology - Cell Physiology, 2009, 296, C505-C513.	4.6	75
64	Materials engineering for immunomodulation. Nature, 2009, 462, 449-460.	27.8	493
65	Cancer Cells in Transit: The Vascular Interactions of Tumor Cells. Annual Review of Biomedical Engineering, 2009, 11, 177-202.	12.3	193
66	Carcinoembryonic Antigen and CD44 Variant Isoforms Cooperate to Mediate Colon Carcinoma Cell Adhesion to E- and L-selectin in Shear Flow. Journal of Biological Chemistry, 2008, 283, 15647-15655.	3.4	156
67	The dual role of CD44 as a functional P-selectin ligand and fibrin receptor in colon carcinoma cell adhesion. American Journal of Physiology - Cell Physiology, 2008, 294, C907-C916.	4.6	82
68	Selectin Ligand Expression Regulates the Initial Vascular Interactions of Colon Carcinoma Cells. Journal of Biological Chemistry, 2007, 282, 3433-3441.	3.4	96
69	Variant isoforms of CD44 are Pâ€•and Lâ€selectin ligands on colon carcinoma cells. FASEB Journal, 2006, 20, 337-339.	0.5	107
70	Preferential binding of platelets to monocytes over neutrophils under flow. Biochemical and Biophysical Research Communications, 2005, 329, 345-355.	2.1	42
71	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