

# Jonathan W Song

## List of Publications by Year in descending order

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56  
papers

3,001  
citations

361413

20  
h-index

265206

42  
g-index

63  
all docs

63  
docs citations

63  
times ranked

4899  
citing authors

#	ARTICLE	IF	CITATIONS
1	Fluid forces control endothelial sprouting. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 15342-15347.	7.1	432
2	Consensus guidelines for the use and interpretation of angiogenesis assays. <i>Angiogenesis</i> , 2018, 21, 425-532.	7.2	429
3	Ang-2/VEGF bispecific antibody reprograms macrophages and resident microglia to anti-tumor phenotype and prolongs glioblastoma survival. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 4476-4481.	7.1	287
4	Microfluidic Endothelium for Studying the Intravascular Adhesion of Metastatic Breast Cancer Cells. <i>PLoS ONE</i> , 2009, 4, e5756.	2.5	283
5	Computer-Controlled Microcirculatory Support System for Endothelial Cell Culture and Shearing. <i>Analytical Chemistry</i> , 2005, 77, 3993-3999.	6.5	224
6	Quantitative measurement and control of oxygen levels in microfluidic poly(dimethylsiloxane) bioreactors during cell culture. <i>Biomedical Microdevices</i> , 2007, 9, 123-134.	2.8	216
7	Characterization and Resolution of Evaporation-Mediated Osmolality Shifts That Constrain Microfluidic Cell Culture in Poly(dimethylsiloxane) Devices. <i>Analytical Chemistry</i> , 2007, 79, 1126-1134.	6.5	214
8	Individually programmable cell stretching microwell arrays actuated by a Braille display. <i>Biomaterials</i> , 2008, 29, 2646-2655.	11.4	114
9	Engineering Cell Surface Function with DNA Origami. <i>Advanced Materials</i> , 2017, 29, 1703632.	21.0	101
10	Handheld recirculation system and customized media for microfluidic cell culture. <i>Lab on A Chip</i> , 2006, 6, 149-154.	6.0	88
11	Anastomosis of endothelial sprouts forms new vessels in a tissue analogue of angiogenesis. <i>Integrative Biology (United Kingdom)</i> , 2012, 4, 857.	1.3	85
12	Stromal PDGFR- $\beta$ Activation Enhances Matrix Stiffness, Impedes Mammary Ductal Development, and Accelerates Tumor Growth. <i>Neoplasia</i> , 2017, 19, 496-508.	5.3	50
13	RhoA mediates flow-induced endothelial sprouting in a 3-D tissue analogue of angiogenesis. <i>Lab on A Chip</i> , 2012, 12, 5000.	6.0	44
14	Microfluidic approaches to the study of angiogenesis and the microcirculation. <i>Microcirculation</i> , 2017, 24, e12363.	1.8	42
15	Flow dynamics control endothelial permeability in a microfluidic vessel bifurcation model. <i>Lab on A Chip</i> , 2018, 18, 1084-1093.	6.0	42
16	Disruption of stromal hedgehog signaling initiates RNF5-mediated proteasomal degradation of PTEN and accelerates pancreatic tumor growth. <i>Life Science Alliance</i> , 2018, 1, e201800190.	2.8	33
17	Heparan sulfate proteoglycans mediate renal carcinoma metastasis. <i>International Journal of Cancer</i> , 2016, 139, 2791-2801.	5.1	28
18	Flow-induced HDAC1 phosphorylation and nuclear export in angiogenic sprouting. <i>Scientific Reports</i> , 2016, 6, 34046.	3.3	27

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19	Application of 3-D Microfluidic Models for Studying Mass Transport Properties of the Tumor Interstitial Matrix. <i>Frontiers in Bioengineering and Biotechnology</i> , 2019, 7, 6.	4.1	26
20	Competing Fluid Forces Control Endothelial Sprouting in a 3-D Microfluidic Vessel Bifurcation Model. <i>Micromachines</i> , 2019, 10, 451.	2.9	25
21	The Roles of Stroma-Derived Chemokine in Different Stages of Cancer Metastases. <i>Frontiers in Immunology</i> , 2020, 11, 598532.	4.8	25
22	Electromagnetic fields alter the motility of metastatic breast cancer cells. <i>Communications Biology</i> , 2019, 2, 303.	4.4	24
23	cPLA2 blockade attenuates S100A7-mediated breast tumorigenicity by inhibiting the immunosuppressive tumor microenvironment. <i>Journal of Experimental and Clinical Cancer Research</i> , 2022, 41, 54.	8.6	23
24	Vessel-on-a-chip models for studying microvascular physiology, transport, and function in vitro. <i>American Journal of Physiology - Cell Physiology</i> , 2020, 320, C92-C105.	4.6	22
25	Distinguishing Specific CXCL12 Isoforms on Their Angiogenesis and Vascular Permeability Promoting Properties. <i>Advanced Healthcare Materials</i> , 2020, 9, e1901399.	7.6	18
26	In utero estrogenic endocrine disruption alters the stroma to increase extracellular matrix density and mammary gland stiffness. <i>Breast Cancer Research</i> , 2020, 22, 41.	5.0	16
27	Application of microscale culture technologies for studying lymphatic vessel biology. <i>Microcirculation</i> , 2019, 26, e12547.	1.8	15
28	Integrated Biophysical Characterization of Fibrillar Collagen-Based Hydrogels. <i>ACS Biomaterials Science and Engineering</i> , 2020, 6, 1408-1417.	5.2	15
29	MAX Mutations in Endometrial Cancer: Clinicopathologic Associations and Recurrent MAX p.His28Arg Functional Characterization. <i>Journal of the National Cancer Institute</i> , 2018, 110, 517-526.	6.3	9
30	Direct current electric field regulates endothelial permeability under physiologically relevant fluid forces in a microfluidic vessel bifurcation model. <i>Lab on A Chip</i> , 2021, 21, 319-330.	6.0	9
31	The Biophysics of Cancer: Emerging Insights from Micro- and Nanoscale Tools. <i>Advanced NanoBiomed Research</i> , 2022, 2, 2100056.	3.6	9
32	Tumor treating fields: An emerging treatment modality for thoracic and abdominal cavity cancers. <i>Translational Oncology</i> , 2022, 15, 101296.	3.7	7
33	Microfluidic Model of Angiogenic Sprouting. <i>Methods in Molecular Biology</i> , 2015, 1214, 243-254.	0.9	4
34	Melanoma-associated mutants within the serine-rich domain of PAK5 direct kinase activity to mitogenic pathways. <i>Oncotarget</i> , 2018, 9, 25386-25401.	1.8	3
35	Endothelial barrier function is co-regulated at vessel bifurcations by fluid forces and sphingosine-1-phosphate. <i>Biomaterials and Biosystems</i> , 2021, 3, 100020.	2.2	2
36	Abstract LB-347: Ang-2/VEGF bispecific antibody reprograms macrophages and resident microglia to anti-tumor phenotype and prolongs glioblastoma survival. , 2016, , .		2

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37	Microfluidic Prototyping by Xurography to Engineer Fullyâ€umenized Microvessels In Vitro. FASEB Journal, 2020, 34, 1-1.	0.5	2
38	Cellâ€Membrane Engineering: Engineering Cell Surface Function with DNA Origami (Adv. Mater. 46/2017). Advanced Materials, 2017, 29, .	21.0	1
39	Directional Migration of Breast Cancer Cells Hindered by Induced Electric Fields May Be Due to Accompanying Alteration of Metabolic Activity. Bioelectricity, 2021, 3, 92-100.	1.1	1
40	Microfluidic Platform for Reproducing Blood Vessel Microenvironment. FASEB Journal, 2010, 24, 1031.4.	0.5	1
41	A 3â€ Biomicrofluidic Lymphatic Vessel Analogue for Studying Lymphangiogenesis and Lymphatic Vessel Function. FASEB Journal, 2018, 32, 576.7.	0.5	1
42	Functionalizing Cell Membranes with DNA Origami for Multiplexed Biomolecular Sensing. FASEB Journal, 2019, 33, 785.1.	0.5	1
43	Molecular sensors for detection of tumor-stroma crosstalk. Advances in Cancer Research, 2022, 154, 47-91.	5.0	1
44	IMST-40. REPROGRAMMING OF THE TUMOR IMMUNE MICROENVIRONMENT BY AN ANG-2/VEGF BISPECIFIC ANTIBODY DELAYS TUMOR GROWTH AND PROLONGS SURVIVAL IN PRECLINICAL GBM MODELS. Neuro-Oncology, 2016, 18, vi95-vi95.	1.2	0
45	Direct Measurement of Fluid Shear Stress in 3-D Matrices using DNA-Based Force Spectroscopy. Biophysical Journal, 2020, 118, 219a.	0.5	0
46	Multiplexed DNA Origami Force Sensors with Programmable Sensitivities. Biophysical Journal, 2020, 118, 617a-618a.	0.5	0
47	Novel approaches to therapeutics in pancreatic adenocarcinoma: vitamin C and tumor treatment fields. , 0, , .		0
48	Micro- and Nanofluidics for Cell Biology, Cell Therapy, and Cell-Based Drug Testing. , 2009, , .		0
49	Biomechanical Determinants of Endothelial Cell Sprouting in a Microfluidic Device. FASEB Journal, 2011, 25, 1091.9.	0.5	0
50	Biomechanical Determinants of Endothelial Sprouting and Morphogenesis. FASEB Journal, 2012, 26, 683.10.	0.5	0
51	Flowâ€mediated Vessel Guidance. FASEB Journal, 2013, 27, 688.3.	0.5	0
52	Abstract 5796: Heparan sulfate proteoglycans mediate tumor cell invasion and metastasis. , 2017, , .		0
53	The Effect of Sphingosine 1â€Phosphate on Endothelial Permeability Is Fluid Flow Dependent. FASEB Journal, 2018, 32, .	0.5	0
54	NONâ€CONTACT ELECTRIC FIELDS POTENTLY HINDER EGF PROMOTED BREAST CANCER MOTILITY BY DOWNREGULATING EGFR PHOSPHORYLATION. FASEB Journal, 2018, 32, .	0.5	0

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55	DNA origami cell sensors for real time probing of membrane interactions with biomolecules in extracellular matrix. Biophysical Journal, 2022, 121, 152a.	0.5	0
56	Engineering the extracellular matrix with DNA-based molecular force sensors. Biophysical Journal, 2022, 121, 423a.	0.5	0