

Shreyas S Rao

List of Publications by Year in descending order

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34
papers

1,341
citations

304743

22
h-index

414414

32
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all docs

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docs citations

34
times ranked

2054
citing authors

#	ARTICLE	IF	CITATIONS
1	The impact of temozolomide and lonafarnib on the stemness marker expression of glioblastoma cells in multicellular spheroids. <i>Biotechnology Progress</i> , 2022, 38, .	2.6	2
2	Hyaluronic acid-based hydrogels to study cancer cell behaviors. <i>Journal of Materials Chemistry B</i> , 2021, 9, 6103-6115.	5.8	27
3	The Impact of Astrocytes and Endothelial Cells on Glioblastoma Stemness Marker Expression in Multicellular Spheroids. <i>Cellular and Molecular Bioengineering</i> , 2021, 14, 639-651.	2.1	5
4	High Frequency Spectral Ultrasound Imaging to Detect Metastasis in Implanted Biomaterial Scaffolds. <i>Annals of Biomedical Engineering</i> , 2020, 48, 477-489.	2.5	8
5	Three-dimensional biomimetic hyaluronic acid hydrogels to investigate glioblastoma stem cell behaviors. <i>Biotechnology and Bioengineering</i> , 2020, 117, 511-522.	3.3	26
6	Microporous scaffolds loaded with immunomodulatory lentivirus to study the contribution of immune cell populations to tumor cell recruitment in vivo. <i>Biotechnology and Bioengineering</i> , 2020, 117, 210-222.	3.3	10
7	Matrix stiffness and cluster size collectively regulate dormancy versus proliferation in brain metastatic breast cancer cell clusters. <i>Biomaterials Science</i> , 2020, 8, 6637-6646.	5.4	21
8	Fabrication of micro-porous hyaluronic acid hydrogels through salt leaching. <i>European Polymer Journal</i> , 2020, 135, 109870.	5.4	26
9	An in vitro hyaluronic acid hydrogel based platform to model dormancy in brain metastatic breast cancer cells. <i>Acta Biomaterialia</i> , 2020, 107, 65-77.	8.3	33
10	Three-dimensional culture models to study drug resistance in breast cancer. <i>Biotechnology and Bioengineering</i> , 2020, 117, 2262-2278.	3.3	32
11	Targeting Hyaluronan Interactions for Glioblastoma Stem Cell Therapy. <i>Cancer Microenvironment</i> , 2019, 12, 47-56.	3.1	23
12	Role of Surface Chemistry in Mediating the Uptake of Ultrasmall Iron Oxide Nanoparticles by Cancer Cells. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 17157-17166.	8.0	20
13	Bioengineered models to study tumor dormancy. <i>Journal of Biological Engineering</i> , 2019, 13, 3.	4.7	27
14	Biomaterial Scaffolds as Pre-metastatic Niche Mimics Systemically Alter the Primary Tumor and Tumor Microenvironment. <i>Advanced Healthcare Materials</i> , 2018, 7, e1700903.	7.6	25
15	The influence of matrix stiffness on the behavior of brain metastatic breast cancer cells in a biomimetic hyaluronic acid hydrogel platform. <i>Journal of Biomedical Materials Research - Part A</i> , 2018, 106, 1832-1841.	4.0	36
16	A combined compression molding, heating, and leaching process for fabrication of micro-porous poly(μ -caprolactone) scaffolds. <i>Journal of Biomaterials Science, Polymer Edition</i> , 2018, 29, 1978-1993.	3.5	8
17	Biomimetic models to examine microenvironmental regulation of glioblastoma stem cells. <i>Cancer Letters</i> , 2018, 429, 41-53.	7.2	21
18	Pre-Metastatic Niche: Biomaterial Scaffolds as Pre-metastatic Niche Mimics Systemically Alter the Primary Tumor and Tumor Microenvironment (<i>Adv. Healthcare Mater.</i> 10/2018). <i>Advanced Healthcare Materials</i> , 2018, 7, 1870040.	7.6	0

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19	Biomimetic strategies to recapitulate organ specific microenvironments for studying breast cancer metastasis. <i>International Journal of Cancer</i> , 2017, 141, 1091-1109.	5.1	29
20	Engineering the pre-metastatic niche. <i>Nature Biomedical Engineering</i> , 2017, 1, .	22.5	100
21	Electrospun Biomaterials for Cancer Research. , 2017, , 169-205.		1
22	Synergistic effect of eribulin and CDK inhibition for the treatment of triple negative breast cancer. <i>Oncotarget</i> , 2017, 8, 83925-83939.	1.8	34
23	Enhanced Survival with Implantable Scaffolds That Capture Metastatic Breast Cancer Cells <i>In Vivo</i> . <i>Cancer Research</i> , 2016, 76, 5209-5218.	0.9	86
24	Extracellular matrix mediators of metastatic cell colonization characterized using scaffold mimics of the pre-metastatic niche. <i>Acta Biomaterialia</i> , 2016, 33, 13-24.	8.3	65
25	Secretome identification of immune cell factors mediating metastatic cell homing. <i>Scientific Reports</i> , 2015, 5, 17566.	3.3	22
26	Glioma-astrocyte interactions on white matter tract-mimetic aligned electrospun nanofibers. <i>Biotechnology Progress</i> , 2015, 31, 1406-1415.	2.6	24
27	In vivo capture and label-free detection of early metastatic cells. <i>Nature Communications</i> , 2015, 6, 8094.	12.8	133
28	Toward 3D Biomimetic Models to Understand the Behavior of Glioblastoma Multiforme Cells. <i>Tissue Engineering - Part B: Reviews</i> , 2014, 20, 314-327.	4.8	49
29	Glioblastoma Behaviors in Three-Dimensional Collagen-Hyaluronan Composite Hydrogels. <i>ACS Applied Materials & Interfaces</i> , 2013, 5, 9276-9284.	8.0	129
30	Mimicking white matter tract topography using core-shell electrospun nanofibers to examine migration of malignant brain tumors. <i>Biomaterials</i> , 2013, 34, 5181-5190.	11.4	102
31	Inherent Interfacial Mechanical Gradients in 3D Hydrogels Influence Tumor Cell Behaviors. <i>PLoS ONE</i> , 2012, 7, e35852.	2.5	56
32	Polylysine-Modified PEG-Based Hydrogels to Enhance the Neuro-Electrode Interface. <i>Journal of Biomaterials Science, Polymer Edition</i> , 2011, 22, 611-625.	3.5	44
33	Hydrogel-Electrospun Fiber Mat Composite Coatings for Neural Prostheses. <i>Frontiers in Neuroengineering</i> , 2011, 4, 2.	4.8	29
34	Adhesion molecule-modified biomaterials for neural tissue engineering. <i>Frontiers in Neuroengineering</i> , 2009, 2, 6.	4.8	88