Shay Soker

List of Publications by Year in descending order

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42 papers	1,793 citations	331538 21 h-index	377752 34 g-index
44 all docs	44 docs citations	44 times ranked	2732 citing authors

#	Article	IF	Citations
1	A reductionist metastasisâ€onâ€achip platform for in vitro tumor progression modeling and drug screening. Biotechnology and Bioengineering, 2016, 113, 2020-2032.	1.7	183
2	Optimization of collagen type I-hyaluronan hybrid bioink for 3D bioprinted liver microenvironments. Biofabrication, 2019, 11, 015003.	3.7	171
3	Porcine pancreas extracellular matrix as a platform for endocrine pancreas bioengineering. Biomaterials, 2013, 34, 5488-5495.	5.7	145
4	Drug compound screening in single and integrated multi-organoid body-on-a-chip systems. Biofabrication, 2020, 12, 025017.	3.7	141
5	Liver-Tumor Hybrid Organoids for Modeling Tumor Growth and Drug Response In Vitro. Annals of Biomedical Engineering, 2015, 43, 2361-2373.	1.3	118
6	Substrate elasticity controls cell proliferation, surface marker expression and motile phenotype in amniotic fluid-derived stem cells. Journal of the Mechanical Behavior of Biomedical Materials, 2013, 17, 307-316.	1.5	111
7	Selfâ€assembled liver organoids recapitulate hepatobiliary organogenesis in vitro. Hepatology, 2018, 67, 750-761.	3.6	95
8	A tunable hydrogel system for longâ€term release of cellâ€secreted cytokines and bioprinted in situ wound cell delivery. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2017, 105, 1986-2000.	1.6	92
9	Environmental Toxin Screening Using Human-Derived 3D Bioengineered Liver and Cardiac Organoids. Frontiers in Public Health, 2018, 6, 103.	1.3	77
10	In situ patterned micro 3D liver constructs for parallel toxicology testing in a fluidic device. Biofabrication, 2015, 7, 031001.	3.7	75
11	Mesenchymal stem cells support growth and organization of host-liver colorectal-tumor organoids and possibly resistance to chemotherapy. Biofabrication, 2017, 9, 021002.	3.7	63
12	Differentiation of Human Dental Pulp Stem Cells into Dopaminergic Neuron-like Cells in Vitro. Journal of Korean Medical Science, 2016, 31, 171.	1.1	60
13	Decellularized Skin Extracellular Matrix (dsECM) Improves the Physical and Biological Properties of Fibrinogen Hydrogel for Skin Bioprinting Applications. Nanomaterials, 2020, 10, 1484.	1.9	41
14	Bioengineered Submucosal Organoids forIn VitroModeling of Colorectal Cancer. Tissue Engineering - Part A, 2017, 23, 1026-1041.	1.6	38
15	Personalized Identification of Optimal HIPEC Perfusion Protocol in Patient-Derived Tumor Organoid Platform. Annals of Surgical Oncology, 2020, 27, 4950-4960.	0.7	36
16	Simulating the human colorectal cancer microenvironment in 3D tumor-stroma co-cultures in vitro and in vivo. Scientific Reports, 2020, 10, 9832.	1.6	34
17	Bio-instructive hydrogel expands the paracrine potency of mesenchymal stem cells. Biofabrication, 2021, 13, 045002.	3.7	32
18	Optical Tracking and Digital Quantification of Beating Behavior in Bioengineered Human Cardiac Organoids. Biosensors, 2017, 7, 24.	2.3	31

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19	Development of a Colorectal Cancer 3D Micro-tumor Construct Platform From Cell Lines and Patient Tumor Biospecimens for Standard-of-Care and Experimental Drug Screening. Annals of Biomedical Engineering, 2020, 48, 940-952.	1.3	29
20	Fluid Flow Regulation of Revascularization and Cellular Organization in a Bioengineered Liver Platform. Tissue Engineering - Part C: Methods, 2016, 22, 199-207.	1.1	26
21	The Use of Pulsed Electromagnetic Field to Modulate Inflammation and Improve Tissue Regeneration: A Review. Bioelectricity, 2019, 1, 247-259.	0.6	24
22	Manipulating the Tumor Microenvironment in Tumor Organoids Induces Phenotypic Changes and Chemoresistance. IScience, 2020, 23, 101851.	1.9	24
23	Cell Viability Assays in Three-Dimensional Hydrogels: A Comparative Study of Accuracy. Tissue Engineering - Part C: Methods, 2021, 27, 401-410.	1.1	23
24	Bioreactor design and validation for manufacturing strategies in tissue engineering. Bio-Design and Manufacturing, 2022, 5, 43-63.	3.9	21
25	Shear stress upregulates regeneration-related immediate early genes in liver progenitors in 3D ECM-like microenvironments. Journal of Cellular Physiology, 2018, 233, 4272-4281.	2.0	19
26	Semiconducting polymer nanoparticles for photothermal ablation of colorectal cancer organoids. Scientific Reports, 2021, 11, 1532.	1.6	15
27	Genetic Modification of Primate Amniotic Fluid-Derived Stem Cells Produces Pancreatic Progenitor Cells in vitro. Cells Tissues Organs, 2013, 197, 269-282.	1.3	14
28	Evaluation of parenchymal fluid pressure in native and decellularized liver tissue. Biomedical Sciences Instrumentation, 2012, 48, 303-9.	0.2	14
29	Bioengineered tumor organoids. Current Opinion in Biomedical Engineering, 2020, 13, 168-173.	1.8	12
30	Differential fibrotic phenotypes of hepatic stellate cells within 3D liver organoids. Biotechnology and Bioengineering, 2020, 117, 2516-2526.	1.7	10
31	Biofabricated <scp>3D</scp> in vitro model of fibrosisâ€induced abnormal hepatoblast/biliary progenitors' expansion of the developing liver. Bioengineering and Translational Medicine, 2021, 6, e10207.	3.9	4
32	Exploiting maleimide-functionalized hyaluronan hydrogels to test cellular responses to physical and biochemical stimuli. Biomedical Materials (Bristol), 2022, 17, 025001.	1.7	4
33	In VitroProliferation of Porcine Pancreatic Islet Cells forÎ²-Cell Therapy Applications. Journal of Diabetes Research, 2016, 2016, 1-8.	1.0	2
34	206â€…An immune-competent tumor organoid platform to test novel immune checkpoint combinations targeting the receptor CD47 in triple negative breast cancer. , 2020, 8, A222-A222.		2
35	Total Organ Replacement Using Tissue Engineering. FASEB Journal, 2007, 21, A140.	0.2	1
36	Non-destructive real-time imaging of cell morphology for tissue-engineering applications. , 2011, , .		0

#	Article	IF	Citations
37	Expression of Primary Cilia on Liver Stem and Progenitor Cells: Potential Role for Mechanosensing in Liver Development. , 2013, , .		0
38	Immunoâ€Reactive Cancer Organoid Models to Examine Microbiome Metabolite Effects on Immune Checkpoint Blockade Efficacy. FASEB Journal, 2021, 35, .	0.2	0
39	Abstract 2964: Immuno-reactive cancer organoid models to examine microbiome metabolite effects on immune checkpoint blockade efficacy. , 2021, , .		0
40	Smooth Muscle Cell Seeding on Decellularized Porcine Saphenous Vein Scaffolds â€“A Step Towards Functional Tissue Engineered Blood Vessels. FASEB Journal, 2009, 23, 817.2.	0.2	0
41	Non-Destructive Real-Time Imaging of Cell Seeded Tissue Engineered Scaffolds. , 2011, , .		0
42	Biofabricated tumor microenvironments for studying colorectal cancer in vitro and in vivo.. Journal of Clinical Oncology, 2019, 37, e14689-e14689.	0.8	0