Jessica D Weaver

List of Publications by Year
in descending order

23 papers	875 citations	623734 14 h-index	888059 17 g-index
25 all docs	25 docs citations	25 times ranked	1451 citing authors

#	Article	IF	Citations
1	Vasculogenic hydrogel enhances islet survival, engraftment, and function in leading extrahepatic sites. Science Advances, 2017, 3, e1700184.	10.3	130
2	Local release of dexamethasone from macroporous scaffolds accelerates islet transplant engraftment by promotion of anti-inflammatory M2 macrophages. Biomaterials, 2017, 114, 71-81.	11.4	125
3	Local immunomodulation with Fas ligand-engineered biomaterials achieves allogeneic islet graft acceptance. Nature Materials, 2018, 17, 732-739.	27.5	124
4	Design of a vascularized synthetic poly(ethylene glycol) macroencapsulation device for islet transplantation. Biomaterials, 2018, 172, 54-65.	11.4	94
5	Antioxidant cerium oxide nanoparticle hydrogels for cellular encapsulation. Acta Biomaterialia, 2015, 16, 136-144.	8.3	62
6	Engineered microenvironments for synergistic VEGF â€“ Integrin signalling during vascularization. Biomaterials, 2017, 126, 61-74.	11.4	61
7	Immunotherapy via PD-L1â€“presenting biomaterials leads to long-term islet graft survival. Science Advances, 2020, 6, eaba5573.	10.3	54
8	Synthetic poly(ethylene glycol)-based microfluidic islet encapsulation reduces graft volume for delivery to highly vascularized and retrievable transplant site. American Journal of Transplantation, 2019, 19, 1315-1327.	4.7	48
9	Enhancing Clinical Islet Transplantation through Tissue Engineeering Strategies. Journal of Diabetes Science and Technology, 2010, 4, 1238-1247.	2.2	47
10	Controlled Release of Dexamethasone from Organosilicone Constructs for Local Modulation of Inflammation in Islet Transplantation. Tissue Engineering - Part A, 2015, 21, 2250-2261.	3.1	31
11	Experimental evaluation and computational modeling of the effects of encapsulation on the time-profile of glucose-stimulated insulin release of pancreatic islets. BioMedical Engineering OnLine, 2015, 14, 28.	2.7	25
12	Inhibition of TBK1/IKKÎµ Promotes Regeneration of Pancreatic Î²-cells. Scientific Reports, 2018, 8, 15587.	3.3	24
13	Linkage Groups within Thiolâ€“Ene Photoclickable PEG Hydrogels Control In Vivo Stability. Advanced Healthcare Materials, 2019, 8, e1900371.	7.6	21
14	PEG hydrogel containing calcium-releasing particles and mesenchymal stromal cells promote vessel maturation. Acta Biomaterialia, 2018, 67, 53-65.	8.3	19
15	Biomaterial-based approaches to engineering immune tolerance. Biomaterials Science, 2020, 8, 7014-7032.	5.4	7
16	A Method for Organoid Transplantation and Whole-Mount Visualization of Post-Engraftment Vascularization. Methods in Molecular Biology, 2021, 2258, 259-272.	0.9	2
17	Good vibrations to treat inflammatory arthritis. Science Translational Medicine, 2019, 11, .	12.4	1
18	Engineering Artificial Niches for Regenerative Medicine. , 2019, , 103-103.		0

#	Article	IF	Citations
19	A breath of fresh air for donor lungs. Science Translational Medicine, 2019, 11, .	12.4	0
20	Bedazzled biomaterials: Crystallized drugs prevent implant fibrosis. Science Translational Medicine, 2019, 11, .	12.4	0
21	Interception! A decoy scaffold disrupts autoimmunity. Science Translational Medicine, 2019, 11, .	12.4	0
22	A new hope? Yoda1 uses the â€œforceâ€•to sensitize cancer cells to TRAIL-mediated apoptosis. Science Translational Medicine, 2019, 11, .	12.4	0
23	Organoid optimization: Engineering a better cell therapy to treat type 1 diabetes. Science Translational Medicine, 2020, 12, .	12.4	0