Alan Chiu

List of Publications by Year
in descending order

24 papers	2,867 citations	331259 21 h-index	580395 25 g-index
25 all docs	25 docs citations	25 times ranked	3896 citing authors

#	Article	IF	Citations
1	Size- and shape-dependent foreign body immune response to materials implanted in rodents and non-human primates. Nature Materials, 2015, 14, 643-651.	13.3	700
2	Combinatorial hydrogel library enables identification of materials that mitigate the foreign body response in primates. Nature Biotechnology, 2016, 34, 345-352.	9.4	417
3	Focused Ultrasound-mediated Non-invasive Brain Stimulation: Examination of Sonication Parameters. Brain Stimulation, 2014, 7, 748-756.	0.7	239
4	Colony stimulating factor-1 receptor is a central component of the foreign body response to biomaterial implants in rodents and non-humanÂprimates. Nature Materials, 2017, 16, 671-680.	13.3	214
5	Coreâ€"Shell Hydrogel Microcapsules for Improved Islets Encapsulation. Advanced Healthcare Materials, 2013, 2, 667-672.	3.9	141
6	Designing a retrievable and scalable cell encapsulation device for potential treatment of type 1 diabetes. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, E263-E272.	3.3	137
7	An Adhesive Hydrogel with â€œLoadâ€Sharingâ€• Effect as Tissue Bandages for Drug and Cell Delivery. Advanced Materials, 2020, 32, e2001628.	11.1	128
8	Zwitterionically modified alginates mitigate cellular overgrowth for cell encapsulation. Nature Communications, 2019, 10, 5262.	5.8	119
9	Suppression of EEG visual-evoked potentials in rats through neuromodulatory focused ultrasound. NeuroReport, 2015, 26, 211-215.	0.6	114
10	Neutrophil Responses to Sterile Implant Materials. PLoS ONE, 2015, 10, e0137550.	1.1	92
11	Developing robust, hydrogel-based, nanofiber-enabled encapsulation devices (NEEDs) for cell therapies. Biomaterials, 2015, 37, 40-48.	5.7	81
12	Estimation of the spatial profile of neuromodulation and the temporal latency in motor responses induced by focused ultrasound brain stimulation. NeuroReport, 2014, 25, 475-479.	0.6	63
13	Engineering transferrable microvascular meshes for subcutaneous islet transplantation. Nature Communications, 2019, 10, 4602.	5.8	63
14	Developing mechanically robust, triazole-zwitterionic hydrogels to mitigate foreign body response (FBR) for islet encapsulation. Biomaterials, 2020, 230, 119640.	5.7	58
15	High-water-content and resilient PEG-containing hydrogels with low fibrotic response. Acta Biomaterialia, 2017, 53, 100-108.	4.1	47
16	Conformal Hydrogel Coatings on Catheters To Reduce Biofouling. Langmuir, 2019, 35, 1927-1934.	1.6	45
17	Imageâ€guided navigation of singleâ€element focused ultrasound transducer. International Journal of Imaging Systems and Technology, 2012, 22, 177-184.	2.7	38
18	Scalable Production and Cryostorage of Organoids Using Coreâ€"Shell Decoupled Hydrogel Capsules. Advanced Biology, 2017, 1, 1700165.	3.0	38

#	Article	IF	Citations
19	PET/CT imaging evidence of FUSâ€mediated (18)Fâ€FDG uptake changes in rat brain. Medical Physics, 2013, 40, 033501.	1.6	32
20	A Zwitterionic Polyurethane Nanoporous Device with Low Foreignâ€Body Response for Islet Encapsulation. Advanced Materials, 2021, 33, e2102852.	11.1	29
21	An Atmosphereâ€Breathing Refillable Biphasic Device for Cell Replacement Therapy. Advanced Materials, 2019, 31, e1905135.	11.1	25
22	A Safe, Fibrosisâ€Mitigating, and Scalable Encapsulation Device Supports Longâ€Term Function of Insulinâ€Producing Cells. Small, 2022, 18, e2104899.	5.2	17
23	Physical confinement induces malignant transformation in mammary epithelial cells. Biomaterials, 2019, 217, 119307.	5.7	13
24	Cell Delivery: Coreâ€"Shell Hydrogel Microcapsules for Improved Islets Encapsulation (Adv. Healthcare) Tj ETQq0 0 0 rgBT /Overlock 10 T	3.9	4