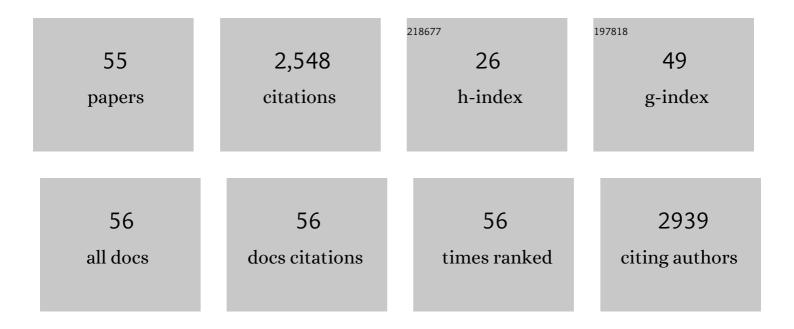
## Cheri X Deng

List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/5002792/publications.pdf Version: 2024-02-01



CHEDI X DENC

#	Article	IF	CITATIONS
1	Ultrasound-induced cell membrane porosity. Ultrasound in Medicine and Biology, 2004, 30, 519-526.	1.5	306
2	Ultrasound modulates ion channel currents. Scientific Reports, 2016, 6, 24170.	3.3	241
3	Spatiotemporally controlled single cell sonoporation. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 16486-16491.	7.1	197
4	Radiation-force technique to monitor lesions during ultrasonic therapy. Ultrasound in Medicine and Biology, 2003, 29, 1593-1605.	1.5	167
5	Mechanisms of microbubble-facilitated sonoporation for drug and gene delivery. Therapeutic Delivery, 2014, 5, 467-486.	2.2	133
6	Rapid Generation of Multiplexed Cell Cocultures Using Acoustic Droplet Ejection Followed by Aqueous Two-Phase Exclusion Patterning. Tissue Engineering - Part C: Methods, 2012, 18, 647-657.	2.1	119
7	The Size of Sonoporation Pores on the Cell Membrane. Ultrasound in Medicine and Biology, 2009, 35, 1756-1760.	1.5	107
8	Effects of extracellular calcium on cell membrane resealing in sonoporation. Journal of Controlled Release, 2008, 126, 34-43.	9.9	96
9	In vitro measurements of inertial cavitation thresholds in human blood. Ultrasound in Medicine and Biology, 1996, 22, 939-948.	1.5	92
10	Acoustic tweezing cytometry for live-cell subcellular modulation of intracellular cytoskeleton contractility. Scientific Reports, 2013, 3, 2176.	3.3	75
11	Effects of shear stress cultivation on cell membrane disruption and intracellular calcium concentration in sonoporation of endothelial cells. Journal of Biomechanics, 2011, 44, 164-169.	2.1	70
12	Modulation of Intracellular Ca2+ Concentration in Brain Microvascular Endothelial Cells in vitro by Acoustic Cavitation. Ultrasound in Medicine and Biology, 2010, 36, 1176-1187.	1.5	62
13	Dynamics of Sonoporation Correlated with Acoustic Cavitation Activities. Biophysical Journal, 2008, 94, L51-L53.	0.5	61
14	Targeted drug delivery across the blood–brain barrier using ultrasound technique. Therapeutic Delivery, 2010, 1, 819-848.	2.2	61
15	A review of physical phenomena associated with ultrasonic contrast agents and illustrative clinical applications. Ultrasound in Medicine and Biology, 2002, 28, 277-286.	1.5	60
16	Activation of a Bacterial Mechanosensitive Channel in Mammalian Cells by Cytoskeletal Stress. Cellular and Molecular Bioengineering, 2014, 7, 307-319.	2.1	57
17	Acoustic tweezing cytometry enhances osteogenesis of human mesenchymal stem cells through cytoskeletal contractility and YAP activation. Biomaterials, 2017, 134, 22-30.	11.4	57
18	Characterization of the Dynamic Activities of a Population of Microbubbles Driven by Pulsed Ultrasound Exposure in Sonoporation. Ultrasound in Medicine and Biology, 2014, 40, 1260-1272.	1.5	48

CHERI X DENG

#	Article	IF	CITATIONS
19	Noninvasive, Quantitative, Spatiotemporal Characterization of Mineralization in Three-Dimensional Collagen Hydrogels Using High-Resolution Spectral Ultrasound Imaging. Tissue Engineering - Part C: Methods, 2012, 18, 935-946.	2.1	46
20	Effects of hydroxyapatite on endothelial network formation in collagen/fibrin composite hydrogels in vitro and in vivo. Acta Biomaterialia, 2014, 10, 3091-3097.	8.3	38
21	High resolution Physio-chemical Tissue Analysis: Towards Non-invasive In Vivo Biopsy. Scientific Reports, 2016, 6, 16937.	3.3	37
22	Microscale characterization of the viscoelastic properties of hydrogel biomaterials using dual-mode ultrasound elastography. Biomaterials, 2016, 88, 12-24.	11.4	37
23	Noninvasive Quantification of In Vitro Osteoblastic Differentiation in 3D Engineered Tissue Constructs Using Spectral Ultrasound Imaging. PLoS ONE, 2014, 9, e85749.	2.5	37
24	Ultrasound Imaging Techniques for Spatiotemporal Characterization of Composition, Microstructure, and Mechanical Properties in Tissue Engineering. Tissue Engineering - Part B: Reviews, 2016, 22, 311-321.	4.8	35
25	Inertial cavitation produced by pulsed ultrasound in controlled host media. Journal of the Acoustical Society of America, 1996, 100, 1199-1208.	1.1	30
26	Multimode ultrasound viscoelastography for three-dimensional interrogation of microscale mechanical properties in heterogeneous biomaterials. Biomaterials, 2018, 178, 11-22.	11.4	29
27	Two-Bubble Acoustic Tweezing Cytometry for Biomechanical Probing and Stimulation of Cells. Biophysical Journal, 2015, 108, 32-42.	0.5	27
28	In vivo characterization of pancreatic and lymph node tissue by using EUS spectrum analysis: a validation study. Gastrointestinal Endoscopy, 2010, 71, 53-63.	1.0	25
29	Acoustic Tweezing Cytometry Induces Rapid Initiation of Human Embryonic Stem Cell Differentiation. Scientific Reports, 2018, 8, 12977.	3.3	20
30	Calibration and Evaluation of Ultrasound Thermography UsingÂInfrared Imaging. Ultrasound in Medicine and Biology, 2016, 42, 503-517.	1.5	17
31	Acoustic Actuation of Integrinâ€Bound Microbubbles for Mechanical Phenotyping during Differentiation and Morphogenesis of Human Embryonic Stem Cells. Small, 2018, 14, e1803137.	10.0	15
32	Aqueous Twoâ€Phase System Patterning of Microbubbles: Localized Induction of Apoptosis in Sonoporated Cells. Advanced Functional Materials, 2013, 23, 3420-3431.	14.9	13
33	Dynamics of microbubble generation and trapping by self-focused femtosecond laser pulses. Applied Physics Letters, 2009, 95, 051107.	3.3	12
34	Resonant acoustic rheometry for non-contact characterization of viscoelastic biomaterials. Biomaterials, 2021, 269, 120676.	11.4	12
35	Fluorescence Imaging for Real-Time Monitoring of High-Intensity Focused Ultrasound Cardiac Ablation. Annals of Biomedical Engineering, 2005, 33, 1352-1359.	2.5	10
36	Injectable pre-cultured tissue modules catalyze the formation of extensive functional microvasculature in vivo. Scientific Reports, 2020, 10, 15562.	3.3	10

CHERI X DENG

#	Article	IF	CITATIONS
37	Improving Survival of Disassociated Human Embryonic Stem Cells by Mechanical Stimulation Using Acoustic Tweezing Cytometry. Biophysical Journal, 2015, 108, 1315-1317.	0.5	9
38	High-frequency spectral ultrasound imaging (SUSI) visualizes early post-traumatic heterotopic ossification (HO) in a mouse model. Bone, 2018, 109, 49-55.	2.9	9
39	Tomographic Reconstruction of Tissue Properties and Temperature Increase for High-Intensity Focused Ultrasound Applications. Ultrasound in Medicine and Biology, 2013, 39, 1760-1770.	1.5	8
40	Characterization of lesion formation and bubble activities during high-intensity focused ultrasound ablation using temperature-derived parameters. Infrared Physics and Technology, 2013, 60, 108-117.	2.9	8
41	High Frequency Spectral Ultrasound Imaging to Detect Metastasis in Implanted Biomaterial Scaffolds. Annals of Biomedical Engineering, 2020, 48, 477-489.	2.5	8
42	A feasibility study of high intensity focused ultrasound for liver biopsy hemostasis. Ultrasound in Medicine and Biology, 2004, 30, 1531-1537.	1.5	7
43	Acoustic tweezing cytometry for mechanical phenotyping of macrophages and mechanopharmaceutical cytotripsy. Scientific Reports, 2019, 9, 5702.	3.3	7
44	Improved outcome of targeted delivery of chemotherapy drugs to the brain using a combined strategy of ultrasound, magnetic targeting and drug-loaded nanoparticles. Therapeutic Delivery, 2011, 2, 137-141.	2.2	6
45	High Frequency Spectral Ultrasound Imaging Detects Early Heterotopic Ossification in Rodents. Stem Cells and Development, 2021, 30, 473-484.	2.1	6
46	Electrophysiological Changes Correlated with Temperature Increases Induced by High-Intensity Focused Ultrasound Ablation. Ultrasound in Medicine and Biology, 2015, 41, 432-448.	1.5	4
47	Calcium Imaging of Sonoporation of Mammalian Cells. AIP Conference Proceedings, 2006, , .	0.4	3
48	Microbubbles: Aqueous Twoâ€Phase System Patterning of Microbubbles: Localized Induction of Apoptosis in Sonoporated Cells (Adv. Funct. Mater. 27/2013). Advanced Functional Materials, 2013, 23, 3366-3366.	14.9	3
49	Rapid translocation of pluripotency-related transcription factors by external uniaxial forces. Integrative Biology (United Kingdom), 2019, 11, 41-52.	1.3	3
50	Visualization and quantification of dynamic intercellular coupling in human embryonic stem cells using single cell sonoporation. Scientific Reports, 2020, 10, 18253.	3.3	3
51	Transmural Ultrasound Imaging of Thermal Lesion and Action Potential Changes in Perfused Canine Cardiac Wedge Preparations by High Intensity Focused Ultrasound Ablation. PLoS ONE, 2013, 8, e82689.	2.5	3
52	Integrinâ€Targeted Cyclic Forces Accelerate Neural Tubeâ€Like Rosette Formation from Human Embryonic Stem Cells. Advanced Biology, 2019, 3, 1900064.	3.0	2
53	Effects of Extracellular Calcium on Cell Membrane Resealing during Sonoporation. AIP Conference Proceedings, 2006, , .	0.4	0

54 The size of sonoporation pores on the cell membrane. , 2008, , .

0

#	Article	IF	CITATIONS
55	Ultrasound backscatter spectral analysis provides image feedback for histotripsy tissue fractionation. , 2011, , .		0