

# Cheri X Deng

## List of Publications by Year in descending order

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55  
papers

2,548  
citations

218677

26  
h-index

197818

49  
g-index

56  
all docs

56  
docs citations

56  
times ranked

2939  
citing authors

#	ARTICLE	IF	CITATIONS
1	Resonant acoustic rheometry for non-contact characterization of viscoelastic biomaterials. <i>Biomaterials</i> , 2021, 269, 120676.	11.4	12
2	High Frequency Spectral Ultrasound Imaging Detects Early Heterotopic Ossification in Rodents. <i>Stem Cells and Development</i> , 2021, 30, 473-484.	2.1	6
3	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
4	Visualization and quantification of dynamic intercellular coupling in human embryonic stem cells using single cell sonoporation. <i>Scientific Reports</i> , 2020, 10, 18253.	3.3	3
5	Injectable pre-cultured tissue modules catalyze the formation of extensive functional microvasculature in vivo. <i>Scientific Reports</i> , 2020, 10, 15562.	3.3	10
6	Integrin-Targeted Cyclic Forces Accelerate Neural Tube-Like Rosette Formation from Human Embryonic Stem Cells. <i>Advanced Biology</i> , 2019, 3, 1900064.	3.0	2
7	Rapid translocation of pluripotency-related transcription factors by external uniaxial forces. <i>Integrative Biology (United Kingdom)</i> , 2019, 11, 41-52.	1.3	3
8	Acoustic tweezing cytometry for mechanical phenotyping of macrophages and mechanopharmaceutical cytotoxicity. <i>Scientific Reports</i> , 2019, 9, 5702.	3.3	7
9	High-frequency spectral ultrasound imaging (SUSI) visualizes early post-traumatic heterotopic ossification (HO) in a mouse model. <i>Bone</i> , 2018, 109, 49-55.	2.9	9
10	Acoustic Actuation of Integrin-Bound Microbubbles for Mechanical Phenotyping during Differentiation and Morphogenesis of Human Embryonic Stem Cells. <i>Small</i> , 2018, 14, e1803137.	10.0	15
11	Acoustic Tweezing Cytometry Induces Rapid Initiation of Human Embryonic Stem Cell Differentiation. <i>Scientific Reports</i> , 2018, 8, 12977.	3.3	20
12	Multimode ultrasound viscoelastography for three-dimensional interrogation of microscale mechanical properties in heterogeneous biomaterials. <i>Biomaterials</i> , 2018, 178, 11-22.	11.4	29
13	Acoustic tweezing cytometry enhances osteogenesis of human mesenchymal stem cells through cytoskeletal contractility and YAP activation. <i>Biomaterials</i> , 2017, 134, 22-30.	11.4	57
14	Ultrasound modulates ion channel currents. <i>Scientific Reports</i> , 2016, 6, 24170.	3.3	241
15	High resolution Physio-chemical Tissue Analysis: Towards Non-invasive In Vivo Biopsy. <i>Scientific Reports</i> , 2016, 6, 16937.	3.3	37
16	Ultrasound Imaging Techniques for Spatiotemporal Characterization of Composition, Microstructure, and Mechanical Properties in Tissue Engineering. <i>Tissue Engineering - Part B: Reviews</i> , 2016, 22, 311-321.	4.8	35
17	Microscale characterization of the viscoelastic properties of hydrogel biomaterials using dual-mode ultrasound elastography. <i>Biomaterials</i> , 2016, 88, 12-24.	11.4	37
18	Calibration and Evaluation of Ultrasound Thermography Using Infrared Imaging. <i>Ultrasound in Medicine and Biology</i> , 2016, 42, 503-517.	1.5	17

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19	Electrophysiological Changes Correlated with Temperature Increases Induced by High-Intensity Focused Ultrasound Ablation. <i>Ultrasound in Medicine and Biology</i> , 2015, 41, 432-448.	1.5	4
20	Two-Bubble Acoustic Tweezing Cytometry for Biomechanical Probing and Stimulation of Cells. <i>Biophysical Journal</i> , 2015, 108, 32-42.	0.5	27
21	Improving Survival of Disassociated Human Embryonic Stem Cells by Mechanical Stimulation Using Acoustic Tweezing Cytometry. <i>Biophysical Journal</i> , 2015, 108, 1315-1317.	0.5	9
22	Activation of a Bacterial Mechanosensitive Channel in Mammalian Cells by Cytoskeletal Stress. <i>Cellular and Molecular Bioengineering</i> , 2014, 7, 307-319.	2.1	57
23	Effects of hydroxyapatite on endothelial network formation in collagen/fibrin composite hydrogels in vitro and in vivo. <i>Acta Biomaterialia</i> , 2014, 10, 3091-3097.	8.3	38
24	Characterization of the Dynamic Activities of a Population of Microbubbles Driven by Pulsed Ultrasound Exposure in Sonoporation. <i>Ultrasound in Medicine and Biology</i> , 2014, 40, 1260-1272.	1.5	48
25	Mechanisms of microbubble-facilitated sonoporation for drug and gene delivery. <i>Therapeutic Delivery</i> , 2014, 5, 467-486.	2.2	133
26	Noninvasive Quantification of In Vitro Osteoblastic Differentiation in 3D Engineered Tissue Constructs Using Spectral Ultrasound Imaging. <i>PLoS ONE</i> , 2014, 9, e85749.	2.5	37
27	Tomographic Reconstruction of Tissue Properties and Temperature Increase for High-Intensity Focused Ultrasound Applications. <i>Ultrasound in Medicine and Biology</i> , 2013, 39, 1760-1770.	1.5	8
28	Characterization of lesion formation and bubble activities during high-intensity focused ultrasound ablation using temperature-derived parameters. <i>Infrared Physics and Technology</i> , 2013, 60, 108-117.	2.9	8
29	Acoustic tweezing cytometry for live-cell subcellular modulation of intracellular cytoskeleton contractility. <i>Scientific Reports</i> , 2013, 3, 2176.	3.3	75
30	Aqueous Two-Phase System Patterning of Microbubbles: Localized Induction of Apoptosis in Sonoporated Cells. <i>Advanced Functional Materials</i> , 2013, 23, 3420-3431.	14.9	13
31	Microbubbles: Aqueous Two-Phase System Patterning of Microbubbles: Localized Induction of Apoptosis in Sonoporated Cells ( <i>Adv. Funct. Mater.</i> 27/2013). <i>Advanced Functional Materials</i> , 2013, 23, 3366-3366.	14.9	3
32	Transmural Ultrasound Imaging of Thermal Lesion and Action Potential Changes in Perfused Canine Cardiac Wedge Preparations by High Intensity Focused Ultrasound Ablation. <i>PLoS ONE</i> , 2013, 8, e82689.	2.5	3
33	Noninvasive, Quantitative, Spatiotemporal Characterization of Mineralization in Three-Dimensional Collagen Hydrogels Using High-Resolution Spectral Ultrasound Imaging. <i>Tissue Engineering - Part C: Methods</i> , 2012, 18, 935-946.	2.1	46
34	Spatiotemporally controlled single cell sonoporation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 16486-16491.	7.1	197
35	Rapid Generation of Multiplexed Cell Cocultures Using Acoustic Droplet Ejection Followed by Aqueous Two-Phase Exclusion Patterning. <i>Tissue Engineering - Part C: Methods</i> , 2012, 18, 647-657.	2.1	119
36	Ultrasound backscatter spectral analysis provides image feedback for histotripsy tissue fractionation. , 2011, , .		0

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37	Effects of shear stress cultivation on cell membrane disruption and intracellular calcium concentration in sonoporation of endothelial cells. <i>Journal of Biomechanics</i> , 2011, 44, 164-169.	2.1	70
38	Improved outcome of targeted delivery of chemotherapy drugs to the brain using a combined strategy of ultrasound, magnetic targeting and drug-loaded nanoparticles. <i>Therapeutic Delivery</i> , 2011, 2, 137-141.	2.2	6
39	Modulation of Intracellular Ca <sup>2+</sup> Concentration in Brain Microvascular Endothelial Cells in vitro by Acoustic Cavitation. <i>Ultrasound in Medicine and Biology</i> , 2010, 36, 1176-1187.	1.5	62
40	Targeted drug delivery across the blood-brain barrier using ultrasound technique. <i>Therapeutic Delivery</i> , 2010, 1, 819-848.	2.2	61
41	In vivo characterization of pancreatic and lymph node tissue by using EUS spectrum analysis: a validation study. <i>Gastrointestinal Endoscopy</i> , 2010, 71, 53-63.	1.0	25
42	Dynamics of microbubble generation and trapping by self-focused femtosecond laser pulses. <i>Applied Physics Letters</i> , 2009, 95, 051107.	3.3	12
43	The Size of Sonoporation Pores on the Cell Membrane. <i>Ultrasound in Medicine and Biology</i> , 2009, 35, 1756-1760.	1.5	107
44	Effects of extracellular calcium on cell membrane resealing in sonoporation. <i>Journal of Controlled Release</i> , 2008, 126, 34-43.	9.9	96
45	Dynamics of Sonoporation Correlated with Acoustic Cavitation Activities. <i>Biophysical Journal</i> , 2008, 94, L51-L53.	0.5	61
46	The size of sonoporation pores on the cell membrane. , 2008, , .		0
47	Calcium Imaging of Sonoporation of Mammalian Cells. <i>AIP Conference Proceedings</i> , 2006, , .	0.4	3
48	Effects of Extracellular Calcium on Cell Membrane Resealing during Sonoporation. <i>AIP Conference Proceedings</i> , 2006, , .	0.4	0
49	Fluorescence Imaging for Real-Time Monitoring of High-Intensity Focused Ultrasound Cardiac Ablation. <i>Annals of Biomedical Engineering</i> , 2005, 33, 1352-1359.	2.5	10
50	Ultrasound-induced cell membrane porosity. <i>Ultrasound in Medicine and Biology</i> , 2004, 30, 519-526.	1.5	306
51	A feasibility study of high intensity focused ultrasound for liver biopsy hemostasis. <i>Ultrasound in Medicine and Biology</i> , 2004, 30, 1531-1537.	1.5	7
52	Radiation-force technique to monitor lesions during ultrasonic therapy. <i>Ultrasound in Medicine and Biology</i> , 2003, 29, 1593-1605.	1.5	167
53	A review of physical phenomena associated with ultrasonic contrast agents and illustrative clinical applications. <i>Ultrasound in Medicine and Biology</i> , 2002, 28, 277-286.	1.5	60
54	Inertial cavitation produced by pulsed ultrasound in controlled host media. <i>Journal of the Acoustical Society of America</i> , 1996, 100, 1199-1208.	1.1	30

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55	In vitro measurements of inertial cavitation thresholds in human blood. <i>Ultrasound in Medicine and Biology</i> , 1996, 22, 939-948.	1.5	92