Eli Vlaisavljevich

List of PR Articles by Year
in descending order

60 PR articles	2,660 PR citations	165620 27 PR h-index	172576 48 g-index
65 documents	2844 doc citations	194581 27 h-index	1003 citing authors

#	Article	IF	PR Citations
1	Effects of pulse repetition frequency on bubble cloud characteristics and ablation in single-cycle histotripsy. Physics in Medicine and Biology, 2024, 69, 025018.	3.1	2
2	Ultrasound-Guided Mechanical High-Intensity Focused Ultrasound (Histotripsy) Through an Acoustically Permeable Polyolefin-Based Cranioplasty Device. IEEE Transactions on Biomedical Engineering, 2024, 71, 2877-2888.	3.3	4
3	Gradient descent optimization of acoustic holograms for transcranial focused ultrasound. Journal of Applied Physics, 2024, 136, .	2.1	10
4	Histotripsy Ablation of Spontaneously Occurring Canine Bone Tumors. IEEE Transactions on Biomedical Engineering, 2023, 70, 331-342.	3.3	21
5	Mechanical High-Intensity Focused Ultrasound (Histotripsy) in Dogs With Spontaneously Occurring Soft Tissue Sarcomas. IEEE Transactions on Biomedical Engineering, 2023, 70, 768-779.	3.3	24
6	DNA release from plant tissue using focused ultrasound extraction (FUSE). Applications in Plant Sciences, 2023, 11, .	1.9	4
7	Histotripsy ablation for the treatment of feline injection site sarcomas: a first-in-cat inÂvivo feasibility study. International Journal of Hyperthermia, 2023, 40, .	2.6	12
8	Ultrasound-guided noninvasive pancreas ablation using histotripsy: feasibility study in an inÂvivo porcine model. International Journal of Hyperthermia, 2023, 40, .	2.6	14
9	Probability of Cavitation in a Custom Iron-Based Coupling Medium for Transcranial Magnetic Resonance-Guided Focused Ultrasound Procedures. Ultrasound in Medicine and Biology, 2023, 49, 2519-2526.	2.1	0
10	Bubble cloud characteristics and ablation efficiency in dual-frequency intrinsic threshold histotripsy. Physics in Medicine and Biology, 2023, 68, 225006.	3.1	5
11	Clinical translation of abdominal histotripsy: a review of preclinical studies in large animal models. International Journal of Hyperthermia, 2023, 40, .	2.6	13
12	Histotripsy Ablation in Preclinical Animal Models of Cancer and Spontaneous Tumors in Veterinary Patients: A Review. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2022, 69, 5-26.	2.6	28
13	Histotripsy for the Treatment of Cholangiocarcinoma in a Patient-Derived Xenograft Mouse Model. Ultrasound in Medicine and Biology, 2022, 48, 293-303.	2.1	14
14	Electroresponsive Hydrogels for Therapeutic Applications in the Brain. Macromolecular Bioscience, 2022, 22, .	4.0	29
15	Characterization and structure-property relationships of an injectable thiol-Michael addition hydrogel toward compatibility with glioblastoma therapy. Acta Biomaterialia, 2022, 144, 266-278.	9.4	17
16	Histotripsy for the Treatment of Uterine Leiomyomas: A Feasibility Study in Ex Vivo Uterine Fibroids. Ultrasound in Medicine and Biology, 2022, 48, 1652-1662.	2.1	18
17	Development of Tough Hydrogel Phantoms to Mimic Fibrous Tissue for Focused Ultrasound Therapies. Ultrasound in Medicine and Biology, 2022, 48, 1762-1777.	2.1	19
18	Endoscopic Coregistered Ultrasound Imaging and Precision Histotripsy: Initial In Vivo Evaluation. BME Frontiers, 2022, 2022, .	6.6	21

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19	Experimental and Computational Investigation of Clustering Behavior of Cyclodextrinâ€“Perfluorocarbon Inclusion Complexes as Effective Histotripsy Agents. Molecular Pharmaceutics, 2022, 19, 2907-2921.	4.3	5
20	Noninvasive Low-Intensity Focused Ultrasound Mediates Tissue Protection following Ischemic Stroke. BME Frontiers, 2022, 2022, .	6.6	14
21	Particle-Mediated Histotripsy for the Targeted Treatment of Intraluminal Biofilms in Catheter-Based Medical Devices. BME Frontiers, 2022, 2022, .	6.6	8
22	Histotripsy: the first noninvasive, non-ionizing, non-thermal ablation technique based on ultrasound. International Journal of Hyperthermia, 2021, 38, 561-575.	2.6	296
23	Bubble Cloud Behavior and Ablation Capacity for Histotripsy Generated from Intrinsic or Artificial Cavitation Nuclei. Ultrasound in Medicine and Biology, 2021, 47, 620-639.	2.1	40
24	Establishing an immunocompromised porcine model of human cancer for novel therapy development with pancreatic adenocarcinoma and irreversible electroporation. Scientific Reports, 2021, 11, .	3.5	20
25	Immunological Effects of Histotripsy for Cancer Therapy. Frontiers in Oncology, 2021, 11, .	2.7	71
26	Focused ultrasound tumour ablation in small animal oncology. Veterinary and Comparative Oncology, 2021, 19, 411-419.	2.0	6
27	Transcostal Histotripsy Ablation in an In Vivo Acute Hepatic Porcine Model. CardioVascular and Interventional Radiology, 2021, 44, 1643-1650.	1.7	16
28	Histotripsy Ablation of Bone Tumors: Feasibility Study in Excised Canine Osteosarcoma Tumors. Ultrasound in Medicine and Biology, 2021, 47, 3435-3446.	2.1	32
29	Focused Ultrasound Biofilm Ablation: Investigation of Histotripsy for the Treatment of Catheter-Associated Urinary Tract Infections (CAUTIs). IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2021, 68, 2965-2980.	2.6	15
30	Histotripsy Ablation Alters the Tumor Microenvironment and Promotes Immune System Activation in a Subcutaneous Model of Pancreatic Cancer. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2021, 68, 2987-3000.	2.6	69
31	Histotripsy for the Treatment of Cholangiocarcinoma Liver Tumors: In Vivo Feasibility and Ex Vivo Dosimetry Study. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2021, 68, 2953-2964.	2.6	35
32	Effects of frequency on bubble-cloud behavior and ablation efficiency in intrinsic threshold histotripsy. Physics in Medicine and Biology, 2021, 66, 225009.	3.1	30
33	Focused ultrasound extraction (FUSE) for the rapid extraction of DNA from tissue matrices. Methods in Ecology and Evolution, 2020, 11, 1599-1608.	5.2	10
34	Effects of Histotripsy on Local Tumor Progression in an in vivo Orthotopic Rodent Liver Tumor Model. BME Frontiers, 2020, 2020, .	6.6	46
35	Modeling tissue-selective cavitation damage. Physics in Medicine and Biology, 2019, 64, 225001.	3.1	68
36	Robotically Assisted Sonic Therapy (RAST) for Noninvasive Hepatic Ablation in a Porcine Model: Mitigation of Body Wall Damage with a Modified Pulse Sequence. CardioVascular and Interventional Radiology, 2019, 42, 1016-1023.	1.7	40

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37	Nanoparticle-mediated histotripsy (NMH) using perfluorohexane â€˜nanoconesâ€™. Physics in Medicine and Biology, 2019, 64, 125018.	3.1	22
38	Development of Acoustically Active Nanocones Using the Hostâ€“Guest Interaction as a New Histotripsy Agent. ACS Omega, 2019, 4, 4176-4184.	4.3	20
39	For Whom the Bubble Grows: Physical Principles of Bubble Nucleation and Dynamics in Histotripsy Ultrasound Therapy. Ultrasound in Medicine and Biology, 2019, 45, 1056-1080.	2.1	184
40	Robotically Assisted Sonic Therapy as a Noninvasive Nonthermal Ablation Modality: Proof of Concept in a Porcine Liver Model. Radiology, 2018, 287, 485-493.	8.9	85
41	Predicting Tissue Susceptibility to Mechanical Cavitation Damage in Therapeutic Ultrasound. Ultrasound in Medicine and Biology, 2017, 43, 1421-1440.	2.1	69
42	Effects off-number on the histotripsy intrinsic threshold and cavitation bubble cloud behavior. Physics in Medicine and Biology, 2017, 62, 1269-1290.	3.1	63
43	Non-Invasive Liver Ablation Using Histotripsy: Preclinical Safety Study in an InÂVivo Porcine Model. Ultrasound in Medicine and Biology, 2017, 43, 1237-1251.	2.1	60
44	Visualizing the Histotripsy Process: Bubble Cloudâ€“Cancer Cell Interactions in a Tissue-Mimicking Environment. Ultrasound in Medicine and Biology, 2016, 42, 2466-2477.	2.1	127
45	Noninvasive Ablation of Prostate Cancer Spheroids Using Acoustically-Activated Nanodroplets. Molecular Pharmaceutics, 2016, 13, 4054-4065.	4.3	34
46	Effects of Temperature on the Histotripsy Intrinsic Threshold for Cavitation. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2016, 63, 1064-1077.	2.6	48
47	Non-Invasive Ultrasound Liver Ablation Using Histotripsy: Chronic Study in an InÂVivo Rodent Model. Ultrasound in Medicine and Biology, 2016, 42, 1890-1902.	2.1	65
48	Effects of Droplet Composition on Nanodroplet-Mediated Histotripsy. Ultrasound in Medicine and Biology, 2016, 42, 931-946.	2.1	27
49	The role of positive and negative pressure on cavitation nucleation in nanodroplet-mediated histotripsy. Physics in Medicine and Biology, 2016, 61, 663-682.	3.1	34
50	Noninvasive thrombolysis using microtripsy: a parameter study. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2015, 62, 2092-2105.	2.6	36
51	Effects of tissue stiffness, ultrasound frequency, and pressure on histotripsy-induced cavitation bubble behavior. Physics in Medicine and Biology, 2015, 60, 2271-2292.	3.1	123
52	Effects of Ultrasound Frequency and Tissue Stiffness on the Histotripsy Intrinsic Threshold for Cavitation. Ultrasound in Medicine and Biology, 2015, 41, 1651-1667.	2.1	170
53	Effects of Ultrasound Frequency on Nanodroplet-Mediated Histotripsy. Ultrasound in Medicine and Biology, 2015, 41, 2135-2147.	2.1	50
54	Effects of Thermal Preconditioning on Tissue Susceptibility to Histotripsy. Ultrasound in Medicine and Biology, 2015, 41, 2938-2954.	2.1	26

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55	Effects of tissue mechanical properties on susceptibility to histotripsy-induced tissue damage. Physics in Medicine and Biology, 2014, 59, 253-270.	3.1	157
56	Development of Nanodroplets for Histotripsy-Mediated Cell Ablation. Molecular Pharmaceutics, 2014, 11, 3684-3695.	4.3	27
57	Histotripsy-induced cavitation cloud initiation thresholds in tissues of different mechanical properties. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2014, 61, 341-352.	2.6	138
58	Image-Guided Non-Invasive Ultrasound Liver Ablation Using Histotripsy: Feasibility Study in an InÂVivo Porcine Model. Ultrasound in Medicine and Biology, 2013, 39, 1398-1409.	2.1	162
59	Nanodroplet-Mediated Histotripsy for Image-guided Targeted Ultrasound Cell Ablation. Theranostics, 2013, 3, 851-864.	11.5	101
60	Effects of pulse repetition frequency on bubble cloud characteristics and ablation in single-cycle histotripsy. Physics in Medicine and Biology, 0, , .	3.1	2