

Vesna Zderic

List of Publications by Year in descending order

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Version: 2024-02-01

48
papers

1,324
citations

304743

22
h-index

345221

36
g-index

51
all docs

51
docs citations

51
times ranked

1256
citing authors

#	ARTICLE	IF	CITATIONS
1	Gel phantom for use in high-intensity focused ultrasound dosimetry. <i>Ultrasound in Medicine and Biology</i> , 2005, 31, 1383-1389.	1.5	221
2	Hyperecho in ultrasound images of HIFU therapy: Involvement of cavitation. <i>Ultrasound in Medicine and Biology</i> , 2005, 31, 947-956.	1.5	150
3	Biological and physical mechanisms of HIFU-induced hyperecho in ultrasound images. <i>Ultrasound in Medicine and Biology</i> , 2006, 32, 1721-1729.	1.5	84
4	Pulsed high intensity focused ultrasound increases penetration and therapeutic efficacy of monoclonal antibodies in murine xenograft tumors. <i>Journal of Controlled Release</i> , 2012, 162, 218-224.	9.9	64
5	Ocular drug delivery using 20-kHz ultrasound. <i>Ultrasound in Medicine and Biology</i> , 2002, 28, 823-829.	1.5	59
6	Attenuation of porcine tissues in vivo after high-intensity ultrasound treatment. <i>Ultrasound in Medicine and Biology</i> , 2004, 30, 61-66.	1.5	58
7	Hemorrhage control using high intensity focused ultrasound. <i>International Journal of Hyperthermia</i> , 2007, 23, 203-211.	2.5	55
8	Drug Delivery Into the Eye With the Use of Ultrasound. <i>Journal of Ultrasound in Medicine</i> , 2004, 23, 1349-1359.	1.7	52
9	Hemorrhage control in arteries using high-intensity focused ultrasound: A survival study. <i>Ultrasonics</i> , 2006, 44, 46-53.	3.9	47
10	Ultrasound-Enhanced Transcorneal Drug Delivery. <i>Cornea</i> , 2004, 23, 804-811.	1.7	46
11	Mechanical bioeffects of pulsed high intensity focused ultrasound on a simple neural model. <i>Medical Physics</i> , 2012, 39, 4274-4283.	3.0	46
12	Therapeutic Modulation of Calcium Dynamics Using Ultrasound and Other Energy-Based Techniques. <i>IEEE Reviews in Biomedical Engineering</i> , 2016, 9, 177-191.	18.0	37
13	Ultrasound-Enhanced Delivery of Antibiotics and Anti-Inflammatory Drugs Into the Eye. <i>Ultrasound in Medicine and Biology</i> , 2013, 39, 638-646.	1.5	33
14	Ultrasound Stimulation of Insulin Release from Pancreatic Beta Cells as a Potential Novel Treatment for Type 2 Diabetes. <i>Ultrasound in Medicine and Biology</i> , 2017, 43, 1210-1222.	1.5	32
15	Pulsatile Flow Phantom for Ultrasound Image-Guided HIFU Treatment of Vascular Injuries. <i>Ultrasound in Medicine and Biology</i> , 2007, 33, 1269-1276.	1.5	31
16	Ultrasound-enhanced ocular delivery of dexamethasone sodium phosphate: an in vivo study. <i>Journal of Therapeutic Ultrasound</i> , 2014, 2, 6.	2.2	30
17	Prevention of postfocal thermal damage by formation of bubbles at the focus during high intensity focused ultrasound therapy. <i>Medical Physics</i> , 2008, 35, 4292-4299.	3.0	27
18	Ultrasound-Mediated Nail Drug Delivery System. <i>Journal of Ultrasound in Medicine</i> , 2011, 30, 1723-1730.	1.7	27

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19	Thermal safety of ultrasound-enhanced ocular drug delivery: A modeling study. <i>Medical Physics</i> , 2015, 42, 5604-5615.	3.0	27
20	Microbubble-enhanced hemorrhage control using high intensity focused ultrasound. <i>Ultrasonics</i> , 2006, 45, 113-120.	3.9	25
21	Therapeutic Systems and Technologies: State-of-the-Art Applications, Opportunities, and Challenges. <i>IEEE Reviews in Biomedical Engineering</i> , 2020, 13, 325-339.	18.0	25
22	Extracorporeal, low-energy focused ultrasound for noninvasive and nondestructive targeted hyperthermia. <i>Future Oncology</i> , 2010, 6, 1497-1511.	2.4	24
23	Optimization of pulsed focused ultrasound exposures for hyperthermia applications. <i>Journal of the Acoustical Society of America</i> , 2011, 130, 599-609.	1.1	22
24	Calcium-dependent ultrasound stimulation of secretory events from pancreatic beta cells. <i>Journal of Therapeutic Ultrasound</i> , 2017, 5, 30.	2.2	14
25	Resection of Abdominal Solid Organs Using High-Intensity Focused Ultrasound. <i>Ultrasound in Medicine and Biology</i> , 2007, 33, 1251-1258.	1.5	12
26	Focused ultrasound facilitated thermo-chemotherapy for targeted retinoblastoma treatment: A modeling study. <i>Experimental Eye Research</i> , 2012, 100, 17-25.	2.6	11
27	Model for Porosity Changes Occurring during Ultrasound-Enhanced Transcorneal Drug Delivery. <i>Ultrasound in Medicine and Biology</i> , 2017, 43, 1223-1236.	1.5	10
28	Ultrasound-Enhanced Drug Delivery for Treatment of Onychomycosis. <i>Journal of Ultrasound in Medicine</i> , 2018, 37, 1743-1752.	1.7	9
29	Robot-Assisted Semi-Autonomous Ultrasound Imaging With Tactile Sensing and Convolutional Neural-Networks. <i>IEEE Transactions on Medical Robotics and Bionics</i> , 2021, 3, 96-105.	3.2	8
30	Therapeutic Ultrasound-Enhanced Transcorneal PHMB Delivery In Vitro. <i>Journal of Ultrasound in Medicine</i> , 2021, 40, 2561-2570.	1.7	8
31	Feasibility of Therapeutic Ultrasound Application in Topical Scleral Delivery of Avastin. <i>Translational Vision Science and Technology</i> , 2021, 10, 2.	2.2	6
32	Therapeutic Ultrasound-Induced Insulin Release in Vivo. <i>Ultrasound in Medicine and Biology</i> , 2020, 46, 639-648.	1.5	5
33	Ultrasound-Enhanced Transcorneal Drug Delivery for Treatment of Fungal Keratitis. <i>Cornea</i> , 2022, 41, 894-900.	1.7	5
34	HIFU-Induced Hyperecho in Ultrasound Images, Cavitation Activity and Thermal Behavior. <i>AIP Conference Proceedings</i> , 2005, , .	0.4	4
35	Surface Acoustic Wave devices for ocular drug delivery. , 2010, , .		2
36	Effect of Therapeutic Ultrasound on the Release of Insulin, Glucagon, and Alpha-Amylase from Ex Vivo Pancreatic Models. <i>Journal of Ultrasound in Medicine</i> , 2021, 40, 2709-2719.	1.7	2

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37	Optical/Acoustic Radiation Imaging in tissue-mimicking bladder wall phantoms. , 2011, , .		1
38	2089268 Ultrasound Stimulation of Insulin Release From Pancreatic Beta Cells. Ultrasound in Medicine and Biology, 2015, 41, S65.	1.5	1
39	Preliminary findings on ultrasound modulation of the electromechanical function of human stem-cell-derived cardiomyocytes. , 2017, , .		1
40	Ultrasound-Induced Insulin Release as a Potential Novel Treatmentfor Type 2 Diabetes Mellitus. , 2018, 2018, 6060-6063.		1
41	Intra- and Interobserver Reliability and Variability of Femoral Artery Pseudoaneurysm Measurements Between Pre- and Postprocessed B-mode Sonographic Images. Journal of Diagnostic Medical Sonography, 2019, 35, 87-94.	0.3	1
42	Ex Vivo Imaging of Ultrasound-Stimulated Metabolic Activity in Rat Pancreatic Slices. Ultrasound in Medicine and Biology, 2021, 47, 666-678.	1.5	1
43	Thin-Profile Transducers for Intraoperative Hemostasis. AIP Conference Proceedings, 2005, , .	0.4	0
44	Notice of Removal: Ultrasound-enhanced drug delivery for treatment of Onychomycosis. , 2017, , .		0
45	Notice of Removal: Study of calcium-dynamics in ultrasound-stimulated secretory events in pancreatic beta cells. , 2017, , .		0
46	Reliability and Variability Assessment of Femoral Artery Pseudoaneurysm Measurements Between Pre- and Postprocessed B-mode Ultrasound Images. Journal of Diagnostic Medical Sonography, 2020, 36, 212-222.	0.3	0
47	Therapeutic Ultrasound-Enhanced Transcorneal Drug Delivery for Fungal Keratitis Treatment. , 2021, , .		0
48	Therapeutic Ultrasound Effects on Human Induced Pluripotent Stem Cell Cardiomyocytes Measured Optically and with Spectral Ultrasound. Ultrasound in Medicine and Biology, 2022, , .	1.5	0