Ai-Ho Liao

List of Publications by Year in descending order

49 papers	638 citations	516710 16 h-index	610901 24 g-index
49 all docs	49 docs citations	49 times ranked	869 citing authors

#	Article	IF	Citations
1	Photoacoustic/ultrasound dual-modality contrast agent and its application to thermotherapy. Journal of Biomedical Optics, 2012, 17, 045001.	2.6	54
2	Synergistic delivery of gold nanorods using multifunctional microbubbles for enhanced plasmonic photothermal therapy. Scientific Reports, 2015, 4, 5685.	3.3	50
3	Ultrasound-aided microbubbles facilitate the delivery of drugs to the inner ear via the round window membrane. Journal of Controlled Release, 2013, 167, 167-174.	9.9	39
4	Efficacy of Combined Ultrasound-and-Microbubbles-Mediated Diclofenac Gel Delivery to Enhance Transdermal Permeation in Adjuvant-Induced Rheumatoid Arthritis in the Rat. Ultrasound in Medicine and Biology, 2016, 42, 1976-1985.	1.5	30
5	Paramagnetic perfluorocarbon-filled albumin-(Gd-DTPA) microbubbles for the induction of focused-ultrasound-induced bloodâ€“brain barrier opening and concurrent MR and ultrasound imaging. Physics in Medicine and Biology, 2012, 57, 2787-2802.	3.0	29
6	Penetration depth, concentration and efficiency of transdermal Î±-arbutin delivery after ultrasound treatment with albumin-shelled microbubbles in mice. Drug Delivery, 2016, 23, 2173-2182.	5.7	27
7	Effectiveness of a Layer-by-Layer Microbubbles-Based Delivery System for Applying Minoxidil to Enhance Hair Growth. Theranostics, 2016, 6, 817-827.	10.0	25
8	Effects of Microbubble Size on Ultrasound-Induced Transdermal Delivery of High-Molecular-Weight Drugs. PLoS ONE, 2015, 10, e0138500.	2.5	24
9	Ultrasound-Mediated EGF-Coated-Microbubble Cavitation in Dressings for Wound-Healing Applications. Scientific Reports, 2018, 8, 8327.	3.3	24
10	Effects of Microbubble Size on Ultrasound-Mediated Gene Transfection in Auditory Cells. BioMed Research International, 2014, 2014, 1-11.	1.9	22
11	Potential contrast improvement in ultrasound pulse inversion imaging using EMD and EEMD. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2010, 57, 317-326.	3.0	21
12	Ultrasound-induced microbubble cavitation via a transcanal or transcranial approach facilitates inner ear drug delivery. JCI Insight, 2020, 5, .	5.0	21
13	Evaluation of 18F-labeled targeted perfluorocarbon-filled albumin microbubbles as a probe for microUS and microPET in tumor-bearing mice. Ultrasonics, 2013, 53, 320-327.	3.9	20
14	Ultrasonic-assisted supercritical-CO2 electrodeposition of Zn-Co film for high-performance corrosion inhibition: A greener approach. Ultrasonics Sonochemistry, 2021, 72, 105463.	8.2	20
15	Low-frequency dual-frequency ultrasound-mediated microbubble cavitation for transdermal minoxidil delivery and hair growth enhancement. Scientific Reports, 2020, 10, 4338.	3.3	18
16	Insonation of Systemically Delivered Cisplatin-Loaded Microbubbles Significantly Attenuates Nephrotoxicity of Chemotherapy in Experimental Models of Head and Neck Cancer. Cancers, 2018, 10, 311.	3.7	17
17	Estimating the Delivery Efficiency of Drug-Loaded Microbubbles in Cancer Cells with Ultrasound and Bioluminescence Imaging. Ultrasound in Medicine and Biology, 2012, 38, 1938-1948.	1.5	16
18	Efficacy of transdermal magnesium ascorbyl phosphate delivery after ultrasound treatment with microbubbles in gel-type surrounding medium in mice. Materials Science and Engineering C, 2016, 61, 591-598.	7.3	16

#	Article	IF	Citations
19	Influence of ultrasonic combined supercritical-CO2 electrodeposition process on copper film fabrication: Electrochemical evaluation. Ultrasonics Sonochemistry, 2021, 74, 105555.	8.2	16
20	Treatment effects of lysozyme-shelled microbubbles and ultrasound in inflammatory skin disease. Scientific Reports, 2017, 7, 41325.	3.3	15
21	Development of thermosensitive poloxamer 407-based microbubble gel with ultrasound mediation for inner ear drug delivery. Drug Delivery, 2021, 28, 1256-1271.	5.7	15
22	Enhanced Therapeutic Epidermal Growth Factor Receptor (EGFR) Antibody Delivery via Pulsed Ultrasound with Targeting Microbubbles for Glioma Treatment. Journal of Medical and Biological Engineering, 2015, 35, 156-164.	1.8	11
23	Characterization of Malignant Focal Liver Lesions with Contrast-Enhanced 40 MHz Ultrasound Imaging in Hepatitis B Virus X Transgenic Mice: A Feasibility Study. Ultrasonic Imaging, 2008, 30, 203-216.	2.6	10
24	Experimental verification of a two-dimensional respiratory motion compensation system with ultrasound tracking technique in radiation therapy. Physica Medica, 2018, 49, 11-18.	0.7	10
25	Evaluation of Ultrasound Combined with Chitosan for the Control of Weight and Local Fat in Mice. Ultrasound in Medicine and Biology, 2013, 39, 1794-1803.	1.5	8
26	Ultrasound Microbubbles Enhance the Efficacy of Insulin-Like Growth Factor-1 Therapy for the Treatment of Noise-Induced Hearing Loss. Molecules, 2021, 26, 3626.	3.8	8
27	Application of ultrasound-mediated adapalene-coated lysozyme-shelled microbubbles in UVA-induced skin photoaging. PLoS ONE, 2020, 15, e0232617.	2.5	8
28	Ultrasound in Biomedical Engineering: Ultrasound Microbubble Contrast Agents Promote Transdermal Permeation of Drugs. Journal of Medical Ultrasound, 2016, 24, 86-88.	0.4	7
29	Combining Microbubble Contrast Agent with Pulsed-Laser Irradiation for Transdermal Drug Delivery. Pharmaceutics, 2018, 10, 175.	4.5	7
30	Noninvasive Tumor Imaging with High-Frequency Ultrasound and MicroPET in Small Animals. Ultrasonic Imaging, 2007, 29, 201-212.	2.6	6
31	Fast Fourier transform combined with phase leading compensator for respiratory motion compensation system. Quantitative Imaging in Medicine and Surgery, 2020, 10, 907-920.	2.0	6
32	Deep Learning of Ultrasound Imaging for Evaluating Ambulatory Function of Individuals with Duchenne Muscular Dystrophy. Diagnostics, 2021, 11, 963.	2.6	6
33	Minoxidil-Coated Lysozyme-Shelled Microbubbes Combined With Ultrasound for the Enhancement of Hair Follicle Growth: Efficacy In Vitro and In Vivo. Frontiers in Pharmacology, 2021, 12, 668754.	3.5	5
34	A Three-Dimensional Registration Method for MicroUS/MicroPET Multimodality Small-Animal Imaging. Ultrasonic Imaging, 2007, 29, 155-166.	2.6	4
35	Tracking and compensation of respiration pattern by an automatic compensation system. Medical Physics, 2017, 44, 2077-2095.	3.0	4
36	Tumor motion tracking based on a four-dimensional computed tomography respiratory motion model driven by an ultrasound tracking technique. Quantitative Imaging in Medicine and Surgery, 2020, 10, 26-39.	2.0	4

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37	Application of Ultrasound Image Tracking Algorithm for Real-Time Diaphragmatic Excursion Measurement. Journal of Medical and Biological Engineering, 2018, 38, 678-684.	1.8	3
38	Contrast improvement by combining pulse inversion with EMD and EEMD. , 2009, , .		2
39	Simulating the approximate irregular field dose distribution in radiotherapy using an ultrasound tracking technique. Physica Medica, 2020, 70, 19-27.	0.7	2
40	Synergistic effects of combined treatment with ultrasoundâ€mediated cisplatinâ€loaded microbubbles and atorvastatin on head and neck cancer. Head and Neck, 2021, 43, 15-26.	2.0	2
41	Title is missing!. Journal of Medical and Biological Engineering, 2013, 33, 285.	1.8	2
42	Mechanisms of ultrasound-microbubble cavitation for inducing the permeability of human skin. Journal of Controlled Release, 2022, 349, 388-400.	9.9	2
43	The lifetime and attenuation properties measurements of a US/MR multimodality molecular probe. , 2013, 2013, 6965-8.		1
44	Development of an in vitro diaphragm motion reproduction system. Physica Medica, 2017, 39, 39-49.	0.7	1
45	Ultrasonic pulse-inversion fundamental imaging with liposome microbubbles at 25-50 mhz. , 0, , .		0
46	Non-Invasive Imaging of Small-Animal Tumors: High-Frequency Ultrasound vs. MicroPET. , 2005, 2005, 5695-8.		0
47	Targeted multimodality contrast agent: Synthesis and applications of ¹⁸F-labeled targeted perfluorocarbon-filled albumin microbubbles for microUS and microPET. , 2009, , .		0
48	The feasibility of an approximate irregular field dose distribution simulation program applied to a respiratory motion compensation system. Physica Medica, 2021, 88, 117-126.	0.7	0
49	Percutaneous endoscopic gastrostomy prior to esophagectomy for esophageal cancer â€“ a systematic review and meta-analysis. Expert Review of Gastroenterology and Hepatology, 2022, , 1-8.	3.0	0