

# Ai-Ho Liao

## List of Publications by Year in descending order

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Version: 2024-02-01

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	Percutaneous endoscopic gastrostomy prior to esophagectomy for esophageal cancer – a systematic review and meta-analysis. <i>Expert Review of Gastroenterology and Hepatology</i> , 2022, , 1-8.	3.0	0
2	Mechanisms of ultrasound-microbubble cavitation for inducing the permeability of human skin. <i>Journal of Controlled Release</i> , 2022, 349, 388-400.	9.9	2
3	Synergistic effects of combined treatment with ultrasound-mediated cisplatin-loaded microbubbles and atorvastatin on head and neck cancer. <i>Head and Neck</i> , 2021, 43, 15-26.	2.0	2
4	Development of thermosensitive poloxamer 407-based microbubble gel with ultrasound mediation for inner ear drug delivery. <i>Drug Delivery</i> , 2021, 28, 1256-1271.	5.7	15
5	Ultrasonic-assisted supercritical-CO2 electrodeposition of Zn-Co film for high-performance corrosion inhibition: A greener approach. <i>Ultrasonics Sonochemistry</i> , 2021, 72, 105463.	8.2	20
6	Minoxidil-Coated Lysozyme-Shelled Microbubbles Combined With Ultrasound for the Enhancement of Hair Follicle Growth: Efficacy In Vitro and In Vivo. <i>Frontiers in Pharmacology</i> , 2021, 12, 668754.	3.5	5
7	Deep Learning of Ultrasound Imaging for Evaluating Ambulatory Function of Individuals with Duchenne Muscular Dystrophy. <i>Diagnostics</i> , 2021, 11, 963.	2.6	6
8	Influence of ultrasonic combined supercritical-CO2 electrodeposition process on copper film fabrication: Electrochemical evaluation. <i>Ultrasonics Sonochemistry</i> , 2021, 74, 105555.	8.2	16
9	Ultrasound Microbubbles Enhance the Efficacy of Insulin-Like Growth Factor-1 Therapy for the Treatment of Noise-Induced Hearing Loss. <i>Molecules</i> , 2021, 26, 3626.	3.8	8
10	The feasibility of an approximate irregular field dose distribution simulation program applied to a respiratory motion compensation system. <i>Physica Medica</i> , 2021, 88, 117-126.	0.7	0
11	Tumor motion tracking based on a four-dimensional computed tomography respiratory motion model driven by an ultrasound tracking technique. <i>Quantitative Imaging in Medicine and Surgery</i> , 2020, 10, 26-39.	2.0	4
12	Fast Fourier transform combined with phase leading compensator for respiratory motion compensation system. <i>Quantitative Imaging in Medicine and Surgery</i> , 2020, 10, 907-920.	2.0	6
13	Low-frequency dual-frequency ultrasound-mediated microbubble cavitation for transdermal minoxidil delivery and hair growth enhancement. <i>Scientific Reports</i> , 2020, 10, 4338.	3.3	18
14	Simulating the approximate irregular field dose distribution in radiotherapy using an ultrasound tracking technique. <i>Physica Medica</i> , 2020, 70, 19-27.	0.7	2
15	Ultrasound-induced microbubble cavitation via a transcanal or transcranial approach facilitates inner ear drug delivery. <i>JCI Insight</i> , 2020, 5, .	5.0	21
16	Application of ultrasound-mediated adapalene-coated lysozyme-shelled microbubbles in UVA-induced skin photoaging. <i>PLoS ONE</i> , 2020, 15, e0232617.	2.5	8
17	Application of Ultrasound Image Tracking Algorithm for Real-Time Diaphragmatic Excursion Measurement. <i>Journal of Medical and Biological Engineering</i> , 2018, 38, 678-684.	1.8	3
18	Combining Microbubble Contrast Agent with Pulsed-Laser Irradiation for Transdermal Drug Delivery. <i>Pharmaceutics</i> , 2018, 10, 175.	4.5	7

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19	Insonation of Systemically Delivered Cisplatin-Loaded Microbubbles Significantly Attenuates Nephrotoxicity of Chemotherapy in Experimental Models of Head and Neck Cancer. <i>Cancers</i> , 2018, 10, 311.	3.7	17
20	Ultrasound-Mediated EGF-Coated-Microbubble Cavitation in Dressings for Wound-Healing Applications. <i>Scientific Reports</i> , 2018, 8, 8327.	3.3	24
21	Experimental verification of a two-dimensional respiratory motion compensation system with ultrasound tracking technique in radiation therapy. <i>Physica Medica</i> , 2018, 49, 11-18.	0.7	10
22	Treatment effects of lysozyme-shelled microbubbles and ultrasound in inflammatory skin disease. <i>Scientific Reports</i> , 2017, 7, 41325.	3.3	15
23	Tracking and compensation of respiration pattern by an automatic compensation system. <i>Medical Physics</i> , 2017, 44, 2077-2095.	3.0	4
24	Development of an in vitro diaphragm motion reproduction system. <i>Physica Medica</i> , 2017, 39, 39-49.	0.7	1
25	Effectiveness of a Layer-by-Layer Microbubbles-Based Delivery System for Applying Minoxidil to Enhance Hair Growth. <i>Theranostics</i> , 2016, 6, 817-827.	10.0	25
26	Efficacy of Combined Ultrasound-and-Microbubbles-Mediated Diclofenac Gel Delivery to Enhance Transdermal Permeation in Adjuvant-Induced Rheumatoid Arthritis in the Rat. <i>Ultrasound in Medicine and Biology</i> , 2016, 42, 1976-1985.	1.5	30
27	Ultrasound in Biomedical Engineering: Ultrasound Microbubble Contrast Agents Promote Transdermal Permeation of Drugs. <i>Journal of Medical Ultrasound</i> , 2016, 24, 86-88.	0.4	7
28	Efficacy of transdermal magnesium ascorbyl phosphate delivery after ultrasound treatment with microbubbles in gel-type surrounding medium in mice. <i>Materials Science and Engineering C</i> , 2016, 61, 591-598.	7.3	16
29	Penetration depth, concentration and efficiency of transdermal $\alpha$ -arbutin delivery after ultrasound treatment with albumin-shelled microbubbles in mice. <i>Drug Delivery</i> , 2016, 23, 2173-2182.	5.7	27
30	Effects of Microbubble Size on Ultrasound-Induced Transdermal Delivery of High-Molecular-Weight Drugs. <i>PLoS ONE</i> , 2015, 10, e0138500.	2.5	24
31	Synergistic delivery of gold nanorods using multifunctional microbubbles for enhanced plasmonic photothermal therapy. <i>Scientific Reports</i> , 2015, 4, 5685.	3.3	50
32	Enhanced Therapeutic Epidermal Growth Factor Receptor (EGFR) Antibody Delivery via Pulsed Ultrasound with Targeting Microbubbles for Glioma Treatment. <i>Journal of Medical and Biological Engineering</i> , 2015, 35, 156-164.	1.8	11
33	Effects of Microbubble Size on Ultrasound-Mediated Gene Transfection in Auditory Cells. <i>BioMed Research International</i> , 2014, 2014, 1-11.	1.9	22
34	Ultrasound-aided microbubbles facilitate the delivery of drugs to the inner ear via the round window membrane. <i>Journal of Controlled Release</i> , 2013, 167, 167-174.	9.9	39
35	Evaluation of $^{18}\text{F}$ -labeled targeted perfluorocarbon-filled albumin microbubbles as a probe for microUS and microPET in tumor-bearing mice. <i>Ultrasonics</i> , 2013, 53, 320-327.	3.9	20
36	Evaluation of Ultrasound Combined with Chitosan for the Control of Weight and Local Fat in Mice. <i>Ultrasound in Medicine and Biology</i> , 2013, 39, 1794-1803.	1.5	8

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37	The lifetime and attenuation properties measurements of a US/MR multimodality molecular probe. , 2013, 2013, 6965-8.		1
38	Title is missing!. Journal of Medical and Biological Engineering, 2013, 33, 285.	1.8	2
39	Photoacoustic/ultrasound dual-modality contrast agent and its application to thermotherapy. Journal of Biomedical Optics, 2012, 17, 045001.	2.6	54
40	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
41	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
42	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
43	Contrast improvement by combining pulse inversion with EMD and EEMD. , 2009, , .		2
44	Targeted multimodality contrast agent: Synthesis and applications of <sup>18</sup> F-labeled targeted perfluorocarbon-filled albumin microbubbles for microUS and microPET. , 2009, , .		0
45	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
46	A Three-Dimensional Registration Method for MicroUS/MicroPET Multimodality Small-Animal Imaging. Ultrasonic Imaging, 2007, 29, 155-166.	2.6	4
47	Noninvasive Tumor Imaging with High-Frequency Ultrasound and MicroPET in Small Animals. Ultrasonic Imaging, 2007, 29, 201-212.	2.6	6
48	Non-Invasive Imaging of Small-Animal Tumors: High-Frequency Ultrasound vs. MicroPET. , 2005, 2005, 5695-8.		0
49	Ultrasonic pulse-inversion fundamental imaging with liposome microbubbles at 25-50 mhz. , 0, , .		0