

Zhihong Huang

List of Publications by Year in descending order

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Version: 2024-02-01

63
papers

1,328
citations

394421

19
h-index

377865

34
g-index

64
all docs

64
docs citations

64
times ranked

1423
citing authors

#	ARTICLE	IF	CITATIONS
1	Determining elastic properties of skin by measuring surface waves from an impulse mechanical stimulus using phase-sensitive optical coherence tomography. <i>Journal of the Royal Society Interface</i> , 2012, 9, 831-841.	3.4	217
2	Quantitative elastography provided by surface acoustic waves measured by phase-sensitive optical coherence tomography. <i>Optics Letters</i> , 2012, 37, 722.	3.3	103
3	Elastic properties of soft tissue-mimicking phantoms assessed by combined use of laser ultrasonics and low coherence interferometry. <i>Optics Express</i> , 2011, 19, 10153.	3.4	89
4	Shear modulus imaging by direct visualization of propagating shear waves with phase-sensitive optical coherence tomography. <i>Journal of Biomedical Optics</i> , 2013, 18, 1.	2.6	88
5	Detection and characterisation of biopsy tissue using quantitative optical coherence elastography (OCE) in men with suspected prostate cancer. <i>Cancer Letters</i> , 2015, 357, 121-128.	7.2	59
6	Shear wave elastography using amplitude-modulated acoustic radiation force and phase-sensitive optical coherence tomography. <i>Journal of Biomedical Optics</i> , 2015, 20, 016001.	2.6	49
7	Progress of 3D Integration Technologies and 3D Interconnects. , 2007, , .		47
8	Shear wave pulse compression for dynamic elastography using phase-sensitive optical coherence tomography. <i>Journal of Biomedical Optics</i> , 2014, 19, 016013.	2.6	47
9	Quantitative elasticity measurement of urinary bladder wall using laser-induced surface acoustic waves. <i>Biomedical Optics Express</i> , 2014, 5, 4313.	2.9	46
10	Laser induced surface acoustic wave combined with phase sensitive optical coherence tomography for superficial tissue characterization: a solution for practical application. <i>Biomedical Optics Express</i> , 2014, 5, 1403.	2.9	44
11	Prediction of prostate cancer Gleason score upgrading from biopsy to radical prostatectomy using pre-biopsy multiparametric MRI PIRADS scoring system. <i>Scientific Reports</i> , 2020, 10, 7722.	3.3	39
12	Elastic properties of Thielâ€embalmed human ankle tendon and ligament. <i>Clinical Anatomy</i> , 2015, 28, 917-924.	2.7	35
13	Spatial resolution in dynamic optical coherence elastography. <i>Journal of Biomedical Optics</i> , 2019, 24, 1.	2.6	34
14	Performance Characteristics of Transrectal Shear Wave Elastography Imaging in the Evaluation of Clinically Localized Prostate Cancer: A Prospective Study. <i>Journal of Urology</i> , 2018, 200, 549-558.	0.4	32
15	Second harmonic generation (SHG) imaging of cancer heterogeneity in ultrasound guided biopsies of prostate in men suspected with prostate cancer. <i>Journal of Biophotonics</i> , 2017, 10, 911-918.	2.3	31
16	Effects of fixation and preservation on tissue elastic properties measured by quantitative optical coherence elastography (OCE). <i>Journal of Biomechanics</i> , 2016, 49, 1009-1015.	2.1	29
17	Quantitative parameters in dynamic contrast-enhanced magnetic resonance imaging for the detection and characterization of prostate cancer. <i>Oncotarget</i> , 2018, 9, 15997-16007.	1.8	28
18	Predicting the Performance of Concurrent Systematic Random Biopsies during Image Fusion Targeted Sampling of Multi-Parametric MRI Detected Prostate Cancer. A Prospective Study (PRESET Study). <i>Cancers</i> , 2022, 14, 1.	3.7	26

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19	Experimental investigation of electromigration failure in Cu/Sn/Cu micropads in 3D integrated circuits. <i>Microelectronic Engineering</i> , 2014, 122, 46-51.	2.4	22
20	Functional Piezocrystal Characterisation under Varying Conditions. <i>Materials</i> , 2015, 8, 8304-8326.	2.9	21
21	3D Die-to-wafer Cu/Sn Microconnects Formed Simultaneously with an Adhesive Dielectric Bond Using Thermal Compression Bonding. , 2008, , .		17
22	A Prototype Therapeutic Capsule Endoscope for Ultrasound-Mediated Targeted Drug Delivery. <i>Journal of Medical Robotics Research</i> , 2018, 03, 1840001.	1.2	17
23	Optical sensory arrays for the detection of urinary bladder cancer-related volatile organic compounds. <i>Journal of Biophotonics</i> , 2019, 12, e201800165.	2.3	17
24	Acoustic Sensing and Ultrasonic Drug Delivery in Multimodal Theranostic Capsule Endoscopy. <i>Sensors</i> , 2017, 17, 1553.	3.8	15
25	Visualizing choriocapillaris using swept-source optical coherence tomography angiography with various probe beam sizes. <i>Biomedical Optics Express</i> , 2019, 10, 2847.	2.9	15
26	Loose powder detection and surface characterization in selective laser sintering via optical coherence tomography. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2016, 472, 20160201.	2.1	13
27	High-intensity-focused ultrasound and phase-sensitive optical coherence tomography for high resolution surface acoustic wave elastography. <i>Journal of Biophotonics</i> , 2018, 11, e201700051.	2.3	12
28	Feasibility study of using the dispersion of surface acoustic wave impulse for viscoelasticity characterization in tissue mimicking phantoms. <i>Journal of Biophotonics</i> , 2019, 12, e201800177.	2.3	11
29	Investigation of Ultrasound-Measured Flow Rate and Wall Shear Rate in Wrist Arteries Using Flow Phantoms. <i>Ultrasound in Medicine and Biology</i> , 2016, 42, 815-823.	1.5	10
30	Fluorometric optical sensor arrays for the detection of urinary bladder cancer specific volatile organic compounds in the urine of patients with frank hematuria: a prospective case-control study. <i>Biomedical Optics Express</i> , 2020, 11, 1175.	2.9	9
31	Investigation of active tracking for robotic arm assisted magnetic resonance guided focused ultrasound ablation. <i>International Journal of Medical Robotics and Computer Assisted Surgery</i> , 2017, 13, e1768.	2.3	8
32	A novel automatic 3D stitching algorithm for optical coherence tomography angiography and its application in dermatology. <i>Journal of Biophotonics</i> , 2021, 14, e202100152.	2.3	8
33	Quantitative measurement of mechanical properties in wound healing processes in a corneal stroma model by using vibrational optical coherence elastography (OCE). <i>Biomedical Optics Express</i> , 2021, 12, 588.	2.9	8
34	Enhanced US-guided needle intervention through ultrasound actuation of a standard needle. , 2014, , .		7
35	Deep-learning approach for automated thickness measurement of epithelial tissue and scab using optical coherence tomography. <i>Journal of Biomedical Optics</i> , 2022, 27, .	2.6	7
36	Reduced penetration force through ultrasound activation of a standard needle: An experimental and computational study. , 2013, , .		6

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37	Investigation of Ultrasound-Measured Flow Velocity, Flow Rate and Wall Shear Rate in Radial and Ulnar Arteries Using Simulation. <i>Ultrasound in Medicine and Biology</i> , 2017, 43, 981-992.	1.5	6
38	Optimal stimulation frequency for vibrational optical coherence elastography. <i>Journal of Biophotonics</i> , 2020, 13, e201960066.	2.3	6
39	Localization Accuracy of Ultrasound-Actuated Needle with Color Doppler Imaging. <i>Diagnostics</i> , 2020, 10, 1020.	2.6	6
40	A Weighted Average Phase Velocity Inversion Model for Depth-Resolved Elasticity Evaluation in Human Skin In-Vivo. <i>IEEE Transactions on Biomedical Engineering</i> , 2021, 68, 1969-1977.	4.2	6
41	Patient-specific 3D Dimensional Model for High-Intensity Focused Ultrasound Treatment Through the Rib Cage. <i>Journal of Ultrasound in Medicine</i> , 2020, 39, 883-899.	1.7	5
42	Simultaneous Measurement of Thermophysical Properties of Tissue-Mimicking Phantoms for High Intensity Focused Ultrasound (HIFU) Exposures. <i>International Journal of Thermophysics</i> , 2012, 33, 495-504.	2.1	4
43	A study of the effect of clinical washing decontamination process on corrosion resistance of Martensitic Stainless Steel 420. <i>Bio-Medical Materials and Engineering</i> , 2016, 27, 341-351.	0.6	4
44	Relaxation time constant based optical coherence elastography. <i>Journal of Biophotonics</i> , 2020, 13, e201960233.	2.3	4
45	Rapid 3D human ribcage and kidney modeling for transcostal HIFU surgery. , 2012, , .		3
46	Development of a therapeutic capsule endoscope for treatment in the gastrointestinal Tract: Bench testing to translational trial. , 2017, , .		3
47	Focused ultrasound ablation using real time ultrasound image guidance. , 2011, , .		2
48	Functional characterization of piezocrystals monitored under high power driving conditions. , 2015, , .		2
49	New approaches suggest term and preterm human fetal membranes may have distinct biomechanical properties. <i>Scientific Reports</i> , 2022, 12, 5109.	3.3	2
50	Skin characteristics by laser generated surface waves. , 2009, 2009, 4136-9.		1
51	Reliability Considerations in 3D Stacked Strata Systems. , 2009, , .		1
52	Effects of blood flow on high intensity focused ultrasound ablation. , 2011, , .		1
53	Effects of power levels and soft tissue loads on an ultrasonic planar tool driven by PMN-PT d<inf>31</inf> plates. , 2013, , .		1
54	Comparison of needle actuation transducers working in the d<inf>31</inf> and d<inf>33</inf> modes. , 2016, , .		1

#	ARTICLE	IF	CITATIONS
55	Full acoustic and thermal characterization of HIFU field in the presence of a ribcage model. AIP Conference Proceedings, 2017, , .	0.4	1
56	Notice of Removal: A fully-automated insonation system for in vitro investigations of ultrasound-mediated targeted drug delivery. , 2017, , .		1
57	Viscoelastic properties characterisation of corneal stromal models using non-contact surface acoustic wave optical coherence elastography (SAW-OCE). Journal of Biophotonics, 2021, , e202100253.	2.3	1
58	Mechanical characterization of tissue mimicking phantoms by broadband surface acoustic waves. , 2011, , .		0
59	Assessing cross-sectional elasticity map by dynamic imaging acoustic waves with phase sensitive optical coherence tomography. , 2013, , .		0
60	Phase Velocity Dispersion Curve and Elastography Based on SAWs Induced by HIFU in Tissue Mimicking Phantoms. , 2018, , .		0
61	High Intensity Focused Ultrasound (HIFU) Combines Optical Coherence Tomography(OCT) for Biological Tissue Treatment and Evaluation. , 2018, , .		0
62	Bioeffects of low-intensity continuous ultrasound (LICUS) on wound healing in corneal stromal cells in vitro. , 2021, , .		0
63	The vibro-acoustic analysis of a matching layer attached on a 1×3 piezoelectric composite transducer. Journal of Electroceramics, 0, , 1.	2.0	0