

# 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	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
2	New approaches suggest term and preterm human fetal membranes may have distinct biomechanical properties. <i>Scientific Reports</i> , 2022, 12, 5109.	3.3	2
3	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
4	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
5	A novel automatic <sc>3D</sc> stitching algorithm for optical coherence tomography angiography and its application in dermatology. <i>Journal of Biophotonics</i> , 2021, 14, e202100152.	2.3	8
6	Viscoelastic properties characterisation of corneal stromal models using non-contact surface acoustic wave optical coherence elastography (SAW-OCE). <i>Journal of Biophotonics</i> , 2021, , e202100253.	2.3	1
7	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
8	Bioeffects of low-intensity continuous ultrasound (LICUS) on wound healing in corneal stromal cells in vitro. , 2021, , .		0
9	Patient-Specific 3-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
10	Optimal stimulation frequency for vibrational optical coherence elastography. <i>Journal of Biophotonics</i> , 2020, 13, e201960066.	2.3	6
11	Localization Accuracy of Ultrasound-Actuated Needle with Color Doppler Imaging. <i>Diagnostics</i> , 2020, 10, 1020.	2.6	6
12	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
13	Relaxation time constant based optical coherence elastography. <i>Journal of Biophotonics</i> , 2020, 13, e201960233.	2.3	4
14	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
15	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
16	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
17	Spatial resolution in dynamic optical coherence elastography. <i>Journal of Biomedical Optics</i> , 2019, 24, 1.	2.6	34
18	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

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19	A Prototype Therapeutic Capsule Endoscope for Ultrasound-Mediated Targeted Drug Delivery. Journal of Medical Robotics Research, 2018, 03, 1840001.	1.2	17
20	Performance Characteristics of Transrectal Shear Wave Elastography Imaging in the Evaluation of Clinically Localized Prostate Cancer: A Prospective Study. Journal of Urology, 2018, 200, 549-558.	0.4	32
21	High-intensity-focused ultrasound and phase-sensitive optical coherence tomography for high resolution surface acoustic wave elastography. Journal of Biophotonics, 2018, 11, e201700051.	2.3	12
22	Phase Velocity Dispersion Curve and Elastography Based on SAWs Induced by HIFU in Tissue Mimicking Phantoms. , 2018, , .		0
23	High Intensity Focused Ultrasound (HIFU) Combines Optical Coherence Tomography(OCT) for Biological Tissue Treatment and Evaluation. , 2018, , .		0
24	Quantitative parameters in dynamic contrast-enhanced magnetic resonance imaging for the detection and characterization of prostate cancer. Oncotarget, 2018, 9, 15997-16007.	1.8	28
25	Investigation of active tracking for robotic arm assisted magnetic resonance guided focused ultrasound ablation. International Journal of Medical Robotics and Computer Assisted Surgery, 2017, 13, e1768.	2.3	8
26	Investigation of Ultrasound-Measured Flow Velocity, Flow Rate and Wall Shear Rate in Radial and Ulnar Arteries Using Simulation. Ultrasound in Medicine and Biology, 2017, 43, 981-992.	1.5	6
27	Full acoustic and thermal characterization of HIFU field in the presence of a ribcage model. AIP Conference Proceedings, 2017, , .	0.4	1
28	Second harmonic generation (SHG) imaging of cancer heterogeneity in ultrasound guided biopsies of prostate in men suspected with prostate cancer. Journal of Biophotonics, 2017, 10, 911-918.	2.3	31
29	Development of a therapeutic capsule endoscope for treatment in the gastrointestinal Tract: Bench testing to translational trial. , 2017, , .		3
30	Acoustic Sensing and Ultrasonic Drug Delivery in Multimodal Theranostic Capsule Endoscopy. Sensors, 2017, 17, 1553.	3.8	15
31	Notice of Removal: A fully-automated insonation system for in vitro investigations of ultrasound-mediated targeted drug delivery. , 2017, , .		1
32	Comparison of needle actuation transducers working in the $d_{31}$ and $d_{33}$ modes. , 2016, , .		1
33	A study of the effect of clinical washing decontamination process on corrosion resistance of Martensitic Stainless Steel 420. Bio-Medical Materials and Engineering, 2016, 27, 341-351.	0.6	4
34	Effects of fixation and preservation on tissue elastic properties measured by quantitative optical coherence elastography (OCE). Journal of Biomechanics, 2016, 49, 1009-1015.	2.1	29
35	Loose powder detection and surface characterization in selective laser sintering via optical coherence tomography. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2016, 472, 20160201.	2.1	13
36	Investigation of Ultrasound-Measured Flow Rate and Wall Shear Rate in Wrist Arteries Using Flow Phantoms. Ultrasound in Medicine and Biology, 2016, 42, 815-823.	1.5	10

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37	Functional Piezocrystal Characterisation under Varying Conditions. <i>Materials</i> , 2015, 8, 8304-8326.	2.9	21
38	Functional characterization of piezocrystals monitored under high power driving conditions. , 2015, , .		2
39	Elastic properties of Thielâ€œembalmed human ankle tendon and ligament. <i>Clinical Anatomy</i> , 2015, 28, 917-924.	2.7	35
40	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
41	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
42	Enhanced US-guided needle intervention through ultrasound actuation of a standard needle. , 2014, , .		7
43	Quantitative elasticity measurement of urinary bladder wall using laser-induced surface acoustic waves. <i>Biomedical Optics Express</i> , 2014, 5, 4313.	2.9	46
44	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
45	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
46	Experimental investigation of electromigration failure in Cuâ€œSnâ€œCu micropads in 3D integrated circuits. <i>Microelectronic Engineering</i> , 2014, 122, 46-51.	2.4	22
47	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
48	Effects of power levels and soft tissue loads on an ultrasonic planar tool driven by PMN-PT d&lt;inf&gt;31&lt;/inf&gt; plates. , 2013, , .		1
49	Assessing cross-sectional elasticity map by dynamic imaging acoustic waves with phase sensitive optical coherence tomography. , 2013, , .		0
50	Reduced penetration force through ultrasound activation of a standard needle: An experimental and computational study. , 2013, , .		6
51	Rapid 3D human ribcage and kidney modeling for transcostal HIFU surgery. , 2012, , .		3
52	Quantitative elastography provided by surface acoustic waves measured by phase-sensitive optical coherence tomography. <i>Optics Letters</i> , 2012, 37, 722.	3.3	103
53	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
54	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

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55	Effects of blood flow on high intensity focused ultrasound ablation. , 2011, , .		1
56	Mechanical characterization of tissue mimicking phantoms by broadband surface acoustic waves. , 2011, , .		0
57	Elastic properties of soft tissue-mimicking phantoms assessed by combined use of laser ultrasonics and low coherence interferometry. Optics Express, 2011, 19, 10153.	3.4	89
58	Focused ultrasound ablation using real time ultrasound image guidance. , 2011, , .		2
59	Skin characteristics by laser generated surface waves. , 2009, 2009, 4136-9.		1
60	Reliability Considerations in 3D Stacked Strata Systems. , 2009, , .		1
61	3D Die-to-wafer Cu/Sn Microconnects Formed Simultaneously with an Adhesive Dielectric Bond Using Thermal Compression Bonding. , 2008, , .		17
62	Progress of 3D Integration Technologies and 3D Interconnects. , 2007, , .		47
63	The vibro-acoustic analysis of a matching layer attached on a 1â€³ piezoelectric composite transducer. Journal of Electroceramics, 0, , 1.	2.0	0