

Himanshu Shekhar

List of Publications by Year in descending order

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Version: 2024-02-01

32
papers

462
citations

623734

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37
all docs

37
docs citations

37
times ranked

440
citing authors

#	ARTICLE	IF	CITATIONS
1	Histotripsy Bubble Cloud Contrast With Chirp-Coded Excitation in Preclinical Models. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2022, 69, 787-794.	3.0	1
2	A Fiber Bragg Grating-Based Sensor for Passive Cavitation Detection at MHz Frequencies. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2022, 69, 1682-1690.	3.0	4
3	Detection of ultrasound up to 10 MHz frequency using an FBG sensor. , 2022, , .		0
4	Pulsed Ultrasound Assisted Thermo-Therapy for Subsurface Tumor Ablation: A Numerical Investigation. Journal of Thermal Science and Engineering Applications, 2021, 13, .	1.5	4
5	Estimating the mechanical energy of histotripsy bubble clouds with high frame rate imaging. Physics in Medicine and Biology, 2021, 66, 165004.	3.0	4
6	Ultrasound-Enabled Therapeutic Delivery and Regenerative Medicine: Physical and Biological Perspectives. ACS Biomaterials Science and Engineering, 2021, 7, 4371-4387.	5.2	6
7	Antibacterial Sonodynamic Therapy: Current Status and Future Perspectives. ACS Biomaterials Science and Engineering, 2021, 7, 5326-5338.	5.2	35
8	Sonobactericide: An Emerging Treatment Strategy for Bacterial Infections. Ultrasound in Medicine and Biology, 2020, 46, 193-215.	1.5	52
9	Assessment of Chirp-Coded Excitation to Monitor Histotripsy Bubble Clouds. , 2020, , .		2
10	In vitro characterization of sonothrombolysis and echocontrast agents to treat ischemic stroke. Scientific Reports, 2019, 9, 9902.	3.3	23
11	The effect of 220kHz insonation scheme on rt-PA thrombolytic efficacy <i>in vitro</i> . Physics in Medicine and Biology, 2019, 64, 165015.	3.0	8
12	Characterization and Imaging of Lipid-Shelled Microbubbles for Ultrasound-Triggered Release of Xenon. Neurotherapeutics, 2019, 16, 878-890.	4.4	24
13	Lipid-shelled microbubbles for ultrasound-triggered release of bioactive gases to treat stroke and cardiovascular disease. , 2019, , .		1
14	Bactericidal Activity of Lipid-Shelled Nitric Oxide-Loaded Microbubbles. Frontiers in Pharmacology, 2019, 10, 1540.	3.5	10
15	An in vitro proof-of-principle study of sonobactericide. Scientific Reports, 2018, 8, 3411.	3.3	16
16	Effect of Temperature on the Size Distribution, Shell Properties, and Stability of Definity [®] . Ultrasound in Medicine and Biology, 2018, 44, 434-446.	1.5	40
17	<i>In vitro</i> thrombolytic efficacy of echogenic liposomes loaded with tissue plasminogen activator and octafluoropropane gas. Physics in Medicine and Biology, 2017, 62, 517-538.	3.0	26
18	Combining Subharmonic and Ultraharmonic Modes for Intravascular Ultrasound Imaging: A Preliminary Evaluation. Ultrasound in Medicine and Biology, 2017, 43, 2725-2732.	1.5	11

#	ARTICLE	IF	CITATIONS
19	Comparative lytic efficacy of rt-PA and ultrasound in porcine versus human clots. PLoS ONE, 2017, 12, e0177786.	2.5	10
20	Microfluidic manufacture of rt-PA -loaded echogenic liposomes. Biomedical Microdevices, 2016, 18, 48.	2.8	14
21	Contrast-Enhanced Quantitative Intravascular Elastography: The Impact of Microvasculature on Model-Based Elastography. Ultrasound in Medicine and Biology, 2016, 42, 1167-1181.	1.5	5
22	Efficacy of histotripsy combined with rt-PA in vitro. Physics in Medicine and Biology, 2016, 61, 5253-5274.	3.0	48
23	Chirp-Coded Ultraharmonic Imaging with a Modified Clinical Intravascular Ultrasound System. Ultrasonic Imaging, 2016, 38, 403-419.	2.6	12
24	Trans-Stent B-Mode Ultrasound and Passive Cavitation Imaging. Ultrasound in Medicine and Biology, 2016, 42, 518-527.	1.5	27
25	Nonlinear contrast-enhanced intravascular ultrasound imaging with a commercial catheter. Proceedings of Meetings on Acoustics, 2014, , .	0.3	1
26	The Delayed Onset of Subharmonic and Ultraharmonic Emissions from a Phospholipid-Shelled Microbubble Contrast Agent. Ultrasound in Medicine and Biology, 2014, 40, 727-738.	1.5	15
27	Modifying the size distribution of microbubble contrast agents for high-frequency subharmonic imaging. Medical Physics, 2013, 40, 082903.	3.0	16
28	The response of phospholipid-encapsulated microbubbles to chirp-coded excitation: Implications for high-frequency nonlinear imaging. Journal of the Acoustical Society of America, 2013, 133, 3145-3158.	1.1	19
29	Nonlinear response of lipid-shelled microbubbles to coded excitation: implications for noninvasive atherosclerosis imaging. , 2013, , .		2
30	Temporal evolution of subharmonic emissions from a lipid-encapsulated contrast agent. Proceedings of Meetings on Acoustics, 2013, , .	0.3	1
31	Improving the sensitivity of high-frequency subharmonic imaging with coded excitation: A feasibility study. Medical Physics, 2012, 39, 2049-2060.	3.0	22
32	High-frequency subharmonic emission with chirp-coded excitation: implications for imaging. Proceedings of SPIE, 2012, , .	0.8	1