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No	Title	Authors	Article Type	Classifications	Volume	Issue	Publication Year	URL
1	Shock wave lithotripsy and therapy	Nobuki Kudo	Special feature article	Physics & Engineering	Online first		2022	https://doi.org/10.1007/s10396-022-01202-w
2	Ultrasound and microbubble-mediated drug delivery and immunotherapy	Daiki Omata, Lisa Munakata, Kazuo Maruyama & Ryo Suzuki	Special feature article	Physics & Engineering	Online first		2022	https://doi.org/10.1007/s10396-022-01201-x
3	Displacement detection with sub-pixel accuracy and high spatial resolution using deep learning	Mariko Yamamoto, Shin Yoshizawa	Original Article	Physics & Engineering	49	1	2022	https://doi.org/10.1007/s10396-021-01162-7
4	Tongue model construction based on ultrasound images with image processing and deep learning method	Nobuhiko Mukai, Kimie Mori, Yoshiko Takei	Original Article	Physics & Engineering	49	2	2022	https://doi.org/10.1007/s10396-022-01193-8
5	Color Doppler shear wave elastography using commercial ultrasound machine with compensated transducer scanning delay	Norma Hermawan, Takuro Ishii, Yoshifumi Saijo	Original Article	Physics & Engineering	49	2	2022	https://doi.org/10.1007/s10396-022-01194-7
6	Enhancement of astaxanthin incorporation by pulsed high-intensity ultrasound in LPS-stimulated macrophages	Xiaoqi Ma, Atomu Yamaguchi, Noriaki Maeshige, Mikiko Uemura, Hikari Noguchi, Hiroyo Kondo, Hidemi Fujino	Original Article	Physics & Engineering	49	2	2022	https://doi.org/10.1007/s10396-022-01189-4
7	Shear wave speed measurement bias in a viscoelastic phantom across six ultrasound elastography systems: a comparative study with transient elastography and magnetic resonance elastography	Riwa Kishimoto, Mikio Suga, Masashi Usumura, Hiroko Iijima, Masahiro Yoshida, Hiroyuki Hachiya, Tsuyoshi Shiina, Makoto Yamakawa, Kei Konno, Takayuki Obata, Tadashi Yamaguchi	Original Article	Physics & Engineering	49	2	2022	https://doi.org/10.1007/s10396-022-01190-x
8	Promoting the effect of microbubble-enhanced ultrasound on hyperthermia in rabbit liver	Yuwen Yang, Huanqian Luo, Yang Zhao, Lu Li, Yan He, Fen Xi, Hai Jin, Ruru Gao, Qiong Luo, Jianhua Liu	Original Article	Physics & Engineering	49	2	2022	https://doi.org/10.1007/s10396-021-01187-y
9	Assessment of the frequency dependence of acoustic properties on material, composition, and scatterer size of the medium	Mai Ino, Kenji Yoshida, Shinnosuke Hirata, Kazuyo Ito, Tadashi Yamaguchi	Original Article	Physics & Engineering	49	4	2022	https://doi.org/10.1007/s10396-022-01235-1
10	The effect of attenuation inside the acoustic traps on the configuration of vertical artifacts in lung ultrasound: an experimental study with simple models	Toru Kameda, Naohisa Kamiyama, Nobuyuki Taniguchi	Original Article	Physics & Engineering	49	4	2022	https://doi.org/10.1007/s10396-022-01244-0
11	Application of low-complexity generalized coherence factor to in vivo data	Masanori Hisatsu, Shohei Mori, Mototaka Arakawa, Hiroshi Kanai	Original Article	Physics & Engineering	49	4	2022	https://doi.org/10.1007/s10396-022-01243-1
12	Evaluation of local changes in RF signal waveform and brightness caused by vessel dilatation for ascertaining reliability of elasticity estimate inside heterogeneous plaque: A preliminary study	Yuta Haji, Shohei Mori, Mototaka Arakawa, Toshio Yamagishi, Hiroshi Kanai	Original Article	Physics & Engineering	49	4	2022	https://doi.org/10.1007/s10396-022-01229-z
13	Machine learning-enabled quantitative ultrasound techniques for tissue differentiation	Hannah Thomson, Shufan Yang, Sandy Cochran	Original Article	Physics & Engineering	49	4	2022	https://doi.org/10.1007/s10396-022-01230-6
14	Contrast analysis in ultrafast ultrasound blood flow imaging of jugular vein	Masaaki Omura	Original Article	Physics & Engineering	50	2	2023	https://doi.org/10.1007/s10396-023-01289-9
15	A study on the optimal condition of ground truth area for liver tumor detection in ultrasound images using deep learning	Taisei Tosaki	Original Article	Physics & Engineering	50	2	2023	https://doi.org/10.1007/s10396-023-01301-2
16	Speed-of-sound estimation in ultrasound propagation medium by considering size of target scatterer	Shohei Mori	Original Article	Physics & Engineering	50	2	2023	https://doi.org/10.1007/s10396-023-01282-2
17	Acoustic radiation force impulse-induced lung hemorrhage: investigating the relationship with peak rarefactional pressure amplitude and mechanical index in rabbits	Noriya Takayama	Original Article	Physics & Engineering	50	2	2023	https://doi.org/10.1007/s10396-023-01285-z
18	Viability variation of T-cells under ultrasound exposure according to adhesion condition with bubbles	Naoya Kajita	Original Article	Physics & Engineering	50	2	2023	https://doi.org/10.1007/s10396-022-01277-5
19	Noninvasive imaging of rat-derived microglia and its reactivity to inflammatory molecules via acoustic impedance microscopy	Christine Li Mei Lee, Pey Shin Yap, Kiyoshi Umemura, Taichi Shintani, Kazuto Kobayashi, Naohiro Hozumi & Sachiko Yoshida	Original Article	Physics & Engineering	51	1	2023	https://doi.org/10.1007/s10396-023-01379-8
20	Estimation error in speed of sound caused by rotation of measured cross-section from short-axis plane of blood vessels: a preliminary study	Shohei Mori, Keiji Onoda, Mototaka Arakawa & Hiroshi Kanai	Original Article	Physics & Engineering	51	1	2023	https://doi.org/10.1007/s10396-023-01383-y
21	Investigation of a method to estimate the average speed of sound using phase variances of element signals for ultrasound compound imaging	Ryo Nagaoka, Masaaki Omura, Hideyuki Hasegawa	Original Article	Physics & Engineering	51	1	2023	https://doi.org/10.1007/s10396-023-01378-9
22	Modified multi-Rayleigh model-based statistical analysis of ultrasound envelope for quantification of liver steatosis and fibrosis	Yuki Ujihara, Kazuki Tamura, Shohei Mori, Dar-In Tai, Po-Hsiang Tsui, Shinnosuke Hirata, Kenji Yoshida, Hitoshi Maruyama & Tadashi Yamaguchi	Original Article	Physics & Engineering	51	1	2023	https://doi.org/10.1007/s10396-023-01354-3

| 23 | Optimizing irradiation conditions for low-intensity pulsed ultrasound to upregulate endothelial nitric oxide synthase | Daiki Ouchi, Shohei Mori, Mototaka Arakawa, Tomohiko Shindo, Hiroaki Shimokawa, Satoshi Yasuda & Hiroshi Kanai | Original Article | Physics & Engineering | 51 | 1 | 2023 | https://doi.org/10.1007/s10396-023-01382-z |