

2023・2024年JMU掲載論文

No	Title	Authors	Article Type	Classifications	Volume	Issue	Publication Year	URL
1	Principle of contrast-enhanced ultrasonography	Yoshitaka Mine, Etsuo Takada, Katsutoshi Sugimoto & Fuminori Moriyasu	Special feature article	Physics & Engineering	51	4	2024	https://doi.org/10.1007/s10396-024-01443-x
2	Contrast analysis in ultrafast ultrasound blood flow imaging of jugular vein	Masaaki Omura, Kunimasa Yagi, Ryo Nagaoka & Hideyuki Hasegawa	Original Article	Physics & Engineering	50	2	2023	https://doi.org/10.1007/s10396-023-01289-9
3	Viability variation of T-cells under ultrasound exposure according to adhesion condition with bubbles	Naoya Kajita, Yoshiki Ito, Shunya Watanabe, Yoshitaka Miyamoto, Daiki Omata, Kazuo Maruyama, Ryo Suzuki & Kohji Masuda	Original Article	Physics & Engineering	50	2	2023	https://doi.org/10.1007/s10396-022-01277-5
4	A study on the optimal condition of ground truth area for liver tumor detection in ultrasound images using deep learning	Taisei Tosaki, Makoto Yamakawa & Tsuyoshi Shiina	Original Article	Physics & Engineering	50	2	2023	https://doi.org/10.1007/s10396-023-01301-2
5	Speed-of-sound estimation in ultrasound propagation medium by considering size of target scatterer	Shohei Mori, Hiroshi Kanai & Mototaka Arakawa	Original Article	Physics & Engineering	50	2	2023	https://doi.org/10.1007/s10396-023-01282-2
6	Acoustic radiation force impulse-induced lung hemorrhage: investigating the relationship with peak rarefactional pressure amplitude and mechanical index in rabbits	Noriya Takayama, Hideki Sasanuma, Kazuma Rifu, Naotaka Nitta, Iwaki Akiyama & Nobuyuki Taniguchi	Original Article	Physics & Engineering	50	2	2023	https://doi.org/10.1007/s10396-023-01285-z
7	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
8	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
9	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
10	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
11	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
12	Artifact reduction in photoacoustic images by generating virtual dense array sensor from hemispheric sparse array sensor using deep learning	Makoto Yamakawa & Tsuyoshi Shiina	Original Article	Physics & Engineering	51	2	2024	https://doi.org/10.1007/s10396-024-01413-3
13	Facilitatory effect of low-pulse repetition frequency ultrasound on release of extracellular vesicles from cultured myotubes	Xiaoqi Ma, Atomu Yamaguchi, Noriaki Maeshige, Kento Tanida, Mikiko Uemura, Fuwen Lu, Hiroyo Kondo & Hidemi Fujino	Original Article	Physics & Engineering	51	3	2024	https://doi.org/10.1007/s10396-024-01429-9
14	Optimal treatment conditions for low-intensity pulsed ultrasound therapy for Alzheimer's disease: applications from mice to humans	Tomohiko Shindo, Kumiko Eguchi, Yuto Monma, Hiroshi Kanai, Satoshi Yasuda & Hiroaki Shimokawa	Original Article	Physics & Engineering	51	3	2024	https://doi.org/10.1007/s10396-024-01461-9
15	Examination of rapid adjustment system based on screen score obtained using continuous shear wave elastography	Marie Tabaru, Ren Koda, Hitoshi Shitara, Hirotaka Chikuda & Yoshiki Yamakoshi	Original Article	Physics & Engineering	51	3	2024	https://doi.org/10.1007/s10396-024-01439-7
16	Acoustic radiation force impulse (push pulse)-induced lung hemorrhage: investigating the effect of ultrasound contrast agent in rabbits	Noriya Takayama, Hideki Sasanuma, Kazuma Rifu, Naotaka Nitta, Iwaki Akiyama & Nobuyuki Taniguchi	Original Article	Physics & Engineering	52	1	2024	https://doi.org/10.1007/s10396-024-01510-3