

## 2021・2022年JMU掲載論文

No	Title	Authors	Article Type	Classifications	Volume	Issue	Publication Year	URL
1	Basic concept and clinical applications of quantitative ultrasound (QUS) technologies	Tadashi Yamaguchi	Special feature article	Physics & Engineering	48	4	2021	<a href="https://doi.org/10.1007/s10396-021-01139-6">https://doi.org/10.1007/s10396-021-01139-6</a>
2	A review of physical and engineering factors potentially affecting shear wave elastography	Naotaka Nitta, Makoto Yamakawa, Hiroyuki Hachiya, Tsuyoshi Shiina	Special feature article	Physics & Engineering	48	4	2021	<a href="https://doi.org/10.1007/s10396-021-01127-w">https://doi.org/10.1007/s10396-021-01127-w</a>
3	Advances in ultrasonography: image formation and quality assessment	Hideyuki Hasegawa	Special feature article	Physics & Engineering	48	4	2021	<a href="https://doi.org/10.1007/s10396-021-01140-z">https://doi.org/10.1007/s10396-021-01140-z</a>
4	Investigation of feasibility of singular value decomposition clutter filter in plane wave imaging with packet transmission sequence	Hideyuki Hasegawa, Ryo Nagaoka, Masaaki Omura, Michiya Mozumi, Kozue Saito	Original Article	Physics & Engineering	48	1	2021	<a href="https://doi.org/10.1007/s10396-020-01067-x">https://doi.org/10.1007/s10396-020-01067-x</a>
5	Evaluation method of the degree of red blood cell aggregation considering ultrasonic propagation attenuation by analyzing ultrasonic backscattering properties	Kanta Nagasawa, Akiyo Fukase, Shohei Mori, Mototaka Arakawa, Satoshi Yashiro, Yasushi Ishigaki, Hiroshi Kanai	Original Article	Physics & Engineering	48	1	2021	<a href="https://doi.org/10.1007/s10396-020-01065-z">https://doi.org/10.1007/s10396-020-01065-z</a>
6	Displacement detection with sub-pixel accuracy and high spatial resolution using deep learning	Mariko Yamamoto, Shin Yoshizawa	Original Article	Physics & Engineering	49	1	2022	<a href="https://doi.org/10.1007/s10396-021-01162-7">https://doi.org/10.1007/s10396-021-01162-7</a>
7	The feasibility of a noise elimination method using continuous wave response of therapeutic ultrasound signals for ultrasonic monitoring of high-intensity focused ultrasound treatment	Ryo Takagi, Toshikatsu Washio, Yoshihiko Koseki	Original Article	Physics & Engineering	48	2	2021	<a href="https://doi.org/10.1007/s10396-021-01083-5">https://doi.org/10.1007/s10396-021-01083-5</a>
8	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	<a href="https://doi.org/10.1007/s10396-022-01193-8">https://doi.org/10.1007/s10396-022-01193-8</a>
9	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	<a href="https://doi.org/10.1007/s10396-022-01194-7">https://doi.org/10.1007/s10396-022-01194-7</a>
10	Acoustic radiation force impulse under clinical conditions with single infusion of ultrasound contrast agent evoking arrhythmias in rabbit heart	Kazuma Rifu, Hideki Sasanuma, Noriya Takayama, Naotaka Nitta, Yukiyo Ogata, Iwaki Akiyama, Nobuyuki Taniguchi	Original Article	Physics & Engineering	48	2	2021	<a href="https://doi.org/10.1007/s10396-021-01085-3">https://doi.org/10.1007/s10396-021-01085-3</a>
11	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	<a href="https://doi.org/10.1007/s10396-022-01190-x">https://doi.org/10.1007/s10396-022-01190-x</a>
12	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	<a href="https://doi.org/10.1007/s10396-022-01189-4">https://doi.org/10.1007/s10396-022-01189-4</a>
13	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	<a href="https://doi.org/10.1007/s10396-021-01187-y">https://doi.org/10.1007/s10396-021-01187-y</a>
14	Relationship between shear elastic modulus and passive force of the human rectus femoris at multiple sites: a Thiel soft-embalmed cadaver study	Taiki Kodesho, Keigo Taniguchi, Takuya Kato, Shougo Mizoguchi, Yoshiki Yamakoshi, Kota Watanabe, Mineko Fujimiyama, Masaki Katayose	Original Article	Physics & Engineering	48	2	2021	<a href="https://doi.org/10.1007/s10396-020-01076-w">https://doi.org/10.1007/s10396-020-01076-w</a>
15	Low-complexity generalized coherence factor estimated from binarized signals in ultrasound beamforming	Masanori Hisatsu, Shohei Mori, Mototaka Arakawa, Hiroshi Kanai	Original Article	Physics & Engineering	48	3	2021	<a href="https://doi.org/10.1007/s10396-021-01089-z">https://doi.org/10.1007/s10396-021-01089-z</a>
16	Measurement of flow velocity vectors in carotid artery by plane wave imaging with repeated transmit sequence	Hideyuki Hasegawa, Michiya Mozumi, Masaaki Omura, Ryo Nagaoka, Kozue Saito	Original Article	Physics & Engineering	48	4	2021	<a href="https://doi.org/10.1007/s10396-021-01113-2">https://doi.org/10.1007/s10396-021-01113-2</a>
17	Low-intensity ultrasound inhibits melanoma cell proliferation in vitro and tumor growth in vivo	Loreto B. Feril Jr., Kazuki Yamaguchi, Yurika Ikeda-Dantsuji, Yukihiro Furusawa, Yoshiaki Tabuchi, Ichiro Takasaki, Ryohei Ogawa, Zheng-Guo Cui, Katsuro Tachibana	Original Article	Physics & Engineering	48	4	2021	<a href="https://doi.org/10.1007/s10396-021-01131-0">https://doi.org/10.1007/s10396-021-01131-0</a>
18	Machine learning-enabled quantitative ultrasound techniques for tissue differentiation	Hannah Thomson, Shufan Yang, Sandy Cochran	Original Article	Physics & Engineering	49	4	2022	<a href="https://doi.org/10.1007/s10396-022-01230-6">https://doi.org/10.1007/s10396-022-01230-6</a>
19	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	<a href="https://doi.org/10.1007/s10396-022-01244-0">https://doi.org/10.1007/s10396-022-01244-0</a>
20	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	<a href="https://doi.org/10.1007/s10396-022-01235-1">https://doi.org/10.1007/s10396-022-01235-1</a>
21	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	<a href="https://doi.org/10.1007/s10396-022-01243-1">https://doi.org/10.1007/s10396-022-01243-1</a>
22	Inhibitory effects of ultrasound irradiation on Staphylococcus epidermidis biofilm	Harumi Koibuchi, Yasutomu Fujii, Yusuke Sato'o, Takashi Mochizuki, Toshiyuki Yamada, Longzhu Cui, Nobuyuki Taniguchi	Original Article	Physics & Engineering	48	4	2021	<a href="https://doi.org/10.1007/s10396-021-01120-3">https://doi.org/10.1007/s10396-021-01120-3</a>

23	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	<a href="https://doi.org/10.1007/s10396-022-01229-z">https://doi.org/10.1007/s10396-022-01229-z</a>
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