Katsunori Mizuno

List of Publications by Year
in descending order

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43	697	623734	580821
papers	citations	14 h-index	25 g-index

46	46	46	284
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Costâ€effective seafloor habitat mapping using a portable speedy sea scanner and deepâ€learningâ€based segmentation: A sea trial at Pujada Bay, Philippines. Methods in Ecology and Evolution, 2022, 13, 339-345.	5.2	6
2	Ultrasonic Assessment of Cancellous Bone Based on the Two-Wave Phenomenon. Advances in Experimental Medicine and Biology, 2022, 1364, 119-143.	1.6	0
3	New method of mussel survey by using high-resolution acoustic video camera-ARIS and deep learning. , 2022, , .		1
4	Development of an Efficient Coral-Coverage Estimation Method Using a Towed Optical Camera Array System [Speedy Sea Scanner (SSS)] and Deep-Learning-Based Segmentation: A Sea Trial at the Kujuku-Shima Islands. IEEE Journal of Oceanic Engineering, 2020, 45, 1386-1395.	3.8	10
5	An efficient coral survey method based on a large-scale 3-D structure model obtained by Speedy Sea Scanner and U-Net segmentation. Scientific Reports, 2020, 10, 12416.	3.3	11
6	Numerical and Experimental Study of Wave Propagation in Water-Saturated Granular Media Using Effective Method Theories and a Full-Wave Numerical Simulation. IEEE Journal of Oceanic Engineering, 2020, 45, 772-785.	3.8	6
7	Storm surge risk assessment for the insurance system: A case study in Tokyo Bay, Japan. Ocean and Coastal Management, 2020, 189, 105147.	4.4	11
8	Integration of sonar and optical camera images using deep neural network for fish monitoring. Aquacultural Engineering, 2019, 86, 102000.	3.1	40
9	Numerical and experimental study on wave propagation in granular media using a spectral-element method. , 2019, , .		0
10	Native gold and gold-rich sulfide deposits in a submarine basaltic caldera, Higashi-Aogashima hydrothermal field, Izu-Ogasawara frontal arc, Japan. Mineralium Deposita, 2019, 54, 117-132.	4.1	5
11	Development of Coral-Coverage Estimation Method Using Deep Learning and Sea Trial: at Kujuku-Shima Islands. , 2018, , .		1
12	Application of wavelet shrinkage to acoustic imaging of buried asari clams using high-frequency ultrasound. Japanese Journal of Applied Physics, 2018, 57, 07LG08.	1.5	5
13	Validation of a high-resolution acoustic imaging sonar method by estimating the biomass of submerged plants in shallow water. Ecological Informatics, 2018, 46, 179-184.	5.2	7
14	A simple and efficient method for making a high-resolution seagrass map and quantification of dugong feeding trail distribution: A field test at Mayo Bay, Philippines. Ecological Informatics, 2017, 38, 89-94.	5.2	21
15	Effect of anisotropy on stress-induced electrical potentials in bovine bone using ultrasound irradiation. Applied Physics Letters, 2017, 110, .	3.3	10
16	Development of the Parametric Sub-Bottom Profiler for Autonomous Underwater Vehicles and the Application of Continuous Wavelet Transform for Sediment Layer Detections. The Journal of the Marine Acoustics Society of Japan, 2016, 43, 233-248.	0.2	8
17	Seafloor Hydrothermal Deposits Exploration by Bathymetry and Backscattering Data Using Multibeam Echo-Sounder in the Higashi-Aogashima Caldera. The Journal of the Marine Acoustics Society of Japan, 2016, 43, 208-218.	0.2	2
18	Detection of shellfish in the sediment by 1-MHz ultrasound: Focusing on weak scatter and incident angle. , 2016, , .		1

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19	Automatic non-destructive three-dimensional acoustic coring system for in situ detection of aquatic plant root under the water bottom. Case Studies in Nondestructive Testing and Evaluation, 2016, 5, 1-8.	1.7	9
20	Assessing the biological process of Hydrilla verticillata predation in a eutrophic pond using high-resolution acoustic imaging sonar. Limnology, 2016, 17, 13-21.	1.5	7
21	Conventional, Bayesian, and Modified Prony's methods for characterizing fast and slow waves in equine cancellous bone. Journal of the Acoustical Society of America, 2015, 138, 594-604.	1.1	8
22	Fast characterization of two ultrasound longitudinal waves in cancellous bone using an adaptive beamforming technique. Journal of the Acoustical Society of America, 2015, 137, 1683-1692.	1.1	12
23	Effects of microstructure and water on the electrical potentials in bone induced by ultrasound irradiation. Applied Physics Letters, 2015, 106, .	3.3	16
24	Three dimensional mapping of aquatic plants at shallow lakes using 1.8 MHz high-resolution acoustic imaging sonar and image processing technology. , 2014, , .		8
25	Fast and slow wave detection in bovine cancellous bone in vitro using bandlimited deconvolution and Prony's method. Journal of the Acoustical Society of America, 2014, 136, 2015-2024.	1.1	13
26	Two-wave behavior under various conditions of transition area from cancellous bone to cortical bone. Ultrasonics, 2014, 54, 1245-1250.	3.9	15
27	Electrical potentials in bone induced by ultrasound irradiation in the megahertz range. Applied Physics Letters, 2013, 103, .	3.3	23
28	Quantification of whooper swan damage to lotus habitats using high-resolution acoustic imaging sonar in Lake Izunuma, Japan. Aquatic Botany, 2013, 110, 48-54.	1.6	11
29	An experimental study on the ultrasonic wave propagation in cancellous bone: Waveform changes during propagation. Journal of the Acoustical Society of America, 2013, 134, 4775-4781.	1.1	15
30	3D-view Generation and Species Classification of Aquatic Plants Using Acoustic Images. The Journal of the Marine Acoustics Society of Japan, 2013, 40, 14-26.	0.2	14
31	Two-wave propagation imaging to evaluate the structure of cancellous bone. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2012, 59, 1160-1166.	3.0	14
32	Characterization of the fast wave in cancellous bone using the Bayesian probability theory approach. , 2011, , .		1
33	Propagation of two longitudinal waves in a cancellous bone with the closed pore boundary. Journal of the Acoustical Society of America, 2011, 130, EL122-EL127.	1.1	28
34	Determining attenuation properties of interfering fast and slow ultrasonic waves in cancellous bone. Journal of the Acoustical Society of America, 2011, 130, 2233-2240.	1.1	36
35	Effect of Boundary Condition on the Two-Wave Propagation in Cancellous Bone. Japanese Journal of Applied Physics, 2011, 50, 07HF19.	1.5	12
36	Effect of Boundary Condition on the Two-Wave Propagation in Cancellous Bone. Japanese Journal of Applied Physics, 2011, 50, 07HF19.	1.5	8

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37	Influence of cancellous bone microstructure on two ultrasonic wave propagations in bovine femur: An in vitro study. Journal of the Acoustical Society of America, 2010, 128, 3181-3189.	1.1	37
38	Wavelet Transform Analysis of Ultrasonic Wave Propagation in Cancellous Bone. Japanese Journal of Applied Physics, 2010, 49, 07HF28.	1.5	11
39	Propagation of two longitudinal waves in human cancellous bone: An in vitro study. Journal of the Acoustical Society of America, 2009, 125, 3460-3466.	1.1	79
40	Propagation of fast and slow waves in cancellous bone: Comparative study of simulation and experiment. Acoustical Science and Technology, 2009, 30, 257-264.	0.5	28
41	Numerical and experimental study on the wave attenuation in bone â€“ FDTD simulation of ultrasound propagation in cancellous bone. Ultrasonics, 2008, 48, 607-612.	3.9	75
42	Effects of structural anisotropy of cancellous bone on speed of ultrasonic fast waves in the bovine femur. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2008, 55, 1480-1487.	3.0	69
43	P5A-2 An Experimental Study on the Ultrasonic Wave Propagation and Structural Anisotropy in Bovine Cancellous Bone. Proceedings IEEE Ultrasonics Symposium, 2007, , .	0.0	0