

Tadashi Ebihara

List of Publications by Year in descending order

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83
papers

481
citations

840776

11
h-index

888059

17
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83
all docs

83
docs citations

83
times ranked

200
citing authors

#	ARTICLE	IF	CITATIONS
1	Underwater Acoustic Communication With an Orthogonal Signal Division Multiplexing Scheme in Doubly Spread Channels. IEEE Journal of Oceanic Engineering, 2014, 39, 47-58.	3.8	64
2	Wireless power and data transfer system for station-based autonomous underwater vehicles. , 2015, , .		26
3	Visualization of Mode Conversion of Lamb-Type Waves in Glass Plates Using Pulsed Light Source. Japanese Journal of Applied Physics, 2009, 48, 07GC06.	1.5	19
4	Basic Study of Orthogonal Signal Division Multiplexing for Underwater Acoustic Communication: A Comparative Study. Japanese Journal of Applied Physics, 2010, 49, 07HG09.	1.5	19
5	Underwater Acoustic Communication Using Multiple-Input Multiple-Output Doppler-Resilient Orthogonal Signal Division Multiplexing. IEEE Journal of Oceanic Engineering, 2020, 45, 1594-1610.	3.8	16
6	Improvement of Power Efficiency for Underwater Acoustic Communication Using Orthogonal Signal Division Multiplexing over Multiple Transducers. Japanese Journal of Applied Physics, 2013, 52, 07HG04.	1.5	15
7	Defect detection and size estimation in billet from profile of time-of-flight using ultrasonic transmission method with linear scanning. Japanese Journal of Applied Physics, 2015, 54, 07HC11.	1.5	15
8	Study of Doppler Shift Correction for Underwater Acoustic Communication Using Orthogonal Signal Division Multiplexing. Japanese Journal of Applied Physics, 2011, 50, 07HG06.	1.5	13
9	Noise reduction in ultrasonic computerized tomography by preprocessing for projection data. Japanese Journal of Applied Physics, 2015, 54, 07HC12.	1.5	13
10	Experimental Study of Doppler Effect for Underwater Acoustic Communication Using Orthogonal Signal Division Multiplexing. Japanese Journal of Applied Physics, 2012, 51, 07GG04.	1.5	12
11	Defect visualization in billets by time reversal of scattered waves from defects. Japanese Journal of Applied Physics, 2015, 54, 07HC10.	1.5	12
12	Acoustical positioning method using transponders with adaptive signal level normalizer. Japanese Journal of Applied Physics, 2017, 56, 07JC07.	1.5	12
13	Direction of Arrival Estimation Based on Delayed-Sum Method in Reverberation Environment. Japanese Journal of Applied Physics, 2012, 51, 07GB09.	1.5	11
14	Software-based modem for near field acoustic communication. , 2012, , .		11
15	Underwater acoustic communication using orthogonal signal division multiplexing scheme with time diversity. Japanese Journal of Applied Physics, 2016, 55, 037301.	1.5	11
16	Robust Indoor Localization in a Reverberant Environment Using Microphone Pairs and Asynchronous Acoustic Beacons. IEEE Access, 2019, 7, 123116-123127.	4.2	11
17	High-Speed Visible Light Communication Using Combination of Low-Speed Image Sensor and Polygon Mirror. IEICE Transactions on Fundamentals of Electronics, Communications and Computer Sciences, 2016, E99.A, 263-270.	0.3	10
18	Introduction of measurement techniques in ultrasonic electronics: Basic principles and recent trends. Japanese Journal of Applied Physics, 2016, 55, 07KA02.	1.5	10

#	ARTICLE	IF	CITATIONS
19	Underwater acoustic communication using Doppler-resilient orthogonal signal division multiplexing in a harbor environment. <i>Physical Communication</i> , 2018, 27, 24-35.	2.1	10
20	Improvement of communication quality using compressed sensing in underwater acoustic communication system with orthogonal signal division multiplexing. <i>Japanese Journal of Applied Physics</i> , 2020, 59, SKKF04.	1.5	9
21	Experimental investigation of the effect of signal reflection and coverage area on indoor acoustical positioning using transponders with adaptive signal level normalizer. <i>Japanese Journal of Applied Physics</i> , 2018, 57, 07LC03.	1.5	8
22	Effect of mode conversion on defect detection and size estimation in billet from time-of-flight profile by ultrasonic transmission method. <i>Japanese Journal of Applied Physics</i> , 2016, 55, 07KC06.	1.5	8
23	Optimal Modulation Technique for Underwater Visible Light Communication Using Rolling-Shutter Sensor. <i>IEEE Access</i> , 2021, 9, 146422-146436.	4.2	8
24	Performance evaluation of high-speed visible light communication combining low-speed image sensor and polygon mirror in an outdoor environment. , 2016, , .		7
25	Field testing of underwater acoustic communication using Doppler-resilient orthogonal signal division multiplexing in coastal area of Suruga Bay. <i>Japanese Journal of Applied Physics</i> , 2019, 58, SGGF07.	1.5	7
26	Study of Doppler Shift Correction for Underwater Acoustic Communication Using Orthogonal Signal Division Multiplexing. <i>Japanese Journal of Applied Physics</i> , 2011, 50, 07HG06.	1.5	7
27	Underwater acoustic positioning in multipath environment using time-of-flight signal group and database matching. <i>Japanese Journal of Applied Physics</i> , 2022, 61, SG1075.	1.5	7
28	Chip-Interleaved Multiple Access for Underwater Acoustic Communication and Its Performance Evaluation in Propagation Simulation. <i>Japanese Journal of Applied Physics</i> , 2009, 48, 114505.	1.5	6
29	Experiment of Underwater Acoustic Communication with an Orthogonal Signal Division Multiplexing Scheme in a Harbor. <i>The Journal of the Marine Acoustics Society of Japan</i> , 2014, 41, 157-168.	0.2	6
30	Experimental Study of Doppler Effect for Underwater Acoustic Communication Using Orthogonal Signal Division Multiplexing. <i>Japanese Journal of Applied Physics</i> , 2012, 51, 07GG04.	1.5	6
31	Underwater acoustic communication using Doppler-resilient orthogonal signal division multiplexing. , 2014, , .		4
32	Underwater acoustic communication using Doppler-resilient orthogonal signal division multiplexing with time diversity. , 2017, , .		4
33	Numerical analysis of piezoelectric probe for beam forming of longitudinal and shear waves. <i>Japanese Journal of Applied Physics</i> , 2017, 56, 036601.	1.5	4
34	Design of secure near-field communication for smartphones using sound and vibration. , 2017, , .		4
35	Robust Localization of Mobile Robot in Reverberant Rooms Using Acoustic Beacons with Iterative Bayesian Filtering. , 2018, , .		4
36	Towards the Management of Whiteflies (Hemiptera: Aleyrodidae) in Greenhouse by Using Acoustic and Vibrational Methods. <i>Japanese Journal of Applied Entomology and Zoology</i> , 2019, 63, 97-107.	0.1	4

#	ARTICLE	IF	CITATIONS
37	Design of a wide-angle compound eye acoustic lens system suitable for multi-user underwater acoustic communication. Japanese Journal of Applied Physics, 2021, 60, SDDF01.	1.5	4
38	Mobile underwater acoustic communication with orthogonal signal division multiplexing under inter-carrier interference larger than a guardband. Japanese Journal of Applied Physics, 2021, 60, 107003.	1.5	4
39	Digital acoustic communication in air using parametric loudspeaker. IEICE Communications Express, 2020, 9, 136-140.	0.4	4
40	Ultrasonic inspection method for billet using time-of-flight deviation of bottom echo and its performance evaluation in numerical simulations. Japanese Journal of Applied Physics, 2017, 56, 07JC09.	1.5	4
41	Locality of Area Coverage on Digital Acoustic Communication in Air using Differential Phase Shift Keying. Japanese Journal of Applied Physics, 2009, 48, 07GB07.	1.5	3
42	Experimental Study on Measurement of Acoustic Cavitation Bubbles in Spatial Frequency Domain Using Optical Spectrometer. Japanese Journal of Applied Physics, 2011, 50, 07HE05.	1.5	3
43	High-speed visible light communication with image sensor of the low frame rate and polygon mirror. , 2014, , .		3
44	Design of efficient and compact visible light communication using low-speed image sensor and MEMS mirror. , 2017, , .		3
45	ALiSE: Through the mirrored space, and what user interacts with avatars naturally. , 2021, , .		3
46	EYEDi: Graphical Authentication Scheme of Estimating Your Encodable Distorted Images to Prevent Screenshot Attacks. IEEE Access, 2022, 10, 2256-2268.	4.2	3
47	Underwater acoustic communication using orthogonal signal division multiplexing with windowing. Japanese Journal of Applied Physics, 2022, 61, SG1033.	1.5	3
48	Estimation of Sound Velocity Distribution Using Sectional Near-Field Acoustical Holography and Global Search. Japanese Journal of Applied Physics, 2010, 49, 07HC06.	1.5	2
49	Evaluation of Acousto-Optic Effect on Size Distribution Measurement of Oscillating Cavitation Bubbles Using Optical Spectrometer. Japanese Journal of Applied Physics, 2012, 51, 07GD04.	1.5	2
50	Simulation of Internal Crack Detection in Shape-Distorted Cast Billets Using Time-of-Flight Measurements of Longitudinal Ultrasonic Waves. Materials Transactions, 2012, 53, 337-341.	1.2	2
51	High-performance nondestructive inspection method for high-attenuation billet: Ultrasonic computerized tomography using time-of-flight. , 2014, , .		2
52	Effect of Movement on Positioning Accuracy in a Transponder-based Acoustical Positioning. Journal of Physics: Conference Series, 2018, 1075, 012025.	0.4	2
53	Estimation of Distance to Wall Surface using Omnidirectional Speaker. , 2019, , .		2
54	How Much is the Noise Level be Reduced? â€œ Speech Recognition Threshold in Noise Environments Using aâ€œParametric Speaker â€œ. Lecture Notes in Computer Science, 2021, , 542-550.	1.3	2

#	ARTICLE	IF	CITATIONS
55	Design of a hemispherical compound eye lens consisting of a concave meniscus for underwater acoustic communication. Japanese Journal of Applied Physics, 2022, 61, SG1017.	1.5	2
56	Phase Shift Keying Acoustic Communication in Air with Impulse Response. Japanese Journal of Applied Physics, 2009, 48, 07GB06.	1.5	1
57	Study on increasing efficiency of radio communication using tunable antenna and software-defined radio. , 2014, , .		1
58	Mobile robotic access point for transitional optimization of wireless access point positioning. , 2014, , .		1
59	Design of piezoelectric probe for measurement of longitudinal and shear components of elastic wave. Japanese Journal of Applied Physics, 2017, 56, 07JD14.	1.5	1
60	Defect Detection in Billet Using Plane-Wave and Time-of-Flight Deviation with Transmission Method. , 2018, , .		1
61	Underwater Acoustic Communication Using Multiple-Input Multiple-Output Doppler-Resilient Orthogonal Signal Division Multiplexing. , 2018, , .		1
62	Design of Compact and Vibration Resistant Receiver for Visible Light Communication Using MEMS mirror. , 2018, , .		1
63	Design and performance evaluation of acoustic vehicle-to-pedestrian communication system. Japanese Journal of Applied Physics, 2019, 58, SGGB11.	1.5	1
64	Visible Light Communication System Using Low-speed Image Sensor and Two-dimensional Optical Scanner. , 2019, , .		1
65	An efficient subcarrier arrangement for airborne OFDM communication using parametric loudspeaker. Japanese Journal of Applied Physics, 2021, 60, SDDB07.	1.5	1
66	Evaluation of Acousto-Optic Effect on Size Distribution Measurement of Oscillating Cavitation Bubbles Using Optical Spectrometer. Japanese Journal of Applied Physics, 2012, 51, 07GD04.	1.5	1
67	Biotype identification of Bemisia tabaci by acoustical method. Journal of Agricultural Informatics, 2017, 8, .	0.3	1
68	Secure and Fast Near-Field Acoustic Communication Using Acoustic and Vibrational Signals. IEICE Transactions on Fundamentals of Electronics, Communications and Computer Sciences, 2018, E101.A, 1841-1848.	0.3	1
69	Transmission detection of internal defect in billet using shear ultrasonic waves. Japanese Journal of Applied Physics, 0, , .	1.5	1
70	Rolling-shutter-sensor-based visible light communication for multi-user long-range communication and positioning. IEICE Communications Express, 2022, 11, 202-207.	0.4	1
71	Increasing of Wireless Frequency Usage Efficiency Using Orthogonal Signal Division Multiplexing with Multiple Antennas. , 2007, , .		0
72	Determination of sound velocity distribution using sectional near-field acoustical holography and simulated annealing. , 2009, , .		0

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73	Acoustical sensing network unit for temperature distribution measurement on ground level. Journal of Japan Society of Civil Engineers Ser A2 (Applied Mechanics (AM)), 2011, 67, 1_31-1_38.	0.1	0
74	Hydrophone array-assisted doppler spread compensation for underwater acoustic communication. , 2013, , .		0
75	Visualization of defects in high-attenuation billet using back propagation of scattered waves. , 2015, , .		0
76	Adaptive Impedance Matching of Piezoelectric Transducer for Underwater Acoustic Communication System. The Journal of the Marine Acoustics Society of Japan, 2016, 43, 134-144.	0.2	0
77	Detection of individual vehicles approaching for pedestrians using digital modulated warning sounds. , 2017, , .		0
78	Acoustic Beacon for Smartphones to Support Optimum Wi-Fi Spot Connection. , 2018, , .		0
79	Sound Source Visualization System in Reflective Environment Using Time-Reversal Wave. , 2019, , .		0
80	7D26 Ultrasonic Monitoring for Coagulation Process of Milk Proteins of Lactic Acid Fermentation. The Proceedings of the Bioengineering Conference Annual Meeting of BED/J SME, 2012, 2012.24, _7D26-1_-_7D26-2_.	0.0	0
81	Measurement of Moisture Content and Detection of Fungi on Brown Rice using Electrical Impedance Spectroscopy. IEEJ Transactions on Fundamentals and Materials, 2013, 133, 630-635.	0.2	0
82	Elastic Property Estimation of Surface Layer of Layered Structure by Measuring Love Wave Propagation Characteristics using Laser Doppler Vibrometer. International Journal of the Society of Materials Engineering for Resources, 2018, 23, 109-116.	0.1	0
83	2D-3D Transformation of Pointing Objects Based on Skeletal Body Surface Models for Remote Collaboration. , 2021, , .		0