Yasuhiko Jimbo

List of Publications by Year in descending order

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YASUHIKO LIMBO

#	Article	IF	CITATIONS
1	Observing Cell Assemblies From Spike Train Recordings Based on the Biological Basis of Synaptic Connectivity. IEEE Transactions on Biomedical Engineering, 2022, 69, 1524-1532.	2.5	1
2	Recording Saltatory Conduction Along Sensory Axons Using a High-Density Microelectrode Array. Frontiers in Neuroscience, 2022, 16, 854637.	1.4	9
3	Coupling of in vitro Neocortical-Hippocampal Coculture Bursts Induces Different Spike Rhythms in Individual Networks. Frontiers in Neuroscience, 2022, 16, .	1.4	4
4	Analysis of echocardiographic video by dynamic mode decomposition. Electronics and Communications in Japan, 2021, 104, 65-73.	0.3	1
5	Phase-reduction for synchronization of oscillating flow by perturbation on surrounding structure. Journal of Fluid Mechanics, 2021, 911, .	1.4	6
6	Dependence of Neuronal Network Structure on Event-Related Desynchronization Caused by Light Stimulation. IEEJ Transactions on Electronics, Information and Systems, 2021, 141, 602-606.	0.1	0
7	Distinct effects of heterogeneity and noise on gamma oscillation in a model of neuronal network with different reversal potential. Scientific Reports, 2021, 11, 12960.	1.6	3
8	Modulation of dynamics in a pre-existing hippocampal network by neural stem cells on a microelectrode array. Journal of Neural Engineering, 2021, 18, 0460e2.	1.8	5
9	Initiation and termination of reentry-like activity in rat cardiomyocytes cultured in a microelectrode array. Biochemical and Biophysical Research Communications, 2021, 576, 117-122.	1.0	1
10	Microfabricated Device to Record Axonal Conduction under Pharmacological Treatment for Functional Evaluation of Axon Ion Channel. IEEE Transactions on Biomedical Engineering, 2021, 68, 1-1.	2.5	0
11	Distribution Analysis of Axonal Conduction Delay in <i>In vitro</i> Reconstructed Sensory Fiber. IEEJ Transactions on Electronics, Information and Systems, 2021, 141, 1331-1339.	0.1	0
12	Estimation of brain response to multimodal stimuli by index of spatiotemporal locality by magnetoencephalography. Electronics and Communications in Japan, 2020, 103, 63-70.	0.3	0
13	Computational Study of Desynchronization of Fastâ€Spiking Interneurons at Macroscopic Gamma Oscillations. IEEJ Transactions on Electrical and Electronic Engineering, 2020, 15, 1197-1204.	0.8	1
14	Evaluating Propagation Pattern During Reentry-like Activity of Cultured Cardiomyocytes. IEEJ Transactions on Electronics, Information and Systems, 2020, 140, 730-736.	0.1	1
15	Study of Subject's Biological Information and Probe Operation Apply to Automate and Semi-automate Echocardiography. IEEJ Transactions on Electronics, Information and Systems, 2020, 140, 747-753.	0.1	1
16	Estimation of Brain Response to Multimodal Stimuli by Index of Spatiotemporal Locality by Magnetoencephalography. IEEJ Transactions on Electronics, Information and Systems, 2020, 140, 711-717.	0.1	0
17	Analysis of Echocardiographic Video by Dynamic Mode Decomposition. IEEJ Transactions on Electronics, Information and Systems, 2020, 140, 754-761.	0.1	0
18	Functional Scaffolding for Brain Implants: Engineered Neuronal Network by Microfabrication and iPSC Technology. Frontiers in Neuroscience, 2019, 13, 890.	1.4	11

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#	Article	IF	CITATIONS
19	Long-Term Developmental Process of the Human Cortex Revealed In Vitro by Axon-Targeted Recording Using a Microtunnel-Augmented Microelectrode Array. IEEE Transactions on Biomedical Engineering, 2019, 66, 2538-2545.	2.5	17
20	Suppression of Macroscopic Oscillations in Mixed Populations of Active and Inactive Oscillators Coupled through Lattice Laplacian. Journal of the Physical Society of Japan, 2019, 88, 054004.	0.7	2
21	Mathematical analysis of the signal propagation characteristics of neuronal networks. Electronics and Communications in Japan, 2019, 102, 27-34.	0.3	0
22	Change in Evoked Response of Mature Neuronal Network to Spatial Pattern Stimulation by Immature Neurons. , 2019, 2019, 2141-2144.		0
23	Evaluation of Conduction Properties of Sensory Axons with High-Density Microelectrode Array. , 2019, , .		0
24	Microdevice for Evaluating Ion Channel Expression by Axon-Targeted Recording to Cultured Neurons [*] . , 2019, 2019, 1044-1047.		1
25	Analysis of reservoir computing focusing on the spectrum of bistable delayed dynamical systems. Electronics and Communications in Japan, 2019, 102, 15-20.	0.3	0
26	Mathematical Analysis about Signal Propagation Characteristics of Neuronal Networks. IEEJ Transactions on Electronics, Information and Systems, 2019, 139, 154-160.	0.1	0
27	Low Delay Connection-strength Estimation of Cultured Neuronal Networks Considering Spike-timing-Dependent Plasticity Rule. IEEJ Transactions on Electronics, Information and Systems, 2019, 139, 596-602.	0.1	1
28	Amyloid Beta Oligomer-induced Changes in Spontaneous Activity of Neuronal Networks. IEEJ Transactions on Electronics, Information and Systems, 2019, 139, 638-639.	0.1	0
29	The Effect of Immature Neurons on Spatial Pattern Separation in Hippocampal Cultured Network. IEEJ Transactions on Electronics, Information and Systems, 2019, 139, 814-815.	0.1	0
30	Exploring a Method for Inter-module Time Delay Training in a Semi-separated Dissociated Neuronal Network. IEEJ Transactions on Electronics, Information and Systems, 2019, 139, 816-817.	0.1	0
31	Optimization of Selecting using Brain Computer Interface in Mixed-reality. IEEJ Transactions on Electronics, Information and Systems, 2019, 139, 1153-1158.	0.1	0
32	Relationship between the mechanisms of gamma rhythm generation and the magnitude of the macroscopic phase response function in a population of excitatory and inhibitory modified quadratic integrate-and-fire neurons. Physical Review E, 2018, 97, 012209.	0.8	16
33	Synchronous firing patterns of induced pluripotent stem cell-derived cortical neurons depend on the network structure consisting of excitatory and inhibitory neurons. Biochemical and Biophysical Research Communications, 2018, 501, 152-157.	1.0	21
34	Evaluation of heuristic reductions of a model for the segmentation clock in zebrafish. IEEJ Transactions on Electrical and Electronic Engineering, 2018, 13, 271-279.	0.8	1
35	Spike-contrast: A novel time scale independent and multivariate measure of spike train synchrony. Journal of Neuroscience Methods, 2018, 293, 136-143.	1.3	8
36	Spontaneous Activity and Evoked response change to 100ms temporal stimulation in Dissociated Neuronal Networks. , 2018, , .		0

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37	Microtunnel-Based Recording for Evaluating Axon Conduction Change after Chemical Treatment. , 2018, , .		0
38	Response of Cultured Neuronal Network Activity After High-Intensity Power Frequency Magnetic Field Exposure. Frontiers in Physiology, 2018, 9, 189.	1.3	12
39	A Quantitative Comparison of Hemoglobin Concentration and BOLD Signal using Time-Resolved Near-Infrared Spectroscopy. IEEJ Transactions on Electronics, Information and Systems, 2018, 138, 790-798.	0.1	0
40	Response of Alpha Wave in Visual Cortex with Quantitative Light Stimulus. IEEJ Transactions on Electronics, Information and Systems, 2018, 138, 822-827.	0.1	1
41	Analysis of Reservoir Computing Focusing on the Spectrum of Bistable Delayed Dynamical Systems. IEEJ Transactions on Electronics, Information and Systems, 2018, 138, 1054-1059.	0.1	0
42	Evaluating Responses of Circulatory Systems, Sweating and Pupil Diameter to Postural Change. IEEJ Transactions on Electronics, Information and Systems, 2018, 138, 1141-1147.	0.1	0
43	Development and Calibration of Reassembled Ultrasonic Diagnosis Robot. IEEJ Transactions on Electronics, Information and Systems, 2018, 138, 1133-1140.	0.1	0
44	Deriving theoretical phase locking values of a coupled cortico-thalamic neural mass model using center manifold reduction. Journal of Computational Neuroscience, 2017, 42, 231-243.	0.6	1
45	A co-culture microtunnel technique demonstrating a significant contribution of unmyelinated Schwann cells to the acceleration of axonal conduction in Schwann cell-regulated peripheral nerve development. Integrative Biology (United Kingdom), 2017, 9, 678-686.	0.6	22
46	Temporal relation between neural activity and neurite pruning on a numerical model and a microchannel device with micro electrode array. Biochemical and Biophysical Research Communications, 2017, 486, 539-544.	1.0	8
47	Neurogenesis Enhances Response Specificity to Spatial Pattern Stimulation in Hippocampal Cultures. IEEE Transactions on Biomedical Engineering, 2017, 64, 2555-2561.	2.5	6
48	Functional innervation of human induced pluripotent stem cell-derived cardiomyocytes by co-culture with sympathetic neurons developed using a microtunnel technique. Biochemical and Biophysical Research Communications, 2017, 494, 138-143.	1.0	20
49	Improvement in Pattern Separation by Regulating Neurogenesis in Hippocampal Culture. Electronics and Communications in Japan, 2017, 100, 3-12.	0.3	1
50	Estimating the parameters of neural mass models including time delay and nonlinearity using a particle filter: a preliminary study toward modelâ&based <scp>EEG</scp> analysis. IEEJ Transactions on Electrical and Electronic Engineering, 2017, 12, 899-906.	0.8	3
51	Non-conductive and miniature fiber-optic imaging system for real-time detection of neuronal activity in time-varying electromagnetic fields. Biosensors and Bioelectronics, 2017, 87, 786-793.	5.3	7
52	Microtunnel-electrode device for elucidating axon features: Toward pharmacological manipulation of individual axons. , 2017, , .		0
53	Cell-cycle-dependent Ca ²⁺ transients in human induced pluripotent stem cells revealed by a simultaneous imaging of cell nuclei and intracellular Ca ²⁺ level. Integrative Biology (United Kingdom), 2016, 8, 985-990.	0.6	1
54	Experimental evaluation of activity-dependent changes in axonal conduction delay using a microtunnel device. Nonlinear Theory and Its Applications IEICE, 2016, 7, 76-85.	0.4	4

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55	Linking Neuromodulated Spike-Timing Dependent Plasticity with the Free-Energy Principle. Neural Computation, 2016, 28, 1859-1888.	1.3	8
56	Evaluation of Cardiovascular Response to Scent Stimulation for Biofeedback Application. Electronics and Communications in Japan, 2016, 99, 21-28.	0.3	0
57	Microcasting with agarose gel via degassed polydimethylsiloxane molds for repellency-guided cell patterning. RSC Advances, 2016, 6, 54754-54762.	1.7	36
58	A device for co-culturing autonomic neurons and cardiomyocytes using micro-fabrication techniques. Integrative Biology (United Kingdom), 2016, 8, 341-348.	0.6	12
59	Basic Research for Development of a Multimodal AR-BCI. IEEJ Transactions on Electronics, Information and Systems, 2016, 136, 1291-1297.	0.1	1
60	Migration Guidance of Human iPSC-derived Neurons by a Two-dimensional Patterning. IEEJ Transactions on Electronics, Information and Systems, 2016, 136, 1268-1276.	0.1	0
61	Cultured Cortical Neurons Can Perform Blind Source Separation According to the Free-Energy Principle. PLoS Computational Biology, 2015, 11, e1004643.	1.5	44
62	Microfabricated multi-electrode device for detecting oligodendrocyte-regulated changes in axonal conduction velocity. , 2015, 2015, 7127-30.		0
63	Modulation of neuronal network activity using magnetic nanoparticle-based astrocytic network integration. Biomaterials Science, 2015, 3, 1228-1235.	2.6	4
64	Signal transfer within a cultured asymmetric cortical neuron circuit. Journal of Neural Engineering, 2015, 12, 066023.	1.8	9
65	Recording axonal conduction to evaluate the integration of pluripotent cell-derived neurons into a neuronal network. Biomedical Microdevices, 2015, 17, 94.	1.4	7
66	Axonal conduction slowing induced by spontaneous bursting activity in cortical neurons cultured in a microtunnel device. Integrative Biology (United Kingdom), 2015, 7, 64-72.	0.6	50
67	Co-culture of Parasympathetic Neurons and Cardiomyocyte. IEEJ Transactions on Electronics, Information and Systems, 2015, 135, 813-818.	0.1	1
68	Derivation of Experimental Phase Response Curves of a Delay-induced Oscillation Composed with an Electrical Circuit. IEEJ Transactions on Electronics, Information and Systems, 2015, 135, 819-825.	0.1	0
69	Improvement in Pattern Separation by Regulating Neurogenesis in Hippocampal Culture. IEEJ Transactions on Electronics, Information and Systems, 2015, 135, 805-812.	0.1	0
70	Induced Current Pharmacological Split Stimulation System for Neuronal Networks. IEEE Transactions on Biomedical Engineering, 2014, 61, 463-472.	2.5	3
71	Neural Transplantation Model Using Integration Co ulture Chamber. Electronics and Communications in Japan, 2014, 97, 36-43.	0.3	2
72	A light addressable electrode with a TiO2 nanocrystalline film for localized electrical stimulation of cultured neurons. Sensors and Actuators B: Chemical, 2014, 192, 393-398.	4.0	27

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73	Microfabricated device for co-culture of sympathetic neuron and iPS-derived cardiomyocytes. , 2013, 2013, 3817-20.		5
74	In vitro reconstruction and functional development of the superior colliculus in the retinotectal pathway. Neuroscience Letters, 2013, 545, 96-101.	1.0	2
75	Localized Induced Current Stimulation to Neuronal Culture Using Soft Magnetic Material. Electronics and Communications in Japan, 2013, 96, 9-17.	0.3	Ο
76	Bidirectional synaptic connection between primary and stem cell-derived neurons in co-culture device. , 2013, 2013, 6675-8.		0
77	Axon Guidance of Sympathetic Neurons to Cardiomyocytes by Glial Cell Line-Derived Neurotrophic Factor (GDNF). PLoS ONE, 2013, 8, e65202.	1.1	25
78	Trends in Neural Engineering. IEEJ Transactions on Electronics, Information and Systems, 2013, 133, 544-549.	0.1	0
79	Neuron Type Sorting Based on Connection-strength Estimation. IEEJ Transactions on Electronics, Information and Systems, 2013, 133, 1806-1813.	0.1	0
80	Sympathetic neurons modulate the beat rate of pluripotent cell-derived cardiomyocytes in vitro. Integrative Biology (United Kingdom), 2012, 4, 1532.	0.6	28
81	Network-wide integration of stem cell-derived neurons and mouse cortical neurons using microfabricated co-culture devices. BioSystems, 2012, 107, 1-8.	0.9	35
82	Device for co-culture of sympathetic neurons and cardiomyocytes using microfabrication. Lab on A Chip, 2011, 11, 2268.	3.1	57
83	Development of spatially separated coculture system of the sympathetic neuron and the cardiomyocyte. IEEJ Transactions on Electrical and Electronic Engineering, 2011, 6, 151-156.	0.8	0
84	Effects of extremely low frequency magnetic fields on neuronal development of P19 embryonal carcinoma cells. IEEJ Transactions on Electrical and Electronic Engineering, 2011, 6, 157-162.	0.8	0
85	Ensemble recording of electrical activity in neurons derived from P19 embryonal carcinoma cells. Electronics and Communications in Japan, 2011, 94, 9-19.	0.3	3
86	Autonomic nervous system driven cardiomyocytes in vitro. , 2011, 2011, 1945-8.		2
87	Parallel multipoint recording of aligned and cultured neurons on micro channel array toward cellular network analysis. Biomedical Microdevices, 2010, 12, 737-743.	1.4	4
88	Direction control of information transfer between neuronal populations with asymmetric threeâ€dimensional microstructure. Electronics and Communications in Japan, 2010, 93, 17-25.	0.3	6
89	Effects of Electrical Stimulation in Sympathetic Neuron-Cardiomyocyte Co-cultures. IEEJ Transactions on Electronics, Information and Systems, 2010, 130, 1139-1144.	0.1	0
90	Spontaneous Calcium Transients in Cultured Cortical Networks During Development. IEEE Transactions on Biomedical Engineering, 2009, 56, 2949-2956.	2.5	22

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91	Ensemble Stimulation of Embryoid Bodies using Substrate-Embedded Electrodes. IEEJ Transactions on Electrical and Electronic Engineering, 2009, 4, 734-735.	0.8	3
92	Developmental effects of low frequency magnetic fields on P19-derived neuronal cells. , 2009, 2009, 5942-5.		4
93	Light-Addressed Stimulation Under \$hbox{Ca}^{f 2+}\$ Imaging of Cultured Neurons. IEEE Transactions on Biomedical Engineering, 2009, 56, 2660-2665.	2.5	17
94	Ensemble Recording of Electrical Activity in Neurons Derived from P19 Embryonal Carcinoma Cells. IEEJ Transactions on Electronics, Information and Systems, 2009, 129, 8-16.	0.1	1
95	Application of Micro-fabrication Technology to Cell-activity Measurements. Journal of the Japan Society for Precision Engineering, 2009, 75, 113-114.	0.0	0
96	Light-addressable electrode with hydrogenated amorphous silicon and low-conductive passivation layer for stimulation of cultured neurons. Applied Physics Letters, 2007, 90, 093901.	1.5	25
97	Site-selective Electrical Recording from Small Neuronal Circuits using Spray Patterning Method and Mobile Microelectrodes. , 2007, , .		1
98	Spontaneous Calcium Dynamics in the Development of Cultured Cortical Networks. , 2007, , .		0
99	2P379 Plasticity in single-cell-based reconstructed neuronal network pattern(44.) Tj ETQq1 1 0.784314 rgBT /Ov 46, S390.	erlock 10 0.0	Tf 50 427 Td 0
100	MEA-Based Spike Recording in Cultured Neuronal Networks. , 2006, , 88-98.		6
101	Light-addressable planar electrode with hydrogenated amorphous silicon and low-conductive passivation layer for stimulation of cultured neurons. Annual International Conference of the IEEE Engineering in Medicine and Biology Society, 2006, , .	0.5	0
102	Stepwise pattern modification of neuronal network in photo-thermally-etched agarose architecture on multi-electrode array chip for individual-cell-based electrophysiological measurement. Lab on A Chip, 2005, 5, 241.	3.1	99
103	Development of Teaching Program of Finger Braille-Teaching of way to dot of sentence Journal of Life Support Engineering, 2005, 17, 149-149.	0.1	0
104	Study of visual information processing using retinal organotypic culture system. Journal of Life Support Engineering, 2005, 17, 73-73.	0.1	0
105	Real-time electrical stimulation feedback system against cardiac excitation propagation using optical mapping method. Journal of Life Support Engineering, 2005, 17, 60-60.	0.1	0
106	Simultaneous recording of electrical activity and contraction from cultured cardiomyocytes. Journal of Life Support Engineering, 2005, 17, 74-74.	0.1	0
107	Individual-Cell-Based Electrophysiological Measurement of a Topographically Controlled Neuronal Network Pattern Using Agarose Architecture with a Multi-Electrode Array. Japanese Journal of Applied Physics, 2004, 43, L403-L406.	0.8	37
108	A system for MEA-based multisite stimulation. IEEE Transactions on Biomedical Engineering, 2003, 50, 241-248.	2.5	185

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109	Continuous monitoring of developmental activity changes in cultured cortical networks. Electrical Engineering in Japan (English Translation of Denki Gakkai Ronbunshi), 2003, 145, 28-37.	0.2	43
110	Analytical characterization of spontaneous firing in networks of developing rat cultured cortical neurons. Physical Review E, 2002, 65, 051924.	0.8	40
111	The dynamics of a neuronal culture of dissociated cortical neurons of neonatal rats. Biological Cybernetics, 2000, 83, 1-20.	0.6	146
112	Multichannel Glutamate Monitoring by Electrode Array Electrochemically Immobilized with Enzymes. Electrochemistry, 2000, 68, 886-889.	0.6	4
113	Properties of the Evoked Spatio-Temporal Electrical Activity in Neuronal Assemblies. Reviews in the Neurosciences, 1999, 10, 279-90.	1.4	7
114	Activity-dependent enhancement in the reliability of correlated spike timings in cultured cortical neurons. Biological Cybernetics, 1999, 80, 45-55.	0.6	68
115	Development of low magnesium-induced spontaneous synchronized bursting and GABAergic modulation in cultured rat neocortical neurons. Neuroscience Letters, 1996, 210, 41-44.	1.0	21
116	Spontaneous periodic synchronized bursting during formation of mature patterns of connections in cortical cultures. Neuroscience Letters, 1996, 206, 109-112.	1.0	332
117	Electrical stimulation and recording from cultured neurons using a planar electrode array. Bioelectrochemistry, 1992, 29, 193-204.	1.0	122