

# Tohru Yagi

## List of Publications by Year in descending order

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85  
papers

495  
citations

1040056

9  
h-index

752698

20  
g-index

86  
all docs

86  
docs citations

86  
times ranked

509  
citing authors

#	ARTICLE	IF	CITATIONS
1	Transretinal electrical stimulation by an intrascleral multichannel electrode array in rabbit eyes. Graefe's Archive for Clinical and Experimental Ophthalmology, 2005, 243, 169-174.	1.9	88
2	Transretinal Electrical Stimulation with a Suprachoroidal Multichannel Electrode in Rabbit Eyes. Japanese Journal of Ophthalmology, 2004, 48, 256-261.	1.9	80
3	Direct Gaze Estimation Based on Nonlinearity of EOG. IEEE Transactions on Biomedical Engineering, 2015, 62, 1553-1562.	4.2	43
4	A Single-Channel Consumer-Grade EEG Device for Brain-Computer Interface: Enhancing Detection of SSVEP and Its Amplitude Modulation. IEEE Sensors Journal, 2020, 20, 3366-3378.	4.7	33
5	Spheroid Formation and Evaluation of Hepatic Cells in a Three-Dimensional Culture Device. Cell Medicine, 2015, 8, 47-56.	5.0	29
6	Conductive rubber electrodes for earphone-based eye gesture input interface. Personal and Ubiquitous Computing, 2015, 19, 143-154.	2.8	22
7	Drifting and Blinking Compensation in Electro-oculography (EOG) Eye-gaze Interface. , 2006, , .		21
8	A Study on the Frontal Cortex in Cognitive Tasks using Near-Infrared Spectroscopy. Annual International Conference of the IEEE Engineering in Medicine and Biology Society, 2007, 2007, 4731-4.	0.5	19
9	Conductive rubber electrodes for earphone-based eye gesture input interface. , 2013, , .		15
10	Enhanced Adipogenic Differentiation of Human Adipose-Derived Stem Cells in an in vitro Microenvironment: The Preparation of Adipose-Like Microtissues Using a Three-Dimensional Culture. Cell Medicine, 2017, 9, 35-44.	5.0	15
11	Distinct mechanisms for expression of Fos-like immunoreactivity and synaptic potentiation in telencephalic hyperstriatum of the quail chick. Brain Research, 1998, 779, 240-253.	2.2	11
12	Automatic drift calibration for EOG-based gaze input interface. , 2013, 2013, 53-6.		10
13	Study on mental stress using near-infrared spectroscopy, electroencephalography, and peripheral arterial tonometry. , 2008, 2008, 4992-5.		8
14	Three-Dimensional in vitro Hepatic Constructs Formed Using Combinatorial Tapered Stencil for Cluster Culture (TASCL) Device. Cell Medicine, 2015, 7, 67-74.	5.0	7
15	Cryopreservation of undifferentiated and differentiated human neuronal cells. Regenerative Therapy, 2022, 19, 58-68.	3.0	7
16	Research for estimating direction of saccadic eye movements by single trial processing. Annual International Conference of the IEEE Engineering in Medicine and Biology Society, 2007, 2007, 4723-6.	0.5	6
17	Investigation of P300 response characteristics through human color vision-based visual stimulation. , 2014, 2014, 4900-3.		5
18	Orientation-modulated attention effect on visual evoked potential: Application for PIN system using brain-computer interface. , 2015, 2015, 2327-30.		5

#	ARTICLE	IF	CITATIONS
19	Motion-Modulated and Complexity-Modulated Attention Effects on Visual Evoked Potential P300: Applications for P300-Based Brain-Computer Interfaces. IEEJ Transactions on Electronics, Information and Systems, 2015, 135, 826-831.	0.2	5
20	EEG analysis of mental concentration in golf putting. , 2012, , .		4
21	Diagnosis method of mild cognitive impairment based on power variance of EEG. , 2013, 2013, 6003-6.		4
22	Personal identification number application using brain-computer interface. , 2015, , .		4
23	Encapsulation of Single Cells into Fixed Droplets Using Triangular Microwells. Electronics and Communications in Japan, 2016, 99, 55-63.	0.5	4
24	Research on the Characteristics of Alzheimer's Disease Using EEG. IEEJ Transactions on Electronics, Information and Systems, 2010, 130, 1827-1832.	0.2	4
25	Analysis of EEG Related Saccadic Eye Movement.. IEEJ Transactions on Electronics, Information and Systems, 2003, 123, 93-99.	0.2	4
26	Effect of pulse parameters on visual nervous system. International Journal of Applied Electromagnetics and Mechanics, 2002, 14, 337-340.	0.6	3
27	Drowsiness detection by skin potential activity. , 2013, , .		3
28	New visual stimulation paradigm for P300-based brain-computer interfaces. , 2014, , .		3
29	Single trial analysis on saccade-related EEG signal. , 2007, , .		2
30	Cytotoxicity test and mass spectrometry of IPMC. Electronics and Communications in Japan, 2010, 93, 1-8.	0.5	2
31	EOG-based eye gesture input with audio staging. , 2014, , .		2
32	Classification Method for Mild Cognitive Impairment Based on Power Variability of EEG Using Only a Few Electrodes. Electronics and Communications in Japan, 2016, 99, 107-114.	0.5	2
33	Analysis for Alzheimer's disease using cross-correlation of EEG data. , 2017, , .		2
34	Nanopore lipid bilayer formed by self-spreading method. Electronics and Communications in Japan, 2019, 102, 47-54.	0.5	2
35	Preparation of Size-controlled Giant Vesicles Under Physiological Conditions. , 2020, 2020, 2198-2201.		2
36	Functional Analysis of Liposomes Containing Single-Walled Carbon Nanotubes (SWNTs) by Fluorescence Microscopy. IEEJ Transactions on Electronics, Information and Systems, 2021, 141, 620-626.	0.2	2

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37	Effect of Magnetic Nanoparticle Internalization on Cell Density in Skeletal Muscle Tissue. IEEJ Transactions on Electronics, Information and Systems, 2021, 141, 795-801.	0.2	2
38	A Study of the Effects of Plasma Surface Treatment on Lipid Bilayers Self-Spreading on a Polydimethylsiloxane Substrate under Different Treatment Times. Langmuir, 2021, 37, 10732-10740.	3.5	2
39	Personal Identification Number Application Using Adaptive P300 Brain-Computer Interface. IEEJ Transactions on Electronics, Information and Systems, 2016, 136, 1277-1282.	0.2	2
40	Computed Property Data Base: CPDB-Development of an Integrated Software Tool for Molecular Design: MolWorks-. Journal of Computer Chemistry Japan, 2006, 5, 23-28.	0.1	2
41	Study on Physiological Indexes during Mental Focus Task -Comparison between Near-Infrared Spectroscopy, Electroencephalography, Heart Rate Variability and Peripheral Arterial Tonometry-. IEEJ Transactions on Electronics, Information and Systems, 2009, 129, 1808-1814.	0.2	2
42	Relationship between saccade to EEG signals in time-frequency domain. , 2007, , .		1
43	Alphabet matrix layout in P300 speller may alter its performance. , 2012, , .		1
44	Evaluation method for ion transport via nanopores: Toward a neural stimulation electrode using membrane protein. , 2012, , .		1
45	Creating a 3D Printer Molecular Orbital Model byMOPAC Calculation of Winmostar. Journal of Computer Chemistry Japan, 2017, 16, 22-27.	0.1	1
46	Formation of Agarose-supported Liposomes by Polymer-assisted Method toward Biosensor. IEEJ Transactions on Electronics, Information and Systems, 2021, 141, 646-653.	0.2	1
47	Development of Novel ECM which has Stiffness Difference based on Hydrogel Beads. IEEJ Transactions on Electronics, Information and Systems, 2021, 141, 607-613.	0.2	1
48	Neural Interface for Biohybrid Prosthetic Hands to Realize Sensory and Motor Functions. Journal of Robotics and Mechatronics, 2022, 34, 316-318.	1.0	1
49	2241 Fos and LTP in telencephalic nucleus IMHV involved in neonatal chick learning. Neuroscience Research, 1997, 28, S263.	1.9	0
50	A study on the primary motor cortex performing motor imagery task for the development of a brain-computer interface. , 2007, , .		0
51	Evaluating the effects of cosmetic therapy by EEG. Neuroscience Research, 2011, 71, e55.	1.9	0
52	Relating plastic changes of short latency human soleus stretch reflex to changes in task performance induced by training. , 2012, 2012, 3636-9.		0
53	Evaluation of the effect of cosmetic therapy by EEG. , 2012, , .		0
54	Permeability of tubular membrane protein. , 2013, , .		0

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55	A study on SSVEP-based brain synchronization: Road to brain-to-brain communication. , 2016, , .		0
56	Mobile lipid bilayer on agar-coated electrode: Toward modeling cellular communication via gap junction. , 2016, , .		0
57	Single-channel electrooculography application using unsupervised calibration. , 2016, , .		0
58	Self-spreading method for forming lipid bilayer on a patterned agarose gel: Toward precise lipid bilayer patterning. , 2017, 2017, 1877-1880.		0
59	Audiovisual integration system based on synesthesia for people with impaired hearing. , 2017, , .		0
60	Hydrogel-supported bilayers for studying membrane protein functions. , 2017, , .		0
61	Microtunnel-electrode device for elucidating axon features: Toward pharmacological manipulation of individual axons. , 2017, , .		0
62	An analysis for Alzheimerâ€™s disease using cross-correlation and averaged frequency of EEG data. , 2018, , .		0
63	Method for controlling non-labeled cell migration using the magneto-Archimedes effect. , 2018, , .		0
64	Nanopore-spanning lipid bilayer formed by self-spreading method. , 2018, , .		0
65	Correlation dimension to determine changes in subbands of epileptic signals. , 2019, , .		0
66	Preparation of giant lipobeads using a gel-assisted swelling method. , 2019, , .		0
67	Development of novel ECM which has stiffness difference based on hydrogel beads. Electronics and Communications in Japan, 2021, 104, e12321.	0.5	0
68	Quantitative Evaluation of Reading Ability with Simulated Prosthetic Vision. IEEJ Transactions on Electronics, Information and Systems, 2002, 122, 1104-1109.	0.2	0
69	Cytotoxicity Test and Mass Spectrometry of IPMC. IEEJ Transactions on Electronics, Information and Systems, 2008, 128, 1029-1035.	0.2	0
70	Preface to the Special Issue on â€œHuman Interface & Biocyberneticsâ€• IEEJ Transactions on Electronics, Information and Systems, 2009, 129, 1773-1773.	0.2	0
71	Fabrication Process of Micro-patterns on Cell-Culturing Substrates toward High-Resolution Control and Observation of Cell Migration. IEEJ Transactions on Electronics, Information and Systems, 2011, 131, 833-839.	0.2	0
72	A Study on Encapsulation of Single-Cell into Fixed Droplets Using Triangular Microwells. IEEJ Transactions on Electronics, Information and Systems, 2014, 134, 848-855.	0.2	0

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73	Analysis of Actin Protein Dynamics at the Protrusion Process of Cell Movement. IEEJ Transactions on Electronics, Information and Systems, 2014, 134, 177-182.	0.2	0
74	Classification Method for Mild Cognitive Impairment Based on Power Variability of EEG Using Only a Few Electrodes. IEEJ Transactions on Electronics, Information and Systems, 2015, 135, 1369-1375.	0.2	0
75	1C23 A study on artificial cell membrane formed on mesh filter. The Proceedings of the Bioengineering Conference Annual Meeting of BED/J SME, 2016, 2016.28, _1C23-1_-_1C23-4_.	0.0	0
76	1B11 Vital sign monitoring system during sleep using a non-contact sensor. The Proceedings of the Bioengineering Conference Annual Meeting of BED/J SME, 2016, 2016.28, _1B11-1_-_1B11-4_.	0.0	0
77	Hybrid Brain/Blink Computer Interface toward a Personal Identification Number Application. IEEJ Transactions on Electronics, Information and Systems, 2016, 136, 1312-1317.	0.2	0
78	New Catheter-based Calibration Method for 2D X-ray Angiography Myocardial Perfusion. IEEJ Transactions on Electronics, Information and Systems, 2016, 136, 1305-1311.	0.2	0
79	Preface to the Special Issue on "Neural Engineering, Cybernetics, and Bioengineering". IEEJ Transactions on Electronics, Information and Systems, 2016, 136, 1253-1253.	0.2	0
80	Analysis for Alzheimer's Disease and Dementia with Lewy Bodies Using Average Frequency and Cross-correlation of EEG Data. Transactions of the Society of Instrument and Control Engineers, 2019, 55, 536-544.	0.2	0
81	Computerized Analysis of EEG to Determine Focal Epilepsy. IEEJ Transactions on Electronics, Information and Systems, 2019, 139, 609-614.	0.2	0
82	Complexity Analysis in Focal Epilepsy Using Entropy Methods. IEEJ Transactions on Electronics, Information and Systems, 2019, 139, 1027-1032.	0.2	0
83	Nano-pore Lipid Bilayer Formed by Self-spreading Method. IEEJ Transactions on Electronics, Information and Systems, 2019, 139, 1146-1152.	0.2	0
84	Effect of the amount of carbon nanotubes introduced into liposomes on membrane permeability. , 2021, , .		0
85	Frequency-specific Flicker Modulates the Cognitive Response to Arithmetic Tasks. , 2021, , .		0