

# Tohru Yagi

## List of Publications by Year in descending order

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Version: 2024-02-01

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  | Cryopreservation of undifferentiated and differentiated human neuronal cells. Regenerative Therapy, 2022, 19, 58-68.  | 3.0 | 7         |
| 2  | Neural Interface for Biohybrid Prosthetic Hands to Realize Sensory and Motor Functions. Journal of Robotics and Mechatronics, 2022, 34, 316-318.  | 1.0 | 1         |
| 3  | 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         |
| 4  | 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         |
| 5  | 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         |
| 6  | 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         |
| 7  | 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         |
| 8  | Development of novel ECM which has stiffness difference based on hydrogel beads. Electronics and Communications in Japan, 2021, 104, e12321.  | 0.5 | 0         |
| 9  | Effect of the amount of carbon nanotubes introduced into liposomes on membrane permeability. , 2021, , .  |     | 0         |
| 10 | Frequency-specific Flicker Modulates the Cognitive Response to Arithmetic Tasks. , 2021, , .  |     | 0         |
| 11 | 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        |
| 12 | Preparation of Size-controlled Giant Vesicles Under Physiological Conditions. , 2020, 2020, 2198-2201.  |     | 2         |
| 13 | Correlation dimension to determine changes in subbands of epileptic signals. , 2019, , .  |     | 0         |
| 14 | Preparation of giant lipobeads using a gel-assisted swelling method. , 2019, , .  |     | 0         |
| 15 | Nanopore lipid bilayer formed by self-spreading method. Electronics and Communications in Japan, 2019, 102, 47-54.  | 0.5 | 2         |
| 16 | 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         |
| 17 | Computerized Analysis of EEG to Determine Focal Epilepsy. IEEJ Transactions on Electronics, Information and Systems, 2019, 139, 609-614.  | 0.2 | 0         |
| 18 | Complexity Analysis in Focal Epilepsy Using Entropy Methods. IEEJ Transactions on Electronics, Information and Systems, 2019, 139, 1027-1032.   | 0.2 | 0         |

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|----|---|-----|-----------|
| 19 | Nano-pore Lipid Bilayer Formed by Self-spreading Method. IEEJ Transactions on Electronics, Information and Systems, 2019, 139, 1146-1152.   | 0.2 | 0         |
| 20 | An analysis for Alzheimer's disease using cross-correlation and averaged frequency of EEG data. , 2018, , .   |     | 0         |
| 21 | Method for controlling non-labeled cell migration using the magneto-Archimedes effect. , 2018, , .  |     | 0         |
| 22 | Nanopore-spanning lipid bilayer formed by self-spreading method. , 2018, , .  |     | 0         |
| 23 | 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        |
| 24 | Self-spreading method for forming lipid bilayer on a patterned agarose gel: Toward precise lipid bilayer patterning. , 2017, 2017, 1877-1880.   |     | 0         |
| 25 | Analysis for Alzheimer's disease using cross-correlation of EEG data. , 2017, , .   |     | 2         |
| 26 | Audiovisual integration system based on synesthesia for people with impaired hearing. , 2017, , .   |     | 0         |
| 27 | Hydrogel-supported bilayers for studying membrane protein functions. , 2017, , .  |     | 0         |
| 28 | Creating a 3D Printer Molecular Orbital Model byMOPAC Calculation of Winmostar. Journal of Computer Chemistry Japan, 2017, 16, 22-27.   | 0.1 | 1         |
| 29 | Microtunnel-electrode device for elucidating axon features: Toward pharmacological manipulation of individual axons. , 2017, , .  |     | 0         |
| 30 | Encapsulation of Single Cells into Fixed Droplets Using Triangular Microwells. Electronics and Communications in Japan, 2016, 99, 55-63.  | 0.5 | 4         |
| 31 | A study on SSVEP-based brain synchronization: Road to brain-to-brain communication. , 2016, , .   |     | 0         |
| 32 | Mobile lipid bilayer on agar-coated electrode: Toward modeling cellular communication via gap junction. , 2016, , .   |     | 0         |
| 33 | Single-channel electrooculography application using unsupervised calibration. , 2016, , .   |     | 0         |
| 34 | 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         |
| 35 | Personal Identification Number Application Using Adaptive P300 Brain-Computer Interface. IEEJ Transactions on Electronics, Information and Systems, 2016, 136, 1277-1282.   | 0.2 | 2         |
| 36 | 1C23 A study on artificial cell membrane formed on mesh filter. The Proceedings of the Bioengineering Conference Annual Meeting of BED/JSME, 2016, 2016.28, _1C23-1_-_1C23-4_.  | 0.0 | 0         |

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|----|--|-----|-----------|
| 37 | 1B11 Vital sign monitoring system during sleep using a non-contact sensor. The Proceedings of the Bioengineering Conference Annual Meeting of BED/JSM, 2016, 2016.28, _1B11-1_-_1B11-4_.   | 0.0 | 0         |
| 38 | 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         |
| 39 | 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         |
| 40 | 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         |
| 41 | Spheroid Formation and Evaluation of Hepatic Cells in a Three-Dimensional Culture Device. Cell Medicine, 2015, 8, 47-56.   | 5.0 | 29        |
| 42 | 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         |
| 43 | Orientation-modulated attention effect on visual evoked potential: Application for PIN system using brain-computer interface. , 2015, 2015, 2327-30.   |     | 5         |
| 44 | Conductive rubber electrodes for earphone-based eye gesture input interface. Personal and Ubiquitous Computing, 2015, 19, 143-154.   | 2.8 | 22        |
| 45 | Direct Gaze Estimation Based on Nonlinearity of EOG. IEEE Transactions on Biomedical Engineering, 2015, 62, 1553-1562.   | 4.2 | 43        |
| 46 | Personal identification number application using brain-computer interface. , 2015, , .   |     | 4         |
| 47 | 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         |
| 48 | 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         |
| 49 | EOG-based eye gesture input with audio staging. , 2014, , .  |     | 2         |
| 50 | Investigation of P300 response characteristics through human color vision-based visual stimulation. , 2014, 2014, 4900-3.  |     | 5         |
| 51 | New visual stimulation paradigm for P300-based brain-computer interfaces. , 2014, , .  |     | 3         |
| 52 | 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         |
| 53 | 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         |
| 54 | Permeability of tubular membrane protein. , 2013, , .  |     | 0         |

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|----|---|-----|-----------|
| 55 | Automatic drift calibration for EOG-based gaze input interface. , 2013, 2013, 53-6.   |     | 10        |
| 56 | Drowsiness detection by skin potential activity. , 2013, , .  |     | 3         |
| 57 | Diagnosis method of mild cognitive impairment based on power variance of EEG. , 2013, 2013, 6003-6.   |     | 4         |
| 58 | Conductive rubber electrodes for earphone-based eye gesture input interface. , 2013, , .  |     | 15        |
| 59 | Relating plastic changes of short latency human soleus stretch reflex to changes in task performance induced by training. , 2012, 2012, 3636-9.   |     | 0         |
| 60 | Alphabet matrix layout in P300 speller may alter its performance. , 2012, , .   |     | 1         |
| 61 | Evaluation of the effect of cosmetic therapy by EEG. , 2012, , .  |     | 0         |
| 62 | Evaluation method for ion transport via nanopores: Toward a neural stimulation electrode using membrane protein. , 2012, , .  |     | 1         |
| 63 | EEG analysis of mental concentration in golf putting. , 2012, , .   |     | 4         |
| 64 | Evaluating the effects of cosmetic therapy by EEG. Neuroscience Research, 2011, 71, e55.  | 1.9 | 0         |
| 65 | 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         |
| 66 | Cytotoxicity test and mass spectrometry of IPMC. Electronics and Communications in Japan, 2010, 93, 1-8.  | 0.5 | 2         |
| 67 | Research on the Characteristics of Alzheimer's Disease Using EEG. IEEJ Transactions on Electronics, Information and Systems, 2010, 130, 1827-1832.  | 0.2 | 4         |
| 68 | 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         |
| 69 | Preface to the Special Issue on "Human Interface & Biocybernetics" IEEJ Transactions on Electronics, Information and Systems, 2009, 129, 1773-1773.   | 0.2 | 0         |
| 70 | Study on mental stress using near-infrared spectroscopy, electroencephalography, and peripheral arterial tonometry. , 2008, 2008, 4992-5.   |     | 8         |
| 71 | Cytotoxicity Test and Mass Spectrometry of IPMC. IEEJ Transactions on Electronics, Information and Systems, 2008, 128, 1029-1035.   | 0.2 | 0         |
| 72 | 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         |

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|----|---|-----|-----------|
| 73 | A study on the primary motor cortex performing motor imagery task for the development of a brain-computer interface. , 2007, , .  |     | 0         |
| 74 | Single trial analysis on saccade-related EEG signal. , 2007, , .  |     | 2         |
| 75 | 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        |
| 76 | Relationship between saccade to EEG signals in time-frequency domain. , 2007, , .   |     | 1         |
| 77 | Drifting and Blinking Compensation in Electro-oculography (EOG) Eye-gaze Interface. , 2006, , .   |     | 21        |
| 78 | 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         |
| 79 | 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        |
| 80 | Transretinal Electrical Stimulation with a Suprachoroidal Multichannel Electrode in Rabbit Eyes. Japanese Journal of Ophthalmology, 2004, 48, 256-261.  | 1.9 | 80        |
| 81 | Analysis of EEG Related Saccadic Eye Movement.. IEEJ Transactions on Electronics, Information and Systems, 2003, 123, 93-99.  | 0.2 | 4         |
| 82 | Effect of pulse parameters on visual nervous system. International Journal of Applied Electromagnetics and Mechanics, 2002, 14, 337-340.  | 0.6 | 3         |
| 83 | Quantitative Evaluation of Reading Ability with Simulated Prosthetic Vision. IEEJ Transactions on Electronics, Information and Systems, 2002, 122, 1104-1109.                                   | 0.2 | 0         |
| 84 | 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        |
| 85 | 2241 Fos and LTP in telencephalic nucleus IMHV involved in neonatal chick learning. Neuroscience Research, 1997, 28, S263.  | 1.9 | 0         |