

# Akihiko Kandori

## List of Publications by Year in descending order

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Version: 2024-02-01

117  
papers

1,479  
citations

361045

20  
h-index

476904

29  
g-index

120  
all docs

120  
docs citations

120  
times ranked

1067  
citing authors

#	ARTICLE	IF	CITATIONS
1	Boys with attention-deficit/hyperactivity disorder perform wider and fewer finger tapping than typically developing boys – Peer comparisons and the effects of methylphenidate from an exploratory perspective. <i>Brain and Development</i> , 2022, 44, 189-195.	0.6	3
2	Increased cerebrovascular reactivity in selected brain regions after extracranial-intracranial bypass improves the speed and accuracy of visual cancellation in patients with severe steno-occlusive disease: a preliminary study. <i>Neurosurgical Review</i> , 2022, , 1.	1.2	0
3	Abstract TP217: Potential Utility Of Magnetocardiogram For Patients With Embolic Stroke Of Undetermined Source. <i>Stroke</i> , 2022, 53, .	1.0	0
4	Artificially-reconstructed brain images with stroke lesions from non-imaging data: modeling in categorized patients based on lesion occurrence and sparsity. <i>Scientific Reports</i> , 2022, 12, .	1.6	0
5	Early identification of Alzheimer's disease in mouse models: Application of deep neural network algorithm to cognitive behavioral parameters. <i>IScience</i> , 2021, 24, 102198.	1.9	14
6	Pen-point Trajectory Analysis During Trail Making Test Based on a Time Base Generator Model. , 2021, 2021, 6215-6219.		7
7	Assessment of finger motor function that reflects the severity of cognitive function.. , 2021, 7, 122-129.		4
8	Lesions in the right Rolandic operculum are associated with self-rating affective and apathetic depressive symptoms for post-stroke patients. <i>Scientific Reports</i> , 2020, 10, 20264.	1.6	33
9	Quantitative assessment of fine motor skills in children using magnetic sensors. <i>Brain and Development</i> , 2020, 42, 421-430.	0.6	4
10	Development of noise correction method of environmental magnetic field with reference magnetic sensor for magnetocardiography. <i>Electronics and Communications in Japan</i> , 2020, 103, 21-28.	0.3	1
11	Development of Noise Correction Method of Environmental Magnetic Field with Reference Magnetic Sensor for Magnetocardiography. <i>IEEJ Transactions on Fundamentals and Materials</i> , 2020, 140, 142-148.	0.2	0
12	Assessment of finger movement characteristics in dementia patients using a magnetic sensing finger-tap device. , 2020, 11, 91-97.		5
13	Nigrostriatal Dopaminergic Dysfunction and Altered Functional Connectivity in REM Sleep Behavior Disorder With Mild Motor Impairment. <i>Frontiers in Neurology</i> , 2019, 10, 802.	1.1	16
14	Detection of Abnormal Segments in Finger Tapping Waveform using One-class SVM. , 2019, 2019, 1378-1381.		1
15	Noninvasive Mapping of Premature Ventricular Contractions by Merging Magnetocardiography and Computed Tomography. <i>JACC: Clinical Electrophysiology</i> , 2019, 5, 1144-1157.	1.3	10
16	Quantitative Evaluation of Human Finger Tapping Movements Through Magnetic Measurements. <i>IEEE/ASME Transactions on Mechatronics</i> , 2019, 24, 186-196.	3.7	3
17	Effects of Shape Characteristics on Tactile Sensing Recognition and Brain Activation. <i>Journal of Advanced Computational Intelligence and Intelligent Informatics</i> , 2019, 23, 1080-1088.	0.5	2
18	Diagnostic Device for Steel Cords in Escalator Handrail. <i>The Proceedings of the Elevator Escalator and Amusement Rides Conference</i> , 2019, 2019, 104.	0.1	0

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19	Differences among patients with Alzheimer's disease, older adults with mild cognitive impairment and healthy older adults in finger dexterity. <i>Geriatrics and Gerontology International</i> , 2018, 18, 907-914.	0.7	35
20	Wash-free detection of C-reactive protein based on third-harmonic signal measurement of magnetic markers. <i>Japanese Journal of Applied Physics</i> , 2018, 57, 090309.	0.8	13
21	Highly Sensitive Third-Harmonic Detection Method of Magnetic Nanoparticles Using an AC Susceptibility Measurement System for Liquid-Phase Assay. <i>IEEE Transactions on Applied Superconductivity</i> , 2016, 26, 1-4.	1.1	25
22	Quantifying Parkinson's disease finger-tapping severity by extracting and synthesizing finger motion properties. <i>Medical and Biological Engineering and Computing</i> , 2016, 54, 953-965.	1.6	28
23	Assessment of finger motor skills in individuals with mild cognitive impairment and patients with Alzheimer's disease: Relationship between finger-to-thumb tapping and cognitive function. , 2016, 7, 19-28.		25
24	Bradykinesia in idiopathic normal pressure hydrocephalus evaluated by quantitative finger tapping test: preliminary study. <i>Fluids and Barriers of the CNS</i> , 2015, 12, P38.	2.4	0
25	A simple accurate chest-compression depth gauge using magnetic coils during cardiopulmonary resuscitation. <i>Review of Scientific Instruments</i> , 2015, 86, 124301.	0.6	1
26	Ability of magnetocardiography to detect regional dominant frequencies of atrial fibrillation. <i>Journal of Arrhythmia</i> , 2015, 31, 345-351.	0.5	22
27	2P1-S07 Development of a Tablet Application for Readily Testing Higher Brain Functions Based on Cognitive Information Processing Models. <i>The Proceedings of JSME Annual Conference on Robotics and Mechatronics (Robomec)</i> , 2015, 2015, _2P1-S07_1-_2P1-S07_4.	0.0	0
28	Development of a continuous sphygmomanometer using electromagnetic induction. , 2014, , .		1
29	Liquid-phase immunoassay utilizing binding reactions between magnetic markers and targets in the presence of a magnetic field. <i>Applied Physics Express</i> , 2014, 7, 097001.	1.1	16
30	Noise reduction by perfect-translation-invariant complex discrete wavelet transforms for fetal electrocardiography and magnetocardiography. <i>International Journal of Wavelets, Multiresolution and Information Processing</i> , 2014, 12, 1460008.	0.9	6
31	Highly Sensitive Liquid-Phase Detection of Biological Targets With Magnetic Markers and High $T_c$ SQUID. <i>IEEE Transactions on Applied Superconductivity</i> , 2014, 24, 1-5.	1.1	17
32	Development of a magnetocardiography-based algorithm for discrimination between ventricular arrhythmias originating from the right ventricular outflow tract and those originating from the aortic sinus cusp: A pilot study. <i>Heart Rhythm</i> , 2014, 11, 1605-1612.	0.3	15
33	Magnetic Detection of Currents in an Electrolytic Cell Using High- $T_c$ SQUID. <i>IEEE Transactions on Applied Superconductivity</i> , 2013, 23, 1600804-1600804.	1.1	5
34	Microtesla NMR Measurement of Protons and Fluorine Nuclei Using a SQUID Gradiometer. <i>IEEE Transactions on Applied Superconductivity</i> , 2013, 23, 1600904-1600904.	1.1	3
35	In Utero Diagnosis of Long QT Syndrome by Magnetocardiography. <i>Circulation</i> , 2013, 128, 2183-2191.	1.6	92
36	Finger-tapping Motion Analysis in Cervical Myelopathy by Magnetic-Sensor Tapping Device. <i>Journal of Spinal Disorders and Techniques</i> , 2013, 26, E204-E208.	1.8	9

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37	Surface Mapping and Magneto-Electrocardiography. , 2013, , 223-238.		0
38	Advanced HTS SQUID System for Biomedical Diagnosis and Nondestructive Testing. TEION KOGAKU (Journal of Cryogenics and Superconductivity Society of Japan), 2013, 48, 4-11.	0.1	0
39	Motor Function Evaluation and Classification in Finger Tapping Movements for Parkinson's Disease Using a Factor Analysis. Transactions of the Society of Instrument and Control Engineers, 2013, 49, 975-981.	0.1	0
40	CPG Synergy Hypothesis: A CPG Synergy Model for Generating Nonstationary Rhythmic Signals and Representation of Finger Tapping Movements. Transactions of the Society of Instrument and Control Engineers, 2013, 49, 688-695.	0.1	0
41	Development of a Compact Moving-Sample Magnetometer Using High-T <sub>c</sub> Superconducting Quantum Interference Device. Japanese Journal of Applied Physics, 2012, 51, 046601.	0.8	18
42	Magnetic Nanoparticle Imaging Using Harmonic Signals. IEEE Transactions on Magnetics, 2012, 48, 3776-3779.	1.2	22
43	Severity estimation of finger-tapping caused by Parkinson's disease by using linear discriminant regression analysis. , 2012, 2012, 4315-8.		5
44	Improvement of an Optically Pumped Magnetometer Using a Combination of D <sub>1</sub> and D <sub>2</sub> Transitions. Japanese Journal of Applied Physics, 2012, 51, 082404.	0.8	5
45	Note: Low temperature superconductor superconducting quantum interference device system with wide pickup coil for detecting small metallic particles. Review of Scientific Instruments, 2012, 83, 076108.	0.6	3
46	Simultaneous measurement of neuronal activity and cortical hemodynamics by unshielded magnetoencephalography and near-infrared spectroscopy. Journal of Biomedical Optics, 2012, 17, 1070011.	1.4	12
47	An Increase in Right Atrial Magnetic Strength Is a Novel Predictor of Recurrence of Atrial Fibrillation After Radiofrequency Catheter Ablation. Circulation Journal, 2012, 76, 1601-1608.	0.7	19
48	Electrogram organization predicts left atrial reverse remodeling after the restoration of sinus rhythm by catheter ablation in patients with persistent atrial fibrillation. Heart Rhythm, 2012, 9, 1769-1778.	0.3	20
49	Development of a palpable carotid pulse pressure sensor using electromagnetic induction. , 2012, , .		1
50	Simple Magnetic Swallowing Detection System. IEEE Sensors Journal, 2012, 12, 805-811.	2.4	16
51	Characterization of Magnetic Markers for Liquid-Phase Immunoassays Using Brownian Relaxation. Japanese Journal of Applied Physics, 2012, 51, 023002.	0.8	11
52	Characterization of Magnetic Markers for Liquid-Phase Immunoassays Using Brownian Relaxation. Japanese Journal of Applied Physics, 2012, 51, 023002.	0.8	8
53	1P1-N03 Development of a Carotid Pulse Pressure Sensor Using Electromagnetic Induction(Medical) Tj ETQq1 1 0.784314 rgBT /Over Mechatronics (Robomec), 2012, 2012, _1P1-N03_1-_1P1-N03_4.	0.0	1
54	Development of a Palpable Carotid Pulse Pressure Sensor Using Electromagnetic Induction. IEEJ Transactions on Electronics, Information and Systems, 2012, 132, 1934-1942.	0.1	0

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55	Development of a Compact Moving-Sample Magnetometer Using High-T <sub>c</sub> Superconducting Quantum Interference Device. Japanese Journal of Applied Physics, 2012, 51, 046601.	0.8	3
56	Improvement of an Optically Pumped Magnetometer Using a Combination of D <sub>1</sub> and D <sub>2</sub> Transitions. Japanese Journal of Applied Physics, 2012, 51, 082404.	0.8	0
57	Psychometrics of Dominant Right Hand During the 9-Hole Peg Test: Differences Between Peg Placement and Removal. PM and R, 2011, 3, 40-44.	0.9	6
58	A CPG synergy model for evaluation of human finger tapping movements. , 2011, 2011, 4443-8.		10
59	A Novel Estimation Method of Human Finger Tapping Forces Based on a. Journal of the Society of Biomechanisms, 2011, 35, 37-44.	0.0	1
60	Liquid-Phase Immunoassays Using Brownian Relaxation of Magnetic Markers. IEEE Transactions on Magnetics, 2011, 47, 2867-2870.	1.2	7
61	Design of Pickup Coil Made of Litz Wire and Cooled at 77 K for High Sensitive Measurement of AC Magnetic Fields. Japanese Journal of Applied Physics, 2011, 50, 076602.	0.8	5
62	Reliability of Finger Tapping Test Used in Diagnosis of Movement Disorders. , 2011, , .		5
63	Design of Pickup Coil Made of Litz Wire and Cooled at 77 K for High Sensitive Measurement of AC Magnetic Fields. Japanese Journal of Applied Physics, 2011, 50, 076602.	0.8	4
64	Repeatability Evaluation of Finger Tapping Device with Magnetic Sensors. Transactions of the Society of Instrument and Control Engineers, 2011, 47, 272-281.	0.1	2
65	Japanese Journal of Electrocardiology, 2011, 31, 34-44.		
66	Optimized Condition for Buffer Gas in Optical-Pumped Magnetometer Operated at Room Temperature. Japanese Journal of Applied Physics, 2010, 49, 082401.	0.8	18
67	Subtraction Magnetocardiogram for Detecting Coronary Heart Disease. Annals of Noninvasive Electrocardiology, 2010, 15, 360-368.	0.5	17
68	Evaluation and Training of Human Finger Tapping Movements. , 2010, , .		1
69	Liquid phase immunoassays utilizing magnetic markers and SQUID magnetometer. Clinical Chemistry and Laboratory Medicine, 2010, 48, 1263-1269.	1.4	19
70	Estimation method of finger tapping dynamics using simple magnetic detection system. Review of Scientific Instruments, 2010, 81, 054303.	0.6	11
71	Note: Unshielded bilateral magnetoencephalography system using two-dimensional gradiometers. Review of Scientific Instruments, 2010, 81, 096103.	0.6	4
72	Immunoassay detection without washing by using AC magnetic susceptibility. , 2010, , .		1

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73	Development of a SQUID System Using Field Reversal for Rapidly Detecting Bacteria. IEEE Transactions on Applied Superconductivity, 2009, 19, 853-856.	1.1	4
74	Demonstration of Unshielded Fetal Magnetocardiography System Using Two-Dimensional Gradiometers. IEEE Transactions on Applied Superconductivity, 2009, 19, 857-860.	1.1	4
75	Estimation of human finger tapping forces based on a fingerpad-stiffness model. , 2009, 2009, 2663-7.		9
76	Highly Sensitive Measurement of Moisture Content Using HTS-SQUID. IEEE Transactions on Applied Superconductivity, 2009, 19, 878-881.	1.1	20
77	Measurement and Evaluation of Finger Tapping Movements Using Log-linearized Gaussian Mixture Networks. Sensors, 2009, 9, 2187-2201.	2.1	41
78	Repolarization Spatialâ€”Time Current Abnormalities in Patients with Coronary Heart Disease. PACE - Pacing and Clinical Electrophysiology, 2009, 32, 516-524.	0.5	13
79	Liquid-Phase Detection of Biological Targets with Magnetic Marker and Superconducting Quantum Interference Device. IEICE Transactions on Electronics, 2009, E92-C, 315-322.	0.3	2
80	Spaceâ€”Time Database for Standardization of Adult Magnetocardiogramâ€”Making Standard MCG Parameters. PACE - Pacing and Clinical Electrophysiology, 2008, 31, 422-431.	0.5	16
81	Standard Template of Adult Magnetocardiogram. Annals of Noninvasive Electrocardiology, 2008, 13, 391-400.	0.5	13
82	Standardization of magnetocardiography in nonhuman primates. Physics in Medicine and Biology, 2008, 53, 1609-1618.	1.6	4
83	Unshielded fetal magnetocardiography system using two-dimensional gradiometers. Review of Scientific Instruments, 2008, 79, 036106.	0.6	12
84	Measurement and evaluation of finger tapping movements using magnetic sensors. , 2008, 2008, 5628-31.		30
85	A tapping interface for finger movement training using magnetic sensors. Conference Proceedings IEEE International Conference on Systems, Man, and Cybernetics, 2008, , .	0.0	1
86	A Motor Function Evaluation System for Finger Tapping Movements Using Magnetic Sensors. Iryou Kikigaku (the Japanese Journal of Medical Instrumentation), 2008, 78, 909-918.	0.0	1
87	B216 Improvement of spatial-filter beam response for an MCG sensor array. The Proceedings of the JSME Conference on Frontiers in Bioengineering, 2008, 2008.19, 69-70.	0.0	0
88	Two-Dimensional Gradiometer. Japanese Journal of Applied Physics, 2007, 46, 3397-3401.	0.8	12
89	Integral Value of JT Interval in Magnetocardiography is Sensitive to Coronary Stenosis and Improves Soon After Coronary Revascularization. Circulation Journal, 2007, 71, 1586-1592.	0.7	26
90	Motion analysis of grip and release with fingers using simple magnetic detection system. Review of Scientific Instruments, 2007, 78, 034302.	0.6	10

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91	Development of high-temperature superconducting SQUID system for magnetocardiography. Electronics and Communications in Japan, 2007, 90, 46-55.	0.2	0
92	A New Calibration Method of Magnetic Sensors for Measurement of Human Finger Tapping Movements. Transactions of the Society of Instrument and Control Engineers, 2007, 43, 821-828.	0.1	3
93	Performance of open cylindrical magnetic shield for magnetocardiograph using low-Tc SQUIDs. Journal of Physics: Conference Series, 2006, 43, 1250-1253.	0.3	1
94	Electrical Space-Time Abnormalities of Ventricular Depolarization in Patients with Brugada Syndrome and Patients with Complete Right-Bundle Branch Blocks Studied by Magnetocardiography. PACE - Pacing and Clinical Electrophysiology, 2006, 29, 15-20.	0.5	17
95	Magnetocardiography Study on Ventricular Depolarization-Current Pattern in Patients with Brugada Syndrome and Complete Right-Bundle Branch Blocks. PACE - Pacing and Clinical Electrophysiology, 2006, 29, 1359-1367.	0.5	12
96	Basic Technology and Clinical Application Technique of Magnetocardiograph. IEEJ Transactions on Fundamentals and Materials, 2005, 125, 81-84.	0.2	2
97	Control System for Readout Electronics of Multi-Channel Magnetocardiographs Using High-Temperature DC Superconducting Quantum Interference Devices. Japanese Journal of Applied Physics, 2005, 44, 6513-6518.	0.8	2
98	Open-type magnetocardiograph with cylindrical magnetic shield. Applied Physics Letters, 2005, 86, 243902.	1.5	16
99	A Mobile and Space-saving High-temperature Superconducting Multichannel Magnetocardiograph in a Vertical Magnetically Shielded Cylinder. Japanese Journal of Applied Physics, 2004, 43, 117-120.	0.8	11
100	Quantitative magnetic detection of finger movements in patients with Parkinson's disease. Neuroscience Research, 2004, 49, 253-260.	1.0	52
101	A new screening method to diagnose coronary artery disease using multichannel magnetocardiogram and simple exercise. Basic Research in Cardiology, 2003, 98, 124-132.	2.5	42
102	A 16-channel high-TcSQUID-magnetometer system for magnetocardiogram mapping. Superconductor Science and Technology, 2003, 16, 1383-1386.	1.8	9
103	Magnetocardiograph based on a 4Å—4 array of high-temperature superconducting quantum interference devices. Applied Physics Letters, 2003, 82, 4833-4835.	1.5	14
104	Detection of spatial repolarization abnormalities in patients with LQT1 and LQT2 forms of congenital long-QT syndrome. Physiological Measurement, 2002, 23, 603-614.	1.2	15
105	A Superconducting Quantum Interference Device Magnetometer with a Room-Temperature Pickup Coil for Measuring Impedance Magnetocardiograms. Japanese Journal of Applied Physics, 2002, 41, 596-599.	0.8	21
106	Prenatal diagnosis of long QT syndrome using magnetocardiography: a case report and review of the literature. Prenatal Diagnosis, 2002, 22, 198-200.	1.1	43
107	A Case of Fetal Complete Heart Block Recorded by Magnetocardiography, Ultrasonography and Direct Fetal Electrocardiography. Fetal Diagnosis and Therapy, 2001, 16, 38-41.	0.6	25
108	Prenatal diagnosis of QT prolongation by fetal magnetocardiogram - use of QRS and T-wave current-arrow maps. Physiological Measurement, 2001, 22, 377-387.	1.2	30

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109	A Fetal Wolff-Parkinson-White Syndrome Diagnosed Prenatally by Magnetocardiography. Fetal Diagnosis and Therapy, 2001, 16, 215-217.	0.6	26
110	Detection of Cardiac Hypertrophy in the Fetus by Approximation of the Current Dipole Using Magnetocardiography. Pediatric Research, 2001, 50, 242-245.	1.1	38
111	Simplified Magnetically Shielded Cylinder Using Flexible Magnetic Sheets for High-Tc Superconducting Quantum Interference Device Magnetocardiogram Systems. Japanese Journal of Applied Physics, 2001, 40, L1026-L1028.	0.8	9
112	An iso-integral mapping technique using magnetocardiogram, and its possible use for diagnosis of ischemic heart disease. International Journal of Cardiovascular Imaging, 2000, 16, 55-66.	0.2	55
113	A vector fetal magnetocardiogram system with high sensitivity. Review of Scientific Instruments, 1999, 70, 4702-4705.	0.6	23
114	Prenatal diagnosis of long QT syndrome using fetal magnetocardiography. , 1999, 19, 677-680.		85
115	Reconstruction of two-dimensional current distribution from tangential MCG measurement. Physics in Medicine and Biology, 1996, 41, 1705-1716.	1.6	20
116	Liquid Phase Immunoassay Using AC Susceptibility Measurement of Magnetic Markers. Applied Physics Express, 0, 2, 037001.	1.1	16
117	Projection of Damaged Visual and Language Regions on Low Trail Making Test Part-B Performance in Stroke Patients. Frontiers in Neurology, 0, 13, .	1.1	3