

# Masaki Sekino

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

67

papers

2,392

citations

16

h-index

48

g-index

75

ext. papers

3,012

ext. citations

6.3

avg, IF

4.77

L-index

#	Paper	IF	Citations
67	Application of Magnetic Nanoparticles for Rapid Detection and In Situ Diagnosis in Clinical Oncology.. <i>Cancers</i> , <b>2022</b> , 14,	6.6	4
66	DeepSPIO: Super Paramagnetic Iron Oxide Particle Quantification Using Deep Learning in Magnetic Resonance Imaging. <i>IEEE Transactions on Pattern Analysis and Machine Intelligence</i> , <b>2022</b> , 44, 143-153	13.3	2
65	Hands-Free Wearable Electrolarynx using Linear Predictive Coding Residual Waves and Listening Evaluation. <i>Advanced Biomedical Engineering</i> , <b>2022</b> , 11, 68-75	0.7	1
64	Investigation of the Difference in Temperature Response of Skin to Heat Input in Judging Blood Flow Disorders. <i>IEEJ Transactions on Fundamentals and Materials</i> , <b>2022</b> , 142, 263-268	0.2	
63	Application of Magnetic Nanoparticle in Cancer Surgery. <i>IEEJ Transactions on Fundamentals and Materials</i> , <b>2022</b> , 142, 236-242	0.2	
62	Passive shimming of magnetically shielded room using ferromagnetic plates. <i>IEEE Transactions on Magnetics</i> , <b>2021</b> , 1-1	2	0
61	Intraoperative laparoscopic detection of sentinel lymph nodes with indocyanine green and superparamagnetic iron oxide in a swine gallbladder cancer model. <i>PLoS ONE</i> , <b>2021</b> , 16, e0248531	3.7	2
60	Direct Impact of Motor Cortical Stimulation on the Blood Oxygen-level Dependent Response in Rats. <i>Magnetic Resonance in Medical Sciences</i> , <b>2021</b> , 20, 83-90	2.9	
59	. <i>IEEE Transactions on Magnetics</i> , <b>2021</b> , 57, 1-4	2	3
58	Magnetic Field Generation System of the Magnetic Probe With Diamond Quantum Sensor and Ferromagnetic Materials for the Detection of Sentinel Lymph Nodes With Magnetic Nanoparticles. <i>IEEE Transactions on Magnetics</i> , <b>2021</b> , 57, 1-5	2	2
57	Numerical and Experimental Evaluation of Magnetic Markers for Localized Tumor Excision With a Handheld Magnetic Probe. <i>IEEE Transactions on Magnetics</i> , <b>2021</b> , 57, 1-5	2	
56	MR lymphography with superparamagnetic iron oxide for sentinel lymph node mapping of N0 early oral cancer: A pilot study. <i>Dentomaxillofacial Radiology</i> , <b>2021</b> , 50, 20200333	3.9	1
55	Magnetically Induced Temporal Interference for Focal and Deep-Brain Stimulation. <i>Frontiers in Human Neuroscience</i> , <b>2021</b> , 15, 693207	3.3	3
54	Flexible Light Sources. <i>Advances in Experimental Medicine and Biology</i> , <b>2021</b> , 1293, 601-612	3.6	
53	Figure-Eight Coils for Magnetic Stimulation: From Focal Stimulation to Deep Stimulation.. <i>Frontiers in Human Neuroscience</i> , <b>2021</b> , 15, 805971	3.3	0
52	Identification of Metal-Binding Peptides and Their Conjugation onto Nanoparticles of Superparamagnetic Iron Oxides and Liposomes. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2020</b> , 12, 24623-24634 <sup>3</sup>	9.5	
51	Moving a neodymium magnet promotes the migration of a magnetic tracer and increases the monitoring counts on the skin surface of sentinel lymph nodes in breast cancer. <i>BMC Medical Imaging</i> , <b>2020</b> , 20, 58	2.9	3

50	Development of Magnetic Probe for Sentinel Lymph Node Detection in Laparoscopic Navigation for Gastric Cancer Patients. <i>Scientific Reports</i> , <b>2020</b> , 10, 1798	4.9	9
49	Magnetic characteristics of a magnetic marker for localized tumor excision with a handheld magnetic probe. <i>AIP Advances</i> , <b>2020</b> , 10, 015055	1.5	1
48	Cavity-shaped magnet for highly sensitive magnetic detection of magnetic nanoparticles in breast cancer patients. <i>AIP Advances</i> , <b>2020</b> , 10, 015010	1.5	
47	Magnetometer with nitrogen-vacancy center in a bulk diamond for detecting magnetic nanoparticles in biomedical applications. <i>Scientific Reports</i> , <b>2020</b> , 10, 2483	4.9	28
46	Development of an automatic magnetic immunostaining system for rapid intraoperative diagnosis of cancer metastasis. <i>AIP Advances</i> , <b>2020</b> , 10, 015106	1.5	2
45	Development of an optimized dome-shaped magnet for rapid magnetic immunostaining. <i>AIP Advances</i> , <b>2020</b> , 10, 025317	1.5	3
44	Measurement of optical reflection and temperature changes after blood occlusion using a wearable device. <i>Scientific Reports</i> , <b>2020</b> , 10, 11491	4.9	4
43	Ultraflexible organic light-emitting diodes for optogenetic nerve stimulation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2020</b> , 117, 21138-21146	11.5	20
42	Establishment of a model of sentinel lymph node metastasis using immunodeficient swine. <i>Scientific Reports</i> , <b>2019</b> , 9, 7923	4.9	3
41	Magnetically Promoted Rapid Immunofluorescence Staining for Frozen Tissue Sections. <i>Journal of Histochemistry and Cytochemistry</i> , <b>2019</b> , 67, 575-587	3.4	8
40	Multicenter clinical trial on sentinel lymph node biopsy using superparamagnetic iron oxide nanoparticles and a novel handheld magnetic probe. <i>Journal of Surgical Oncology</i> , <b>2019</b> , 120, 1391-1396	2.8	27
39	Electromagnetic and mechanical characterization of a flexible coil for transcranial magnetic stimulation. <i>AIP Advances</i> , <b>2019</b> , 9, 035335	1.5	3
38	Ultrasoft electronics to monitor dynamically pulsing cardiomyocytes. <i>Nature Nanotechnology</i> , <b>2019</b> , 14, 156-160	28.7	115
37	Effects of 7 T static magnetic fields on the expression of biological markers and the formation of bone in rats. <i>Bioelectromagnetics</i> , <b>2019</b> , 40, 16-26	1.6	5
36	A Monolithically Processed Rectifying Pixel for High-Resolution Organic Imagers. <i>Advanced Electronic Materials</i> , <b>2018</b> , 4, 1700601	6.4	15
35	Handheld magnetic probe with permanent magnet and Hall sensor for identifying sentinel lymph nodes in breast cancer patients. <i>Scientific Reports</i> , <b>2018</b> , 8, 1195	4.9	31
34	Self-Adhesive and Ultra-Conformable, Sub-300 nm Dry Thin-Film Electrodes for Surface Monitoring of Biopotentials. <i>Advanced Functional Materials</i> , <b>2018</b> , 28, 1803279	15.6	81
33	Combined use of fluorescence with a magnetic tracer and dilution effect upon sentinel node localization in a murine model. <i>International Journal of Nanomedicine</i> , <b>2018</b> , 13, 2427-2433	7.3	4

32	Sensors: A Monolithically Processed Rectifying Pixel for High-Resolution Organic Imagers (Adv. Electron. Mater. 6/2018). <i>Advanced Electronic Materials</i> , <b>2018</b> , 4, 1870029	6.4	
31	Self-powered ultra-flexible electronics via nano-grating-patterned organic photovoltaics. <i>Nature</i> , <b>2018</b> , 561, 516-521	50.4	468
30	Nonthrombogenic, stretchable, active multielectrode array for electroanatomical mapping. <i>Science Advances</i> , <b>2018</b> , 4, eaau2426	14.3	89
29	Development of device for quantifying magnetic nanoparticle tracers accumulating in sentinel lymph nodes. <i>AIP Advances</i> , <b>2018</b> , 8, 056713	1.5	9
28	Antithrombotic Protein Filter Composed of Hybrid Tissue-Fabric Material has a Long Lifetime. <i>Annals of Biomedical Engineering</i> , <b>2017</b> , 45, 1352-1364	4.7	2
27	A magnetic probe equipped with small-tip permanent magnet for sentinel lymph node biopsy. <i>AIP Advances</i> , <b>2017</b> , 7, 056713	1.5	5
26	Spatial resolution and maximum compensation factor of two-dimensional selective excitation pulses for MRI of objects containing conductive implants. <i>AIP Advances</i> , <b>2017</b> , 7, 056726	1.5	
25	Three-dimensional sensitivity mapping of a handheld magnetic probe for sentinel lymph node biopsy. <i>AIP Advances</i> , <b>2017</b> , 7, 056720	1.5	7
24	Transparent, conformable, active multielectrode array using organic electrochemical transistors. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2017</b> , 114, 10554-10559	11.5	133
23	Ultraflexible Transparent Oxide/Metal/Oxide Stack Electrode with Low Sheet Resistance for Electrophysiological Measurements. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2017</b> , 9, 34744-34750	9.5	21
22	Multipoint Tissue Circulation Monitoring with a Flexible Optical Probe. <i>Scientific Reports</i> , <b>2017</b> , 7, 9643	4.9	6
21	Inflammation-free, gas-permeable, lightweight, stretchable on-skin electronics with nanomeshes. <i>Nature Nanotechnology</i> , <b>2017</b> , 12, 907-913	28.7	555
20	Single laser to multiple optical fiber device for optogenetics-based epidural spinal cord stimulation <b>2017</b> ,		2
19	Integration of Organic Electrochemical and Field-Effect Transistors for Ultraflexible, High Temporal Resolution Electrophysiology Arrays. <i>Advanced Materials</i> , <b>2016</b> , 28, 9722-9728	24	101
18	Field-Effect Transistors: Integration of Organic Electrochemical and Field-Effect Transistors for Ultraflexible, High Temporal Resolution Electrophysiology Arrays (Adv. Mater. 44/2016). <i>Advanced Materials</i> , <b>2016</b> , 28, 9869-9869	24	2
17	Ultraflexible organic amplifier with biocompatible gel electrodes. <i>Nature Communications</i> , <b>2016</b> , 7, 114257.4	57.4	139
16	Quantification of susceptibility change at high-concentrated SPIO-labeled target by characteristic phase gradient recognition. <i>Magnetic Resonance Imaging</i> , <b>2016</b> , 34, 552-61	3.3	1
15	Magnetic sentinel lymph node biopsy in a murine tumour model. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , <b>2016</b> , 12, 1045-1052	6	2

14	Ultraflexible, large-area, physiological temperature sensors for multipoint measurements. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2015</b> , 112, 14533-8	11.5	247
13	Eccentric figure-eight coils for transcranial magnetic stimulation. <i>Bioelectromagnetics</i> , <b>2015</b> , 36, 55-65	1.6	11
12	Two-dimensional magnetic susceptibility mapping of long objects by magnetic resonance imaging. <i>International Journal of Applied Electromagnetics and Mechanics</i> , <b>2014</b> , 45, 817-823	0.4	
11	Development of a SQUID system for ultralow-field MRI measurement. <i>International Journal of Applied Electromagnetics and Mechanics</i> , <b>2014</b> , 45, 771-778	0.4	
10	A strain-absorbing design for tissue-machine interfaces using a tunable adhesive gel. <i>Nature Communications</i> , <b>2014</b> , 5, 5898	17.4	106
9	An MRI-compatible, ultra-thin, flexible stimulator array for functional neuroimaging by direct stimulation of the rat brain. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , <b>2014</b> , 2014, 4702-5	0.9	2
8	Estimation of Local Magnetic Fields in the Rat Brain based on Multichannel Potential Recordings. <i>IEEJ Transactions on Fundamentals and Materials</i> , <b>2013</b> , 133, 376-382	0.2	
7	Electromagnetic Design of 10 MW Class Fully Superconducting Wind Turbine Generators. <i>IEEE Transactions on Applied Superconductivity</i> , <b>2012</b> , 22, 5201904-5201904	1.8	68
6	A Coupled FE Phase-Domain Model for Superconducting Synchronous Machine. <i>IEEE Transactions on Applied Superconductivity</i> , <b>2012</b> , 22, 5200804-5200804	1.8	5
5	Eccentric figure-eight magnetic stimulator coils <b>2012</b> ,		1
4	Electromagnetic characteristics of eccentric figure-eight coils for transcranial magnetic stimulation: A numerical study. <i>Journal of Applied Physics</i> , <b>2012</b> , 111, 07B322	2.5	6
3	Magnetic Shielding Characteristics of Multiple Bulk Superconductors for Higher Field Applications. <i>IEEE Transactions on Applied Superconductivity</i> , <b>2011</b> , 21, 1584-1587	1.8	5
2	Electromagnetic design study of 10 MW-class wind turbine generators using circular superconducting field coils <b>2011</b> ,		8
1	Virus Detection using Second Harmonics of Magnetic Nanoparticles. <i>IEEJ Transactions on Electrical and Electronic Engineering</i> ,	1	3