

# Makito Haruta

## List of Publications by Year in descending order

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Version: 2024-02-01

82  
papers

650  
citations

623734

14  
h-index

642732

23  
g-index

83  
all docs

83  
docs citations

83  
times ranked

448  
citing authors

#	ARTICLE	IF	CITATIONS
1	Lensless dual-color fluorescence imaging device using hybrid filter. Japanese Journal of Applied Physics, 2022, 61, SC1020.	1.5	6
2	Polarization Image Sensor for Highly Sensitive Polarization Modulation Imaging Based on Stacked Polarizers. IEEE Transactions on Electron Devices, 2022, 69, 2924-2931.	3.0	13
3	Investigating the Influence of GABA Neurons on Dopamine Neurons in the Ventral Tegmental Area Using Optogenetic Techniques. International Journal of Molecular Sciences, 2022, 23, 1114.	4.1	6
4	Optical Biosensors: Implantable Multimodal Devices in Freely Moving Rodents. , 2022, , 143-157.		0
5	Modular head-mounted cortical imaging device for chronic monitoring of intrinsic signals in mice. Journal of Biomedical Optics, 2022, 27, .	2.6	4
6	Enhancing infrared color reproducibility through multispectral image processing using RGB and three infrared channels. Optical Engineering, 2022, 61, .	1.0	0
7	Establishment of meteoropathy model mice. Proceedings for Annual Meeting of the Japanese Pharmacological Society, 2021, 94, 1-O-C1-1.	0.0	1
8	Micro-LED Array-Based Photo-Stimulation Devices for Optogenetics in Rat and Macaque Monkey Brains. IEEE Access, 2021, 9, 127937-127949.	4.2	11
9	CMOS-Based Neural Interface Device for Optogenetics. Advances in Experimental Medicine and Biology, 2021, 1293, 585-600.	1.6	1
10	Optical Powering Platform for Ultra-Small Implantable Devices. IEJ Transactions on Sensors and Micromachines, 2021, 141, 63-70.	0.1	0
11	Near-infrared fundus camera with a patterned interference filter for the retinal scattering detection. Japanese Journal of Applied Physics, 2021, 60, SBBL07.	1.5	3
12	Image Sensor with Hybrid Emission Filter for &lt;i>in-vivo</i> Fluorescent Imaging. IEJ Transactions on Sensors and Micromachines, 2021, 141, 71-76.	0.1	2
13	Miniaturized LED light source with an excitation filter for fluorescent imaging. Japanese Journal of Applied Physics, 2021, 60, SBBG07.	1.5	4
14	Wearable and Battery-Free Health-Monitoring Devices With Optical Power Transfer. IEEE Sensors Journal, 2021, 21, 9402-9412.	4.7	14
15	Image sensor with hybrid emission filter for in vivo fluorescent imaging. Electronics and Communications in Japan, 2021, 104, e12313.	0.5	1
16	Simultaneous CMOS-Based Imaging of Calcium Signaling of the Central Amygdala and the Dorsal Raphe Nucleus During Nociception in Freely Moving Mice. Frontiers in Neuroscience, 2021, 15, 667708.	2.8	10
17	Randles Circuit Model for Characterizing a Porous Stimulating Electrode of the Retinal Prosthesis. IEJ Transactions on Sensors and Micromachines, 2021, 141, 134-140.	0.1	2
18	Self-Reset Image Sensor With a Signal-to-Noise Ratio Over 70 dB and Its Application to Brain Surface Imaging. Frontiers in Neuroscience, 2021, 15, 667932.	2.8	5

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19	Randles circuit model for characterizing a porous stimulating electrode of the retinal prosthesis. Electronics and Communications in Japan, 2021, 104, e12324.	0.5	0
20	AC power supply circuit architecture for a miniaturised retinal prosthesis device. Journal of Engineering, 2021, 2021, 546-551.	1.1	0
21	Honeycomb-type retinal device using chemically derived iridium oxide biointerfaces. AIP Advances, 2021, 11, .	1.3	4
22	Comparison of the effects of Goreisan and loxoprofen on cerebral blood flow dynamics in meteoropathy model mice. Proceedings for Annual Meeting of the Japanese Pharmacological Society, 2021, 94, 3-P1-07.	0.0	1
23	Dual-color lensless fluorescence imaging by using a notch interference filter and absorption filters. , 2021, , .		2
24	Ultrasmall compact CMOS imaging system for bioluminescence reporter-based live gene expression analysis. Journal of Biomedical Optics, 2021, 26, .	2.6	2
25	Implantable CMOS image sensor with a neural amplifier for simultaneous recording of optical and electrophysiological signals. , 2021, , .		3
26	Photoactivatable oncolytic adenovirus for optogenetic cancer therapy. Cell Death and Disease, 2020, 11, 570.	6.3	12
27	Miniaturized CMOS imaging device for implantable applications. , 2020, , .		0
28	Implantable Fluorescent CMOS Imaging Device. , 2020, , .		0
29	Fe <sub>2</sub> O <sub>3</sub> /MWCNTs modified microdialysis electrode for dopamine detection. Materials Research Express, 2020, 7, 015701.	1.6	9
30	Needle-Type Imager Sensor With Band-Pass Composite Emission Filter and Parallel Fiber-Coupled Laser Excitation. IEEE Transactions on Circuits and Systems I: Regular Papers, 2020, 67, 1082-1091.	5.4	17
31	Fabrication of thin composite emission filter for high-performance lens-free fluorescent imager. , 2020, , .		1
32	Image refocusing of miniature CMOS image sensor with angle-selective pixels. , 2020, , .		0
33	Spatial Resolution Improvement of Lensless Fluorescence Imaging Device with Hybrid Emission Filter. , 2020, , .		0
34	Implantable CMOS Fluorescent Imaging Devices. Brain Informatics and Health, 2020, , 129-145.	0.4	0
35	A Thin Composite Emission Filter and Fiber Coupled Laser Excitation for Implantable Fluorescence Imager Application. , 2019, , .		1
36	Wide field-of-view lensless fluorescence imaging device with hybrid bandpass emission filter. AIP Advances, 2019, 9, .	1.3	22

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37	Implantable CMOS image sensor with incident-angle-selective pixels. Electronics Letters, 2019, 55, 729-731.	1.0	19
38	Live Demonstration: Lensless Highly Sensitive Fluorescence Imaging. , 2019, , .		0
39	Propranolol prevents cerebral blood flow changes and pain-related behaviors in migraine model mice. Biochemical and Biophysical Research Communications, 2019, 508, 445-450.	2.1	7
40	Chronic brain blood-flow imaging device for a behavioral experiment using mice. Biomedical Optics Express, 2019, 10, 1557.	2.9	7
41	Lens-free Dual-color Fluorescent CMOS Image Sensor for Förster Resonance Energy Transfer Imaging. Sensors and Materials, 2019, 31, 2579.	0.5	9
42	Propranolol prevents changes in cerebral blood flow and pain-related behaviors in migraine model mice. Proceedings for Annual Meeting of the Japanese Pharmacological Society, 2019, 92, 2-P-043.	0.0	0
43	Fe and Co-doped (Ba, Ca)TiO <sub>3</sub> Perovskite as Potential Electrocatalysts for Glutamate Sensing. Engineering Journal, 2019, 23, 265-278.	1.0	2
44	1. Trends in Special Imaging Technologies. Kyokai Joho Imeji Zasshi/Journal of the Institute of Image Information and Television Engineers, 2019, 73, 237-242.	0.1	0
45	CMOS-based optical energy harvesting circuit for biomedical and Internet of Things devices. Japanese Journal of Applied Physics, 2018, 57, 04FM05.	1.5	10
46	1 mm <sup>3</sup> -sized optical neural stimulator based on CMOS integrated photovoltaic power receiver. AIP Advances, 2018, 8, .	1.3	46
47	Excitation and Emission Filters for Implantable Fluorescence Imaging Devices by Laser Lift-Off Process. , 2018, , .		0
48	Battery-Free. Sticker-Like, Device for Health Monitoring, Operated by Optical Power Transfer. , 2018, , .		1
49	Performance improvement and in vivo demonstration of a sophisticated retinal stimulator using smart electrodes with built-in CMOS microchips. Japanese Journal of Applied Physics, 2018, 57, 1002B3.	1.5	4
50	Highly sensitive lens-free fluorescence imaging device enabled by a complementary combination of interference and absorption filters. Biomedical Optics Express, 2018, 9, 4329.	2.9	47
51	Compact Lensless Fluorescence Counting System for Single Molecular Assay. IEEE Transactions on Biomedical Circuits and Systems, 2018, 12, 1177-1185.	4.0	2
52	Live Demonstration: IoT micronode with optical ID transmission capability operated by optical energy harvesting. , 2018, , .		0
53	Functional Validation of Intelligent Retinal Stimulator Using Microchip-embedded Smart Electrode. Sensors and Materials, 2018, , 167.	0.5	4
54	Electrochemical Evaluation of Geometrical Effect and Three-dimensionalized Effect of Iridium Oxide Electrodes Used for Retinal Stimulation. Sensors and Materials, 2018, , 213.	0.5	4

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55	Design Optimization of CMOS Control Circuit for Integrated Photovoltaic Power Transfer. Sensors and Materials, 2018, 30, 2343.	0.5	2
56	Implantable optogenetic device with CMOS IC technology for simultaneous optical measurement and stimulation. Japanese Journal of Applied Physics, 2017, 56, 057001.	1.5	7
57	On-chip cell analysis platform: Implementation of contact fluorescence microscopy in microfluidic chips. AIP Advances, 2017, 7, 095213.	1.3	22
58	Implantable Microimaging Device for Observing Brain Activities of Rodents. Proceedings of the IEEE, 2017, 105, 158-166.	21.8	35
59	Fluorescence imaging device with an ultra-thin micro-LED. , 2017, , .		0
60	Fabrication and in vivo demonstration of microchip-embedded smart electrode device for neural stimulation in retinal prosthesis. , 2017, , .		6
61	CMOS-based opto-electric neural interface devices for optogenetics. , 2017, , .		0
62	Automatic Determination of Blood Flow Velocity in Brain Microvessels in a Cerebral Infarction Model Mouse Using a Small Implantable CMOS Imaging Device. Advanced Biomedical Engineering, 2017, 6, 68-75.	0.6	1
63	Stimulator Design of Retinal Prosthesis. IEICE Transactions on Electronics, 2017, E100.C, 523-528.	0.6	8
64	Wireless image-data transmission from an implanted image sensor through a living mouse brain by intra body communication. Japanese Journal of Applied Physics, 2016, 55, 04EM03.	1.5	9
65	Optical communication with brain cells by means of an implanted duplex micro-device with optogenetics and Ca <sup>2+</sup> fluoroimaging. Scientific Reports, 2016, 6, 21247.	3.3	20
66	Hemodynamic imaging using an implantable self-reset image sensor. , 2016, , .		1
67	Implantable self-reset CMOS image sensor and its application to hemodynamic response detection in living mouse brain. Japanese Journal of Applied Physics, 2016, 55, 04EM02.	1.5	20
68	Implantable imaging device for brain functional imaging system using flavoprotein fluorescence. Japanese Journal of Applied Physics, 2016, 55, 03DF02.	1.5	20
69	An Implantable CMOS Image Sensor With Self-Reset Pixels for Functional Brain Imaging. IEEE Transactions on Electron Devices, 2016, 63, 215-222.	3.0	29
70	Intrinsic signal imaging of brain function using a small implantable CMOS imaging device. Japanese Journal of Applied Physics, 2015, 54, 04DL10.	1.5	17
71	Intravital fluorescence imaging of mouse brain using implantable semiconductor devices and epi-illumination of biological tissue. Biomedical Optics Express, 2015, 6, 1553.	2.9	29
72	Fluorescence imaging under background light with a self-reset complementary metal-oxide-semiconductor image sensor. Journal of Engineering, 2015, 2015, 328-330.	1.1	4

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73	Implantable semiconductor imaging devices for in vivo optical imaging of brain. , 2015, , .		0
74	Demonstration of implantable CMOS image sensors for functional brain imaging. , 2014, , .		1
75	An implantable image sensor with self-reset function for brain imaging. , 2014, , .		1
76	An implantable green fluorescence imaging device using absorption filters with high excitation light rejection ratio. , 2014, , .		3
77	An implantable CMOS device for blood-flow imaging during experiments on freely moving rats. Japanese Journal of Applied Physics, 2014, 53, 04EL05.	1.5	41
78	Functional brain fluorescence plurimetry in rat by implantable concatenated CMOS imaging system. Biosensors and Bioelectronics, 2014, 53, 31-36.	10.1	13
79	Noise performance of an implantable self-reset CMOS image sensor. , 2014, , .		0
80	Implantable CMOS imaging device with absorption filters for green fluorescence imaging. Proceedings of SPIE, 2014, , .	0.8	9
81	Development of a CMOS-based implantable device for wide-area brain functional imaging. , 2012, , .		0
82	Novel implantable imaging system for enabling simultaneous multiplanar and multipoint analysis for fluorescence potentiometry in the visual cortex. Biosensors and Bioelectronics, 2012, 38, 321-330.	10.1	33