

Makito Haruta

List of Publications by Year in descending order

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101
papers

972
citations

482844

16
h-index

488912

28
g-index

103
all docs

103
docs citations

103
times ranked

1181
citing authors

#	ARTICLE	IF	CITATIONS
1	PIK3CA mutation is an oncogenic aberration at advanced stages of oral squamous cell carcinoma. <i>Cancer Science</i> , 2006, 97, 1351-1358.	4.0	142
2	Technical Note: Characterization of custom 3D printed multimodality imaging phantoms. <i>Medical Physics</i> , 2015, 42, 5913-5918.	2.9	62
3	Highly sensitive lens-free fluorescence imaging device enabled by a complementary combination of interference and absorption filters. <i>Biomedical Optics Express</i> , 2018, 9, 4329.	3.0	53
4	1 mm ³ -sized optical neural stimulator based on CMOS integrated photovoltaic power receiver. <i>AIP Advances</i> , 2018, 8, .	1.3	50
5	An implantable CMOS device for blood-flow imaging during experiments on freely moving rats. <i>Japanese Journal of Applied Physics</i> , 2014, 53, 04EL05.	1.6	41
6	Implantable Microimaging Device for Observing Brain Activities of Rodents. <i>Proceedings of the IEEE</i> , 2017, 105, 158-166.	26.4	39
7	Novel implantable imaging system for enabling simultaneous multiplanar and multipoint analysis for fluorescence potentiometry in the visual cortex. <i>Biosensors and Bioelectronics</i> , 2012, 38, 321-330.	10.4	33
8	Intravital fluorescence imaging of mouse brain using implantable semiconductor devices and epi-illumination of biological tissue. <i>Biomedical Optics Express</i> , 2015, 6, 1553.	3.0	31
9	An Implantable CMOS Image Sensor With Self-Reset Pixels for Functional Brain Imaging. <i>IEEE Transactions on Electron Devices</i> , 2016, 63, 215-222.	3.2	30
10	Acute ataxia in paediatric emergency departments: a multicentre Italian study. <i>Archives of Disease in Childhood</i> , 2019, 104, 768-774.	2.8	28
11	Wide field-of-view lensless fluorescence imaging device with hybrid bandpass emission filter. <i>AIP Advances</i> , 2019, 9, .	1.3	25
12	On-chip cell analysis platform: Implementation of contact fluorescence microscopy in microfluidic chips. <i>AIP Advances</i> , 2017, 7, .	1.3	24
13	Optical communication with brain cells by means of an implanted duplex micro-device with optogenetics and Ca ²⁺ fluoroimaging. <i>Scientific Reports</i> , 2016, 6, 21247.	3.4	22
14	Implantable imaging device for brain functional imaging system using flavoprotein fluorescence. <i>Japanese Journal of Applied Physics</i> , 2016, 55, 03DF02.	1.6	21
15	Implantable self-reset CMOS image sensor and its application to hemodynamic response detection in living mouse brain. <i>Japanese Journal of Applied Physics</i> , 2016, 55, 04EM02.	1.6	20
16	Needle-Type Imager Sensor With Band-Pass Composite Emission Filter and Parallel Fiber-Coupled Laser Excitation. <i>IEEE Transactions on Circuits and Systems I: Regular Papers</i> , 2020, 67, 1082-1091.	5.8	18
17	Wearable and Battery-Free Health-Monitoring Devices With Optical Power Transfer. <i>IEEE Sensors Journal</i> , 2021, 21, 9402-9412.	4.8	16
18	Polarization Image Sensor for Highly Sensitive Polarization Modulation Imaging Based on Stacked Polarizers. <i>IEEE Transactions on Electron Devices</i> , 2022, 69, 2924-2931.	3.2	14

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19	Functional brain fluorescence plurimetry in rat by implantable concatenated CMOS imaging system. <i>Biosensors and Bioelectronics</i> , 2014, 53, 31-36.	10.4	13
20	Twin-screw granulation: Understanding the mechanical properties from powder to tablets. <i>Powder Technology</i> , 2019, 341, 104-115.	4.3	13
21	Photoactivatable oncolytic adenovirus for optogenetic cancer therapy. <i>Cell Death and Disease</i> , 2020, 11, 570.	6.4	12
22	Micro-LED Array-Based Photo-Stimulation Devices for Optogenetics in Rat and Macaque Monkey Brains. <i>IEEE Access</i> , 2021, 9, 127937-127949.	4.4	12
23	CMOS-based optical energy harvesting circuit for biomedical and Internet of Things devices. <i>Japanese Journal of Applied Physics</i> , 2018, 57, 04FM05.	1.6	11
24	Simultaneous CMOS-Based Imaging of Calcium Signaling of the Central Amygdala and the Dorsal Raphe Nucleus During Nociception in Freely Moving Mice. <i>Frontiers in Neuroscience</i> , 2021, 15, 667708.	2.9	11
25	Implantable CMOS imaging device with absorption filters for green fluorescence imaging. <i>Proceedings of SPIE</i> , 2014, , .	1.0	10
26	The crystal and molecular structure of hexacyclo[10,3,1,02,10,03,7,06,16,09,14]hexadecane, an ethano-bridged diamantane. <i>Acta Crystallographica Section B: Structural Crystallography and Crystal Chemistry</i> , 1972, 28, 694-699.	0.4	9
27	Wireless image-data transmission from an implanted image sensor through a living mouse brain by intra body communication. <i>Japanese Journal of Applied Physics</i> , 2016, 55, 04EM03.	1.6	9
28	Fe ₂ O ₃ /MWCNTs modified microdialysis electrode for dopamine detection. <i>Materials Research Express</i> , 2020, 7, 015701.	1.7	9
29	Chronic brain blood-flow imaging device for a behavioral experiment using mice. <i>Biomedical Optics Express</i> , 2019, 10, 1557.	3.0	9
30	Lens-free Dual-color Fluorescent CMOS Image Sensor for Förster Resonance Energy Transfer Imaging. <i>Sensors and Materials</i> , 2019, 31, 2579.	0.6	9
31	Ein Fragebogen zur infertilitÄtsbedingten Belastung andrologischer Patienten. <i>Reproduktionsmedizin</i> , 2002, 18, 327-332.	0.1	8
32	Stimulator Design of Retinal Prosthesis. <i>IEICE Transactions on Electronics</i> , 2017, E100.C, 523-528.	0.6	8
33	Propranolol prevents cerebral blood flow changes and pain-related behaviors in migraine model mice. <i>Biochemical and Biophysical Research Communications</i> , 2019, 508, 445-450.	2.2	8
34	Lensless dual-color fluorescence imaging device using hybrid filter. <i>Japanese Journal of Applied Physics</i> , 2022, 61, SC1020.	1.6	8
35	Investigating the Influence of GABA Neurons on Dopamine Neurons in the Ventral Tegmental Area Using Optogenetic Techniques. <i>International Journal of Molecular Sciences</i> , 2022, 23, 1114.	4.2	8
36	Implantable optogenetic device with CMOS IC technology for simultaneous optical measurement and stimulation. <i>Japanese Journal of Applied Physics</i> , 2017, 56, 057001.	1.6	7

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37	Fabrication and in vivo demonstration of microchip-embedded smart electrode device for neural stimulation in retinal prosthesis. , 2017, , .		6
38	Self-Reset Image Sensor With a Signal-to-Noise Ratio Over 70 dB and Its Application to Brain Surface Imaging. <i>Frontiers in Neuroscience</i> , 2021, 15, 667932.	2.9	6
39	Modular head-mounted cortical imaging device for chronic monitoring of intrinsic signals in mice. <i>Journal of Biomedical Optics</i> , 2022, 27, .	2.8	6
40	Ultrasmall compact CMOS imaging system for bioluminescence reporter-based live gene expression analysis. <i>Journal of Biomedical Optics</i> , 2021, 26, .	2.8	5
41	Experimental Study on Fire Resistance of Concrete Beams Made with Iron Tailings Sand. <i>Buildings</i> , 2022, 12, 1816.	3.2	5
42	An implantable green fluorescence imaging device using absorption filters with high excitation light rejection ratio. , 2014, , .		4
43	Performance improvement and in vivo demonstration of a sophisticated retinal stimulator using smart electrodes with built-in CMOS microchips. <i>Japanese Journal of Applied Physics</i> , 2018, 57, 1002B3.	1.6	4
44	Near-infrared fundus camera with a patterned interference filter for the retinal scattering detection. <i>Japanese Journal of Applied Physics</i> , 2021, 60, SBBL07.	1.6	4
45	Miniaturized LED light source with an excitation filter for fluorescent imaging. <i>Japanese Journal of Applied Physics</i> , 2021, 60, SBBG07.	1.6	4
46	Honeycomb-type retinal device using chemically derived iridium oxide biointerfaces. <i>AIP Advances</i> , 2021, 11, .	1.3	4
47	Fluorescence imaging under background light with a self-reset complementary metal-oxide-semiconductor image sensor. <i>Journal of Engineering</i> , 2015, 2015, 328-330.	1.1	4
48	Functional Validation of Intelligent Retinal Stimulator Using Microchip-embedded Smart Electrode. <i>Sensors and Materials</i> , 2018, , 167.	0.6	4
49	Electrochemical Evaluation of Geometrical Effect and Three-dimensionalized Effect of Iridium Oxide Electrodes Used for Retinal Stimulation. <i>Sensors and Materials</i> , 2018, , 213.	0.6	4
50	Implantable CMOS image sensor with a neural amplifier for simultaneous recording of optical and electrophysiological signals. , 2021, , .		3
51	Thin and Scalable Hybrid Emission Filter via Plasma Etching for Low-Invasive Fluorescence Detection. <i>Sensors</i> , 2023, 23, 3695.	4.0	3
52	Compact Lensless Fluorescence Counting System for Single Molecular Assay. <i>IEEE Transactions on Biomedical Circuits and Systems</i> , 2018, 12, 1177-1185.	4.5	2
53	Image Sensor with Hybrid Emission Filter for <i>in-vivo</i> Fluorescent Imaging. <i>IEEE Transactions on Sensors and Micromachines</i> , 2021, 141, 71-76.	0.1	2
54	Image sensor with hybrid emission filter for in vivo fluorescent imaging. <i>Electronics and Communications in Japan</i> , 2021, 104, e12313.	0.5	2

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55	Randles Circuit Model for Characterizing a Porous Stimulating Electrode of the Retinal Prosthesis. IEEJ Transactions on Sensors and Micromachines, 2021, 141, 134-140.	0.1	2
56	Design Optimization of CMOS Control Circuit for Integrated Photovoltaic Power Transfer. Sensors and Materials, 2018, 30, 2343.	0.6	2
57	Dual-color lensless fluorescence imaging by using a notch interference filter and absorption filters. , 2021, , .		2
58	Enhancing infrared color reproducibility through multispectral image processing using RGB and three infrared channels. Optical Engineering, 2022, 61, .	1.0	2
59	Electrochemical activities of Fe ₂ O ₃ -modified microelectrode for dopamine detection using fast-scan cyclic voltammetry. AIP Advances, 2023, 13, 025026.	1.3	2
60	Preparation, Characterization and Catalytic Performance of La-SO ₄ ²⁻ /SBA-15 in Esterification of Acetic Acid with n-Butanol. Chemical Research in Chinese Universities, 2008, 24, 357-361.	2.7	1
61	Demonstration of implantable CMOS image sensors for functional brain imaging. , 2014, , .		1
62	An implantable image sensor with self-reset function for brain imaging. , 2014, , .		1
63	Hemodynamic imaging using an implantable self-reset image sensor. , 2016, , .		1
64	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
65	Battery-Free. Sticker-Like, Device for Health Monitoring, Operated by Optical Power Transfer. , 2018, , .		1
66	A Thin Composite Emission Filter and Fiber Coupled Laser Excitation for Implantable Fluorescence Imager Application. , 2019, , .		1
67	æ°—è± ç—...ãfçãf†ãf«ãfžã, ã,1ã@ççç««. Proceedings for Annual Meeting of the Japanese Pharmacological Society, 2021, 94, 1-O-C		1
68	CMOS-Based Neural Interface Device for Optogenetics. Advances in Experimental Medicine and Biology, 2021, 1293, 585-600.	0.0	1
69	æ°—è± ç—...ãfçãf†ãf«ãfžã, ã,1ã@è,,3è çæµã«æ...ã«ã³/4ãªã,«æº”è«æ•žãã,‰ãããããã,ã,1/2ãf—ãfãf•ã,šãf³ãããããæžœæ”è¼f. Proc		1
70	Fabrication of thin composite emission filter for high-performance lens-free fluorescent imager. , 2020, , .		1
71	Pernkopfâ€™s atlas: Should unethically obtained life-saving data be discarded?. Indian Journal of Medical Ethics, 2020, 05, 319-326.	0.4	1
72	Implantable AC-driven CMOS chip for distributed multichip retinal prosthesis capable of high-rate stimulation. Japanese Journal of Applied Physics, 2023, 62, SC1077.	1.6	1

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73	Exposure Time Control Method for Higher Intermediate Frequency in Optical Heterodyne Imaging and Its Application to Electric-Field Imaging Based on Electro-Optic Effect. <i>Sensors</i> , 2024, 24, 1249.	4.0	1
74	Development of a CMOS-based implantable device for wide-area brain functional imaging. , 2012, , .		0
75	Noise performance of an implantable self-reset CMOS image sensor. , 2014, , .		0
76	EP-1779: Margins to compensate for deformity of the prostate/seminal vesicle in IGRT using fiducial-markers. <i>Radiotherapy and Oncology</i> , 2016, 119, S834.	0.6	0
77	Fluorescence imaging device with an ultra-thin micro-LED. , 2017, , .		0
78	CMOS-based opto-electric neural interface devices for optogenetics. , 2017, , .		0
79	Excitation and Emission Filters for Implantable Fluorescence Imaging Devices by Laser Lift-Off Process. , 2018, , .		0
80	Live Demonstration: IoT micronode with optical ID transmission capability operated by optical energy harvesting. , 2018, , .		0
81	Live Demonstration: Lensless Highly Sensitive Fluorescence Imaging. , 2019, , .		0
82	THEORETICAL INVESTIGATION OF O_{2} AND $H_{2}O$ CO-ADSORPTION ON $Cu_{m}Co_{n}O_{m+n-2}$ CLUSTERS. <i>Surface Review and Letters</i> , 2019, 26, 1950064.	1.2	0
83	Miniaturized CMOS imaging device for implantable applications. , 2020, , .		0
84	Implantable Fluorescent CMOS Imaging Device. , 2020, , .		0
85	Optical Powering Platform for Ultra-Small Implantable Devices. <i>IEEJ Transactions on Sensors and Micromachines</i> , 2021, 141, 63-70.	0.1	0
86	Randles circuit model for characterizing a porous stimulating electrode of the retinal prosthesis. <i>Electronics and Communications in Japan</i> , 2021, 104, e12324.	0.5	0
87	AC power supply circuit architecture for a miniaturised retinal prosthesis device. <i>Journal of Engineering</i> , 2021, 2021, 546-551.	1.1	0
88	Implantable semiconductor imaging devices for in vivo optical imaging of brain. , 2015, , .		0
89	Propranolol prevents changes in cerebral blood flow and pain-related behaviors in migraine model mice. <i>Proceedings for Annual Meeting of the Japanese Pharmacological Society</i> , 2019, 92, 2-P-043.	0.0	0
90	Image refocusing of miniature CMOS image sensor with angle-selective pixels. , 2020, , .		0

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91	Spatial Resolution Improvement of Lensless Fluorescence Imaging Device with Hybrid Emission Filter. , 2020, , .		0
92	Implantable CMOS Fluorescent Imaging Devices. Brain Informatics and Health, 2020, , 129-145.	0.0	0
93	Optical Biosensors: Implantable Multimodal Devices in Freely Moving Rodents. , 2021, , 1-15.		0
94	Optical Biosensors: Implantable Multimodal Devices in Freely Moving Rodents. , 2022, , 143-157.		0
95	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
96	A flexible retinal device with CMOS smart electrodes fabricated on parylene C thin-film and bioceramic substrate. Japanese Journal of Applied Physics, 0, , .	1.6	0
97	THz near-field intensity distribution imaging in the 0.3 THz band using a highly sensitive polarization CMOS image sensor using a 0.35 μ m CMOS process. Japanese Journal of Applied Physics, 2024, 63, 03SP66.	1.6	0
98	Demonstration of multi-point stimulation with AC-driven CMOS chips for retinal prosthesis. Japanese Journal of Applied Physics, 2024, 63, 03SP22.	1.6	0
99	Inculcating Algebra Properties in the Context of Image Processing. , 2023, , .		0
100	TCTAP C-180 Optical Coherence Tomography Guided Management of Calcific Nodule With Intravascular Lithotripsy. Journal of the American College of Cardiology, 2024, 83, S349-S350.	5.6	0
101	Millimeter-Wave Band Electro-Optical Imaging System Using Polarization CMOS Image Sensor and Amplified Optical Local Oscillator Source. Sensors, 2024, 24, 4138.	4.0	0