

Kiyotaka Sasagawa

List of Publications by Year in descending order

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226
papers

2,015
citations

257450

24
h-index

330143

37
g-index

228
all docs

228
docs citations

228
times ranked

1320
citing authors

#	ARTICLE	IF	CITATIONS
1	Ultrafast all-optical switching by cross-absorption modulation in silicon wire waveguides. Optics Express, 2005, 13, 7298.	3.4	120
2	Implantable CMOS Biomedical Devices. Sensors, 2009, 9, 9073-9093.	3.8	85
3	Highly Efficient Third Harmonic Generation in a Periodically Poled MgO:LiNbO ₃ Disk Resonator. Applied Physics Express, 2009, 2, 122401.	2.4	59
4	CMOS-Based Multichip Networked Flexible Retinal Stimulator Designed for Image-Based Retinal Prosthesis. IEEE Transactions on Electron Devices, 2009, 56, 2577-2585.	3.0	57
5	Live Electrooptic Imaging System Based on Ultraparallel Photonic Heterodyne for Microwave Near-Fields. IEEE Transactions on Microwave Theory and Techniques, 2007, 55, 2782-2791.	4.6	52
6	Polarisation-analysing CMOS photosensor with monolithically embedded wire grid polariser. Electronics Letters, 2009, 45, 228.	1.0	50
7	Polarization-Analyzing CMOS Image Sensor With Monolithically Embedded Polarizer for Microchemistry Systems. IEEE Transactions on Biomedical Circuits and Systems, 2009, 3, 259-266.	4.0	49
8	Image sensor pixel with on-chip high extinction ratio polarizer based on 65-nm standard CMOS technology. Optics Express, 2013, 21, 11132.	3.4	49
9	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
10	S-band Tm ³⁺ -doped tellurite glass microsphere laser via a cascade process. Applied Physics Letters, 2004, 85, 4325.	3.3	46
11	1 mm ³ -sized optical neural stimulator based on CMOS integrated photovoltaic power receiver. AIP Advances, 2018, 8, .	1.3	46
12	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
13	CMOS image sensor-based implantable glucose sensor using glucose-responsive fluorescent hydrogel. Biomedical Optics Express, 2014, 5, 3859.	2.9	36
14	Implantable Microimaging Device for Observing Brain Activities of Rodents. Proceedings of the IEEE, 2017, 105, 158-166.	21.3	35
15	Real-time monitoring system of RF near-field distribution images on the basis of 64-channel parallel electro-optic data acquisition. IEICE Electronics Express, 2005, 2, 600-606.	0.8	34
16	Development of Complementary Metal Oxide Semiconductor Imaging Devices for Detecting Green Fluorescent Protein in the Deep Brain of a Freely Moving Mouse. Japanese Journal of Applied Physics, 2009, 48, 04C195.	1.5	33
17	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
18	Development and in vivo Demonstration of CMOS-Based Multichip Retinal Stimulator With Simultaneous Multisite Stimulation Capability. IEEE Transactions on Biomedical Circuits and Systems, 2010, 4, 445-453.	4.0	30

#	ARTICLE	IF	CITATIONS
19	Intravital fluorescence imaging of mouse brain using implantable semiconductor devices and epi-illumination of biological tissue. <i>Biomedical Optics Express</i> , 2015, 6, 1553.	2.9	29
20	An Implantable CMOS Image Sensor With Self-Reset Pixels for Functional Brain Imaging. <i>IEEE Transactions on Electron Devices</i> , 2016, 63, 215-222.	3.0	29
21	Nd-doped tellurite glass microsphere laser. <i>Electronics Letters</i> , 2002, 38, 1355.	1.0	27
22	Multimodal Complementary Metalâ€“Oxideâ€“Semiconductor Sensor Device for Imaging of Fluorescence and Electrical Potential in Deep Brain of Mouse. <i>Japanese Journal of Applied Physics</i> , 2010, 49, 01AG02.	1.5	25
23	Live Electrooptic Imaging of \$W\$-Band Waves. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2010, 58, 3011-3021.	4.6	25
24	Polarization Analyzing Image Sensor with On-Chip Metal Wire Grid Polarizer in 65-nm Standard Complementary Metal Oxide Semiconductor Process. <i>Japanese Journal of Applied Physics</i> , 2011, 50, 04DL01.	1.5	25
25	CMOS on-chip bio-imaging sensor with integrated micro light source array for optogenetics. <i>Electronics Letters</i> , 2012, 48, 312.	1.0	24
26	CMOS image sensor integrated with micro-LED and multielectrode arrays for the patterned photostimulation and multichannel recording of neuronal tissue. <i>Optics Express</i> , 2012, 20, 6097.	3.4	24
27	Potentiometric Dye Imaging for Pheochromocytoma and Cortical Neurons with a Novel Measurement System Using an Integrated Complementary Metalâ€“Oxideâ€“Semiconductor Imaging Device. <i>Japanese Journal of Applied Physics</i> , 2010, 49, 117001.	1.5	23
28	On-chip cell analysis platform: Implementation of contact fluorescence microscopy in microfluidic chips. <i>AIP Advances</i> , 2017, 7, 095213.	1.3	22
29	Wide field-of-view lensless fluorescence imaging device with hybrid bandpass emission filter. <i>AIP Advances</i> , 2019, 9, .	1.3	22
30	Real-time digital signal processing for live electro-optic imaging. <i>Optics Express</i> , 2009, 17, 15641.	3.4	21
31	â€œOptical communication with brain cells by means of an implanted duplex micro-device with optogenetics and Ca ²⁺ fluoroimagingâ€• <i>Scientific Reports</i> , 2016, 6, 21247.	3.3	20
32	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.	1.5	20
33	Implantable imaging device for brain functional imaging system using flavoprotein fluorescence. <i>Japanese Journal of Applied Physics</i> , 2016, 55, 03DF02.	1.5	20
34	Instantaneous Visualization of K-Band Electric Near-Fields by a Live Electrooptic Imaging System Based on Double Sideband Suppressed Carrier Modulation. <i>Journal of Lightwave Technology</i> , 2008, 26, 2782-2788.	4.6	19
35	Implantable CMOS image sensor with incidentâ€“angleâ€“selective pixels. <i>Electronics Letters</i> , 2019, 55, 729-731.	1.0	19
36	Modulation depth enhancement for highly sensitive electro-optic RF near-field measurement. <i>Electronics Letters</i> , 2006, 42, 1357.	1.0	18

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37	A CMOS image sensor with stacked photodiodes for lensless observation system of digital enzyme-linked immunosorbent assay. Japanese Journal of Applied Physics, 2014, 53, 04EL02.	1.5	18
38	Intrinsic signal imaging of brain function using a small implantable CMOS imaging device. Japanese Journal of Applied Physics, 2015, 54, 04DL10.	1.5	17
39	Implantable micro-optical semiconductor devices for optical theranostics in deep tissue. Applied Physics Express, 2016, 9, 047001.	2.4	17
40	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
41	Performance improvement and functionalization of an electrode array for retinal prosthesis by iridium oxide coating and introduction of smart-wiring technology using CMOS microchips. Sensors and Actuators A: Physical, 2014, 211, 27-37.	4.1	15
42	Low-Noise and High-Frequency Resolution Electrooptic Sensing of RF Near-Fields Using an External Optical Modulator. Journal of Lightwave Technology, 2008, 26, 1242-1248.	4.6	14
43	Sputtering condition optimization of sputtered IrOx and TiN stimulus electrodes for retinal prosthesis. IEEJ Transactions on Electrical and Electronic Engineering, 2013, 8, 310-312.	1.4	14
44	Wearable and Battery-Free Health-Monitoring Devices With Optical Power Transfer. IEEE Sensors Journal, 2021, 21, 9402-9412.	4.7	14
45	Smart electrode array device with CMOS multi-chip architecture for neural interface. Electronics Letters, 2012, 48, 1328.	1.0	13
46	Functional brain fluorescence plurimetry in rat by implantable concatenated CMOS imaging system. Biosensors and Bioelectronics, 2014, 53, 31-36.	10.1	13
47	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
48	Optical and Electric Multifunctional CMOS Image Sensors for On-Chip Biosensing Applications. Materials, 2011, 4, 84-102.	2.9	12
49	Complementary Metal-Oxide-Semiconductor Image Sensor with Microchamber Array for Fluorescent Bead Counting. Japanese Journal of Applied Physics, 2012, 51, 02BL01.	1.5	12
50	A high-precision CMOS biophotometry sensor with noise cancellation and two-step A/D conversion. , 2017, , .		12
51	Photoactivatable oncolytic adenovirus for optogenetic cancer therapy. Cell Death and Disease, 2020, 11, 570.	6.3	12
52	Complementary Metal-Oxide-Semiconductor Image Sensor with Microchamber Array for Fluorescent Bead Counting. Japanese Journal of Applied Physics, 2012, 51, 02BL01.	1.5	12
53	Image and/or Movie Analyses of 100-GHz Traveling Waves on the Basis of Real-Time Observation With a Live Electrooptic Imaging Camera. IEEE Transactions on Microwave Theory and Techniques, 2009, 57, 3373-3379.	4.6	11
54	Implantable Image Sensor with Light Guide Array Plate for Bioimaging. Japanese Journal of Applied Physics, 2010, 49, 04DL03.	1.5	11

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55	Micro-LED Array-Based Photo-Stimulation Devices for Optogenetics in Rat and Macaque Monkey Brains. IEEE Access, 2021, 9, 127937-127949.	4.2	11
56	Live Electro-Optic Imaging of Microwave Near-Fields via Ultra-Parallel Photonic Heterodyne. IEEE MTT-S International Microwave Symposium Digest IEEE MTT-S International Microwave Symposium, 2007, , .	0.0	10
57	Functional neuroimaging by using an implantable CMOS multimodal device in a freely-moving mouse. , 2011, , .		10
58	Wireless intra-brain communication for image transmission through mouse brain. , 2011, 2011, 2917-20.		10
59	Micro-light-pipe array with an excitation attenuation filter for lensless digital enzyme-linked immunosorbent assay. Japanese Journal of Applied Physics, 2016, 55, 03DF03.	1.5	10
60	CMOS-based optical energy harvesting circuit for biomedical and Internet of Things devices. Japanese Journal of Applied Physics, 2018, 57, 04FM05.	1.5	10
61	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
62	Implantable CMOS imaging device with absorption filters for green fluorescence imaging. Proceedings of SPIE, 2014, , .	0.8	9
63	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
64	Fe ₂ O ₃ /MWCNTs modified microdialysis electrode for dopamine detection. Materials Research Express, 2020, 7, 015701.	1.6	9
65	A polarisation-analysing CMOS image sensor for sensitive polarisation modulation detection. Electronics Letters, 2021, 57, 472-474.	1.0	9
66	Lens-free Dual-color Fluorescent CMOS Image Sensor for Förster Resonance Energy Transfer Imaging. Sensors and Materials, 2019, 31, 2579.	0.5	9
67	An implantable CMOS image sensor for monitoring deep brain activities of a freely moving mouse. , 2008, , .		8
68	Polarization-analyzing CMOS image sensor using monolithically embedded polarizer for microchemistry systems. , 2009, , .		8
69	Complementary Metal Oxide Semiconductor Based Multimodal Sensor for In vivo Brain Function Imaging with a Function for Simultaneous Cell Stimulation. Japanese Journal of Applied Physics, 2010, 49, 04DL02.	1.5	8
70	Dual-mode lensless imaging device for digital enzyme linked immunosorbent assay. , 2014, , .		8
71	Stimulator Design of Retinal Prosthesis. IEICE Transactions on Electronics, 2017, E100.C, 523-528.	0.6	8
72	Polarization Analyzing Image Sensor with On-Chip Metal Wire Grid Polarizer in 65-nm Standard Complementary Metal Oxide Semiconductor Process. Japanese Journal of Applied Physics, 2011, 50, 04DL01.	1.5	8

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73	Lithium Nibate Disk Sensor Using Photonic Heterodyning. Applied Physics Express, 0, 2, 082201.	2.4	7
74	CMOS Imaging Devices for Biomedical Applications. IEICE Transactions on Communications, 2011, E94.B, 2454-2460.	0.7	7
75	In Vitro Long-Term Performance Evaluation and Improvement in the Response Time of CMOS-Based Implantable Glucose Sensors. IEEE Design and Test, 2016, 33, 37-48.	1.2	7
76	Implantable optogenetic device with CMOS IC technology for simultaneous optical measurement and stimulation. Japanese Journal of Applied Physics, 2017, 56, 057001.	1.5	7
77	Next-generation Fundus Camera with Full Color Image Acquisition in 0-lx Visible Light by 1.12-micron Square Pixel, 4K, 30-fps BSI CMOS Image Sensor with Advanced NIR Multi-spectral Imaging System. , 2018, , .		7
78	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
79	Chronic brain blood-flow imaging device for a behavioral experiment using mice. Biomedical Optics Express, 2019, 10, 1557.	2.9	7
80	Sensitivity enhancement of electrooptic probing based on photonic downconversion by sideband management. , 0, , .		6
81	W-band live electro-optic imaging system. , 2008, , .		6
82	Polarisation analysing complementary metalâ€xide semiconductor image sensor in 65â€nm standard CMOS technology. Journal of Engineering, 2013, 2013, 45-47.	1.1	6
83	Fabrication and in vivo demonstration of microchip-embedded smart electrode device for neural stimulation in retinal prosthesis. , 2017, , .		6
84	Multispectral Near-infrared Imaging Technologies for Nonmydriatic Fundus Camera. , 2019, , .		6
85	Lensless dual-color fluorescence imaging device using hybrid filter. Japanese Journal of Applied Physics, 2022, 61, SC1020.	1.5	6
86	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
87	Control of microsphere lasing wavelength using âˆ•4-shifted distributed feedback resonator. Electronics Letters, 2003, 39, 1817.	1.0	5
88	Instantaneous Microwave Transmission Imaging of Aqueous Samples. , 2007, , .		5
89	CMOS-based smart-electrode-type retinal stimulator with bullet-shaped bulk Pt electrodes. , 2011, 2011, 6733-6.		5
90	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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91	[Paper] A CMOS Optoelectronic Neural Interface Device Based on an Image Sensor with On-chip Light Stimulation and Extracellular Neural Signal Recording for Optogenetics. IEE Transactions on Media Technology and Applications, 2013, 1, 184-189.	0.5	5
92	10,000 parallel heterodyne system for instantaneous photonics-based acquisition of near-fields images over microwave devices/circuits. , 2006, , .		4
93	Phase-resolved visualization of 100 GHz traveling electromagnetic waves by an EO imaging method. , 2008, , .		4
94	Real-time visualization of electromagnetic waves propagating in air using live electro-optic imaging technique. Optics Express, 2010, 18, 10029.	3.4	4
95	CMOS On-Chip Optoelectronic Neural Interface Device with Integrated Light Source for Optogenetics. Journal of Physics: Conference Series, 2012, 352, 012004.	0.4	4
96	A CMOS-based on-chip neural interface device equipped with integrated LED array for optogenetics. , 2012, 2012, 5146-9.		4
97	An in vitro demonstration of CMOS-based optoelectronic neural interface device for optogenetics. , 2013, 2013, 799-802.		4
98	Fabrication and functional demonstration of a smart electrode with a built-in CMOS microchip for neural stimulation of a retinal prosthesis. , 2015, 2015, 3355-8.		4
99	CMOS-Based Optoelectronic On-Chip Neural Interface Device. IEICE Transactions on Electronics, 2016, E99.C, 165-172.	0.6	4
100	A 17-bit 104-dB-DR High-Precision Low-Power CMOS Fluorescence Biosensor With Extended Counting ADC and Noise Cancellation. , 2018, , .		4
101	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
102	Miniaturized LED light source with an excitation filter for fluorescent imaging. Japanese Journal of Applied Physics, 2021, 60, SBBG07.	1.5	4
103	Honeycomb-type retinal device using chemically derived iridium oxide biointerfaces. AIP Advances, 2021, 11, .	1.3	4
104	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
105	Functional Validation of Intelligent Retinal Stimulator Using Microchip-embedded Smart Electrode. Sensors and Materials, 2018, , 167.	0.5	4
106	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
107	Modular head-mounted cortical imaging device for chronic monitoring of intrinsic signals in mice. Journal of Biomedical Optics, 2022, 27, .	2.6	4
108	W-band photonic signal generation with carrier and unnecessary sidebands suppressed by second harmonic generation. , 2008, , .		3

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109	Phase-evolving real-time visualization of 100 GHz traveling waves. , 2009, , .		3
110	Microchamber Device Equipped with Complementary Metal Oxide Semiconductor Optical Polarization Analyzer Chip for Micro Total Analysis System. Japanese Journal of Applied Physics, 2009, 48, 04C192.	1.5	3
111	Optimization of Sputtering Condition of IrOx Thin Film Stimulation Electrode for Retinal Prosthesis Application. Journal of Physics: Conference Series, 2012, 352, 012005.	0.4	3
112	Dual-layer metal-grid polarizer for polarization image sensor in 65-nm CMOS technology. , 2012, , .		3
113	A micro imaging device for measuring neural activities in the mouse deep brain with minimal invasiveness. , 2012, , .		3
114	A CMOS microchip-based retinal prosthetic device for large numbers of stimulation in wide area. , 2013, , .		3
115	CMOS sensor-based miniaturised in-line dual-functional optical analyser for high-speed, in situ chirality monitoring. Sensors and Actuators B: Chemical, 2013, 176, 1032-1037.	7.8	3
116	Implantable image sensor based on intra-brain image transmission. , 2013, 2013, 1863-6.		3
117	An implantable green fluorescence imaging device using absorption filters with high excitation light rejection ratio. , 2014, , .		3
118	High coupling efficiency contact imaging system having micro light pipe array for a digital enzyme-linked immunosorbent assay. , 2015, , .		3
119	An Energy-Efficient CMOS Biophotometry Sensor With Incremental DT-â [∧] ADC Conversion. , 2018, , .		3
120	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
121	Implantable CMOS image sensor with a neural amplifier for simultaneous recording of optical and electrophysiological signals. , 2021, , .		3
122	High efficiency third harmonic generation in PPMgLN disk resonator. , 2007, , .		2
123	Light-controlled retinal stimulation on rabbit using CMOS-based flexible multi-chip stimulator. , 2009, 2009, 646-9.		2
124	On-chip metal wire grid polarizer for CMOS image sensor based on 65-nm technology. , 2012, , .		2
125	Needle type CMOS imaging device for fluorescence imaging of deep brain activities with low invasiveness. , 2013, , .		2
126	Digital signal transmission from fully implantable CMOS image sensor in simulated body environment. Electronics Letters, 2014, 50, 851-853.	1.0	2

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127	CMOS-based implantable glucose monitoring device with improved performance and reduced invasiveness. <i>Electronics Letters</i> , 2015, 51, 738-740.	1.0	2
128	Neural stimulators for retinal prosthesis embedded with CMOS microchips. , 2016, , .		2
129	On-chip fluorescence detection system with high-density microchamber array based on CMOS image sensor. , 2016, , .		2
130	CMOS-based opto-electronic neural interface devices for optogenetics. , 2016, 2016, 6319-6322.		2
131	Implantable micro-sized image sensor for data transmission with intra-vital optical communication. <i>Journal of Engineering</i> , 2017, 2017, 4-6.	1.1	2
132	Compact Lensless Fluorescence Counting System for Single Molecular Assay. <i>IEEE Transactions on Biomedical Circuits and Systems</i> , 2018, 12, 1177-1185.	4.0	2
133	Image Sensor with Hybrid Emission Filter for <i>in-vivo</i> Fluorescent Imaging. <i>IEEJ Transactions on Sensors and Micromachines</i> , 2021, 141, 71-76.	0.1	2
134	Randles Circuit Model for Characterizing a Porous Stimulating Electrode of the Retinal Prosthesis. <i>IEEJ Transactions on Sensors and Micromachines</i> , 2021, 141, 134-140.	0.1	2
135	Planar Multielectrode Array Coupled Complementary Metal Oxide Semiconductor Image Sensor for <i>in vitro</i> Electrophysiology. <i>Japanese Journal of Applied Physics</i> , 2011, 50, 04DL04.	1.5	2
136	[Paper] Demonstrations of Polarization Imaging Capability and Novel Functionality of Polarization-Analyzing CMOS Image Sensor with 65 nm Standard CMOS Process. <i>ITE Transactions on Media Technology and Applications</i> , 2014, 2, 131-138.	0.5	2
137	Design Optimization of CMOS Control Circuit for Integrated Photovoltaic Power Transfer. <i>Sensors and Materials</i> , 2018, 30, 2343.	0.5	2
138	Fe and Co-doped (Ba, Ca)TiO ₃ Perovskite as Potential Electrocatalysts for Glutamate Sensing. <i>Engineering Journal</i> , 2019, 23, 265-278.	1.0	2
139	Dual-color lensless fluorescence imaging by using a notch interference filter and absorption filters. , 2021, , .		2
140	Ultrasmall compact CMOS imaging system for bioluminescence reporter-based live gene expression analysis. <i>Journal of Biomedical Optics</i> , 2021, 26, .	2.6	2
141	Nd ³⁺ -doped tellurite glass microsphere laser. , 2003, , .		1
142	Performance Improvement of High-Extinction-Ratio LiNbO ₃ Optical Intensity Modulator by Means of Polarization Crosstalk Reduction. , 2007, , .		1
143	V-band signal generation by photonic frequency doubling with periodically poled lithium niobate waveguide. , 2008, , .		1
144	CMOS image sensor for recording of intrinsic-optical-signal of the brain. , 2009, , .		1

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145	CMOS-based flexible multi-site retinal stimulator toward retinal prosthesis technology. , 2009, , .		1
146	Polarization-analyzing image sensor based on standard CMOS technology. , 2009, , .		1
147	A CMOS-based multichip flexible retinal stimulator for simultaneous multi-site stimulation. , 2010, 2010, 5883-6.		1
148	Micro CMOS image sensor for multi-area imaging. , 2011, , .		1
149	Baseband signal transmission experiment for intra-brain communication with implantable image sensor. , 2012, 2012, 6011-4.		1
150	A polarization analyzing CMOS image sensor with metal wire grid in 65-nm standard CMOS technology. , 2012, , .		1
151	Lensless imaging device for digital counting of fluorescent micro-droplet chambers. , 2013, , .		1
152	Implantable micro CMOS imaging devices for biomedical applications. , 2013, , .		1
153	A CMOS image sensor with low fixed pattern noise suitable for lensless observation system of digital enzyme-linked immunosorbent assay (ELISA). , 2013, , .		1
154	CMOS sensor-based palm-sized inline optical analysis device for microchemistry systems. Electronics Letters, 2014, 50, 1222-1224.	1.0	1
155	Demonstration of implantable CMOS image sensors for functional brain imaging. , 2014, , .		1
156	An implantable image sensor with self-reset function for brain imaging. , 2014, , .		1
157	An implantable micro imaging device for molecular imaging in a brain of freely-moving mouse. , 2014, , .		1
158	On-chip polarizer on image sensor using advanced CMOS technology. , 2014, , .		1
159	Hemodynamic imaging using an implantable self-reset image sensor. , 2016, , .		1
160	Compact lensless digital counting system for fluorescent micro-reaction-chamber array. , 2016, , .		1
161	Live Demonstration: An Energy-Efficient CMOS Biophotometry Sensor Interface. , 2018, , .		1
162	A Thin Composite Emission Filter and Fiber Coupled Laser Excitation for Implantable Fluorescence Imager Application. , 2019, , .		1

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163	Zn-Doped TiO ₂ Powder Prepared by Solution Combustion Synthesis as Non-Enzymatic Sensor for Acetylcholine Detection. Key Engineering Materials, 0, 843, 84-89.	0.4	1
164	Establishment of meteoropathy model mice. Proceedings for Annual Meeting of the Japanese Pharmacological Society, 2021, 94, 1-O-C1-1.	0.0	1
165	CMOS-Based Neural Interface Device for Optogenetics. Advances in Experimental Medicine and Biology, 2021, 1293, 585-600.	1.6	1
166	Image sensor with hybrid emission filter for in vivo fluorescent imaging. Electronics and Communications in Japan, 2021, 104, e12313.	0.5	1
167	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
168	Fabrication of thin composite emission filter for high-performance lens-free fluorescent imager. , 2020, , .		1
169	[Invited Paper] Near-infrared Colorized Imaging Technologies and Their Fundus Camera Applications. ITE Transactions on Media Technology and Applications, 2022, 10, 59-68.	0.5	1
170	Effects of optical polarization in reflection-mode near-field optical microscopy. , 0, , .		0
171	Control of oscillation wavelength of a microsphere laser using a lambda/4-shifted grating. , 2004, , .		0
172	Sensitivity Enhancement Method for Electro-optic Sensor without Balanced Detection. , 2006, , .		0
173	Waveguide coupler for high-Q LiNbO ₃ disk resonators. Conference Proceedings - Lasers and Electro-Optics Society Annual Meeting-LEOS, 2007, , .	0.0	0
174	Multi-channel measurement of RF complex refractive index by live electrooptic imaging camera. , 2008, , .		0
175	A multimodal sensing device for fluorescence imaging and electrical potential measurement of neural activities in a mouse deep brain. , 2009, 2009, 5887-90.		0
176	A CMOS-based chemical stimulator with microfluid ejection function toward an artificial synaptic device. , 2009, , .		0
177	A Low-Voltage Complementary Metal Oxide Semiconductor Image Sensor Using Pulse-Width-Modulation Scheme for Biomedical Applications. Japanese Journal of Applied Physics, 2009, 48, 04C193.	1.5	0
178	A CMOS sensor for in-vivo fluorescence and electrical imaging in a mouse brain. , 2009, , .		0
179	Real-time in vivo molecular quantification for freely-moving mouse's hippocampus. Neuroscience Research, 2009, 65, S226.	1.9	0
180	Microfluid Ejection Device Based on Complementary Metalâ€“Oxideâ€“Semiconductor Technology as an Artificial Synapse. Japanese Journal of Applied Physics, 2010, 49, 01AG03.	1.5	0

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181	Potentiometric dye imaging for cortical neurons with a novel measurement system using a implantable CMOS imaging device. Neuroscience Research, 2010, 68, e331.	1.9	0
182	Fabrication of a flexible neural interface device with CMOS-based smart electrodes. , 2011, , .		0
183	CMOS-based intelligent neural interface device for optogenetics. Neuroscience Research, 2011, 71, e307-e308.	1.9	0
184	Planar Multielectrode Array Coupled Complementary Metal Oxide Semiconductor Image Sensor forIn vitroElectrophysiology. Japanese Journal of Applied Physics, 2011, 50, 04DL04.	1.5	0
185	Image signal transmission through brain by an implantable micro-imager. , 2012, , .		0
186	Proposal and evaluation of intra-body sensing via sheet medium. , 2012, , .		0
187	Development of a CMOS-based implantable device for wide-area brain functional imaging. , 2012, , .		0
188	Optoelectronics devices for biomedical applications. , 2013, , .		0
189	Body channel digital pulse transmission for biometric measurement by fully implantable CMOS image sensor. , 2014, , .		0
190	Noise performance of an implantable self-reset CMOS image sensor. , 2014, , .		0
191	Improvement of Stimulus Performance by Surface Coating of Stimulus Electrodes for Retinal Prosthesis. Hyomen Gijutsu/Journal of the Surface Finishing Society of Japan, 2014, 65, 257-261.	0.2	0
192	CMOS-based on-chip neural interface devices for optogenetics. , 2015, , .		0
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