Jun Ohta

List of Publications by Year in descending order

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459 papers	4,452 citations	126907 33 h-index	197818 49 g-index
464 all docs	464 docs citations	464 times ranked	2755 citing authors

#	Article	IF	Citations
1	Precise Temporal Control of Interferential Neural Stimulation via Phase Modulation. IEEE Transactions on Biomedical Engineering, 2022, 69, 220-228.	4.2	3
2	Lensless dual-color fluorescence imaging device using hybrid filter. Japanese Journal of Applied Physics, 2022, 61, SC1020.	1.5	6
3	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
4	DNA Optical Readout Methods. , 2022, , 589-600.		0
5	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
6	Optical Biosensors: Implantable Multimodal Devices in Freely Moving Rodents. , 2022, , 143-157.		0
7	Sixtyâ€eight cases of postmortem pink teeth observed in dental autopsies of unidentified cadavers. Journal of Forensic Sciences, 2022, 67, 1280-1287.	1.6	3
8	[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
9	Modular head-mounted cortical imaging device for chronic monitoring of intrinsic signals in mice. Journal of Biomedical Optics, 2022, 27, .	2.6	4
10	Association of Cadaveric Factors with the Degree and Region of Discoloration on Pink Teeth: An Approach to Serial Cases. Applied Sciences (Switzerland), 2022, 12, 4242.	2.5	2
11	Enhancing infrared color reproducibility through multispectral image processing using RGB and three infrared channels. Optical Engineering, 2022, 61, .	1.0	0
12	Monitoring Neuronal Dynamics in the Ventral Tegmental Area Using an Implantable Microimaging Device With Microdialysis System. IEEE Access, 2021, 9, 55871-55878.	4.2	3
13	Establishment of meteoropathy model mice. Proceedings for Annual Meeting of the Japanese Pharmacological Society, 2021, 94, 1-O-C1-1.	0.0	1
14	Micro-LED Array-Based Photo-Stimulation Devices for Optogenetics in Rat and Macaque Monkey Brains. IEEE Access, 2021, 9, 127937-127949.	4.2	11
15	CMOS-Based Neural Interface Device for Optogenetics. Advances in Experimental Medicine and Biology, 2021, 1293, 585-600.	1.6	1
16	Evaluation of a saliva presumptive test using the Î±-amylase assay kit. Japanese Journal of Forensic Science and Technology, 2021, 26, 231-238.	0.1	0
17	Optical Powering Platform for Ultra-Small Implantable Devices. IEEJ Transactions on Sensors and Micromachines, 2021, 141, 63-70.	0.1	0
18	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

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19	Image Sensor with Hybirid Emission Filter for <i>in-vivo</i> Fluorescent Imaging. IEEJ Transactions on Sensors and Micromachines, 2021, 141, 71-76.	0.1	2
20	Miniaturized LED light source with an excitation filter for fluorescent imaging. Japanese Journal of Applied Physics, 2021, 60, SBBG07.	1.5	4
21	A polarisationâ€analysing CMOS image sensor for sensitive polarisation modulation detection. Electronics Letters, 2021, 57, 472-474.	1.0	9
22	Wearable and Battery-Free Health-Monitoring Devices With Optical Power Transfer. IEEE Sensors Journal, 2021, 21, 9402-9412.	4.7	14
23	Image sensor with hybrid emission filter for in vivo fluorescent imaging. Electronics and Communications in Japan, 2021, 104, e12313.	0.5	1
24	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
25	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
26	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
27	Advanced Multi-NIR Spectral Image Sensor with Optimized Vision Sensing System and Its Impact on Innovative Applications. , 2021, , .		0
28	Underwater Endoscopic Ear Surgery for Closure of Cholesteatomatous Labyrinthine Fistula With Preservation of Auditory Function. Otology and Neurotology, 2021, Publish Ahead of Print, e1669-e1676.	1.3	3
29	Randles circuit model for characterizing a porous stimulating electrode of the retinal prosthesis. Electronics and Communications in Japan, 2021, 104, e12324.	0.5	0
30	Oral bacterial DNA-based discrimination of human and canine saliva for the analysis of indistinct bite marks. Forensic Science International: Genetics, 2021, 54, 102566.	3.1	2
31	AC power supply circuit architecture for a miniaturised retinal prosthesis device. Journal of Engineering, 2021, 2021, 546-551.	1.1	0
32	Honeycomb-type retinal device using chemically derived iridium oxide biointerfaces. AIP Advances, 2021, 11, .	1.3	4
33	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
34	Dual-color lensless fluorescence imaging by using a notch interference filter and absorption filters. , 2021, , .		2
35	Ultrasmall compact CMOS imaging system for bioluminescence reporter-based live gene expression analysis. Journal of Biomedical Optics, 2021, 26, .	2.6	2
36	Implantable CMOS image sensor with a neural amplifier for simultaneous recording of optical and electrophysiological signals. , 2021, , .		3

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37	Improved Charge Pump Design and Ex Vivo Experimental Validation of CMOS 256-Pixel Photovoltaic-Powered Subretinal Prosthetic Chip. IEEE Transactions on Biomedical Engineering, 2020, 67, 1490-1504.	4.2	16
38	Application of DNA repair for Streptococcus salivarius DNA-based identification of saliva from ultraviolet-exposed samples. Forensic Science International, 2020, 306, 110077.	2.2	6
39	Photoactivatable oncolytic adenovirus for optogenetic cancer therapy. Cell Death and Disease, 2020, 11, 570.	6.3	12
40	Miniaturized CMOS imaging device for implantable applications. , 2020, , .		0
41	Guest Editorial: Special Issue on Selected Papers From IEEE BioCAS 2019. IEEE Transactions on Biomedical Circuits and Systems, 2020, 14, 634-635.	4.0	0
42	Implantable Fluorescent CMOS Imaging Device. , 2020, , .		0
43	Retinal Prosthesis Using Thin-Film Devices on a Transparent Substrate and Wireless Power Transfer. IEEE Transactions on Electron Devices, 2020, 67, 529-534.	3.0	7
44	Fe₂O₃/MWCNTs modified microdialysis electrode for dopamine detection. Materials Research Express, 2020, 7, 015701.	1.6	9
45	CMOS 256-Pixel/480-Pixel Photovoltaic-Powered Subretinal Prosthetic Chips With Wide Image Dynamic Range and Bi/Four-Directional Sharing Electrodes and Their Ex Vivo Experimental Validations With Mice. IEEE Transactions on Circuits and Systems I: Regular Papers, 2020, 67, 3273-3283.	5.4	16
46	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
47	Monitoring Neural Activities in the VTA in Response to Nicotine Intake Using a Novel Implantable Microimaging Device. IEEE Access, 2020, 8, 68013-68020.	4.2	14
48	Fabrication of thin composite emission filter for high-performance lens-free fluorescent imager. , 2020, , .		1
49	Present Status of Artificial Vision Based on Retinal Stimulation. Journal of Japan Institute of Electronics Packaging, 2020, 23, 403-408.	0.1	0
50	Image refocusing of miniature CMOS image sensor with angle-selective pixels. , 2020, , .		0
51	Spatial Resolution Improvement of Lensless Fluorescence Imaging Device with Hybrid Emission Filter. , 2020, , .		0
52	Implantable CMOS Fluorescent Imaging Devices. Brain Informatics and Health, 2020, , 129-145.	0.4	0
53	An implantable light source for in-vivo fluorescence image sensor. , 2020, , .		0
54	Comparison of pixel circuits in pig eyeball experiment of artificial retina using thin-film devices. , 2020, , .		0

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55	Oral gram-positive bacterial DNA-based identification of saliva from highly degraded samples. Forensic Science International: Genetics, 2019, 42, 103-112.	3.1	13
56	A computational fluid dynamics simulation of liquid swallowing by impaired pharyngeal motion: bolus pathway and pharyngeal residue. American Journal of Physiology - Renal Physiology, 2019, 317, G784-G792.	3.4	7
57	A Thin Composite Emission Filter and Fiber Coupled Laser Excitation for Implantable Fluorescence Imager Application. , 2019, , .		1
58	Wide field-of-view lensless fluorescence imaging device with hybrid bandpass emission filter. AIP Advances, 2019, 9, .	1.3	22
59	Direct Neural Interface. , 2019, , 139-174.		0
60	Implantable CMOS image sensor with incidentâ€angleâ€selective pixels. Electronics Letters, 2019, 55, 729-731.	1.0	19
61	Live Demonstration: Lensless Highly Sensitive Fluorescence Imaging. , 2019, , .		0
62	A CMOS 256-Pixel Self-Photovoltaics-Powered Subretinal Prosthetic Chip with Wide Image Dynamic Range and Shared Electrodes and Its In Vitro Experimental Results on Rd1 Mice. , 2019, , .		3
63	Multispectral Near-infrared Imaging Technologies for Nonmydriatic Fundus Camera. , 2019, , .		6
64	Comparison of Catalytic and Immunological Amylase Tests for Identifying of Saliva from Degraded Samples. Journal of Forensic Sciences, 2019, 64, 873-877.	1.6	6
65	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
66	Chronic brain blood-flow imaging device for a behavioral experiment using mice. Biomedical Optics Express, 2019, 10, 1557.	2.9	7
67	Lens-free Dual-color Fluorescent CMOS Image Sensor for F?rster Resonance Energy Transfer Imaging. Sensors and Materials, 2019, 31, 2579.	0.5	9
68	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
69	Development of Ultra-small Implantable Optogenetic Stimulator. Seibutsu Butsuri, 2019, 59, 156-160.	0.1	0
70	Present Status and Issues of Artificial Vision. Journal of the Institute of Electrical Engineers of Japan, 2019, 139, 164-167.	0.0	0
71	Preface to the Special Issue on â€œSelected Papers in The Technical Meetings on Sensors and Micromachines 2018â€. IEEJ Transactions on Sensors and Micromachines, 2019, 139, 87-87.	0.1	0
72	looking within â€“ implantable image sensors. Electronics Letters, 2019, 55, 718-718.	1.0	0

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73	Porosification of Surface of Platinum Electrode by Anisotropic Etching. Sensors and Materials, 2019, 31, 1957.	0.5	1
74	Fe and Co-doped (Ba, Ca)TiO3 Perovskite as Potential Electrocatalysts for Glutamate Sensing. Engineering Journal, 2019, 23, 265-278.	1.0	2
75	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
76	CMOS-based optical energy harvesting circuit for biomedical and Internet of Things devices. Japanese Journal of Applied Physics, 2018, 57, 04FM05.	1.5	10
77	Elimination of contaminating amplified short tandem repeat products by autoclaving and ultraviolet irradiation. Medicine, Science and the Law, 2018, 58, 25-31.	1.0	2
78	An Energy-Efficient CMOS Biophotometry Sensor With Incremental DT-âˆÎ” ADC Conversion. , 2018, , .		3
79	1 mm3-sized optical neural stimulator based on CMOS integrated photovoltaic power receiver. AIP Advances, 2018, 8, .	1.3	46
80	Physics-based circuits and systems. Japanese Journal of Applied Physics, 2018, 57, 100201.	1.5	0
81	Excitation and Emission Filters for Implantable Fluorescence Imaging Devices by Laser Lift-Off Process. , 2018, , .		0
82	Fabrication of Iridium Oxide/Platinum Composite Film on Titanium Substrate for High-Performance Neurostimulation Electrodes. Coatings, 2018, 8, 420.	2.6	7
83	Active Control of Î¼LED Arrays for Optogenetic Stimulation. , 2018, , .		0
84	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
85	Battery-Free. Sticker-Like, Device for Health Monitoring, Operated by Optical Power Transfer. , 2018, , .		1
86	A 17-bit 104-dB-DR High-Precision Low-Power CMOS Fluorescence Biosensor With Extended Counting ADC and Noise Cancellation. , 2018, , .		4
87	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
88	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
89	Compact Lensless Fluorescence Counting System for Single Molecular Assay. IEEE Transactions on Biomedical Circuits and Systems, 2018, 12, 1177-1185.	4.0	2
90	Live Demonstration: IoT micronode with optical ID transmission capability operated by optical energy harvesting. , 2018, , .		0

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91	Live Demonstration: An Energy-Efficient CMOS Biophotometry Sensor Interface. , 2018, , .		1
92	Functional Validation of Intelligent Retinal Stimulator Using Microchip-embedded Smart Electrode. Sensors and Materials, 2018, , 167.	0.5	4
93	Safety and Efficacy of Semichronic Suprachoroidal Transretinal Stimulation with Femtosecond Laser-induced Porosity and Smooth-surface Electrodes. Sensors and Materials, 2018, , 235.	0.5	3
94	A CMOS 256-pixel Photovoltaics-powered Implantable Chip with Active Pixel Sensors and Iridium-oxide Electrodes for Subretinal Prostheses. Sensors and Materials, 2018, , 193.	0.5	15
95	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
96	In Vitro and In Vivo Long-term Electrochemical Properties of Electrodes with Femtosecond-laser-induced Porosity for Visual Prostheses Based on Suprachoroidal Transretinal Stimulation. Sensors and Materials, 2018, , 251.	0.5	2
97	Effects of an Asymmetric Electrical Pulse on Retinal Excitement for Retinal Prostheses. Sensors and Materials, 2018, , 315.	0.5	2
98	Comparative Study of Sevoflurane and Isoflurane Anesthesia for the Long-term Safety Evaluation of Visual Prosthesis with Rabbits. Sensors and Materials, 2018, , 287.	0.5	0
99	Small and Compact <i>In-vivo</i> FRET Image Sensor â€“ Fabrication and Development using CMOS Technology. , 2018, , .		0
100	CMOS-integrated optical power transfer for an ultra-small wireless implantable devices. , 2018, , .		0
101	Design Optimization of CMOS Control Circuit for Integrated Photovoltaic Power Transfer. Sensors and Materials, 2018, 30, 2343.	0.5	2
102	Emerging technologies for biomedical applications: Artificial vision systems and brain machine interface. , 2017, , .		0
103	Implantable optogenetic device with CMOS IC technology for simultaneous optical measurement and stimulation. Japanese Journal of Applied Physics, 2017, 56, 057001.	1.5	7
104	On-chip cell analysis platform: Implementation of contact fluorescence microscopy in microfluidic chips. AIP Advances, 2017, 7, 095213.	1.3	22
105	Optical sensor and interface technologies for implantable biomedical devices. , 2017, , .		0
106	Reducing of salivary Î±-amylase inhibition by using bovine serum albumin and calcium chloride for forensic saliva screening. Legal Medicine, 2017, 28, 54-58.	1.3	9
107	Implantable Microimaging Device for Observing Brain Activities of Rodents. Proceedings of the IEEE, 2017, 105, 158-166.	21.3	35
108	Guest Editorialâ€”Special Issue on Selected Papers From IEEE BioCAS 2016. IEEE Transactions on Biomedical Circuits and Systems, 2017, 11, 1256-1257.	4.0	0

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109	A high-precision CMOS biophotometry sensor with noise cancellation and two-step A/D conversion. , 2017, , .		12
110	Fluorescence imaging device with an ultra-thin micro-LED. , 2017, , .		0
111	Fabrication and in vivo demonstration of microchip-embedded smart electrode device for neural stimulation in retinal prosthesis. , 2017, , .		6
112	CMOS-based opto-electric neural interface devices for optogenetics. , 2017, , .		0
113	Parylene-based flexible imaging device for physiological measurement of rodent brain. , 2017, , .		0
114	Implantable microâ€sized image sensor for data transmission with intraâ€vital optical communication. Journal of Engineering, 2017, 2017, 4-6.	1.1	2
115	Initial Evaluation of the Safety and Durability of Retinal Prostheses Based on Suprachoroidalâ€“transretinal Stimulation using Bullet-shaped Platinum Electrodes. Advanced Biomedical Engineering, 2017, 6, 8-14.	0.6	3
116	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
117	Development of Chronic Implantable Electrodes for Long-term Visual Evoked Potential Recording in Rabbits. Advanced Biomedical Engineering, 2017, 6, 59-67.	0.6	3
118	Stimulator Design of Retinal Prosthesis. IEICE Transactions on Electronics, 2017, E100.C, 523-528.	0.6	8
119	Long-Term Analysis of In Vivo Characteristics of Recording Electrode Using Electrochemical Impedance Spectroscopy. Sensors and Materials, 2017, , 1689.	0.5	0
120	Image Sensor Technology for Biomedical Applications. IEEJ Transactions on Sensors and Micromachines, 2017, 137, 301-306.	0.1	0
121	Mechanical Machining-based Three-Dimensional Electrode Array for Chronic Neural Stimulation. Advanced Biomedical Engineering, 2016, 5, 137-141.	0.6	5
122	4. Image Sensors for Biomedical Applications. Kyokai Joho Imeji Zasshi/Journal of the Institute of Image Information and Television Engineers, 2016, 70, 271-276.	0.1	0
123	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
124	Neural stimulators for retinal prosthesis embedded with CMOS microchips. , 2016, , .		2
125	â€œOptical communication with brain cells by means of an implanted duplex micro-device with optogenetics and Ca2+ fluoroimagingâ€• Scientific Reports, 2016, 6, 21247.	3.3	20
126	Guest Editorial Special Issue on Sensors and Interfaces for Mobile Healthcare. IEEE Sensors Journal, 2016, 16, 8185-8185.	4.7	2

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127	Implantable micro-optical semiconductor devices for optical theranostics in deep tissue. Applied Physics Express, 2016, 9, 047001.	2.4	17
128	Hemodynamic imaging using an implantable self-reset image sensor. , 2016, , .		1
129	Compact lensless digital counting system for fluorescent micro-reaction-chamber array. , 2016, , .		1
130	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
131	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
132	Features of retinal prosthesis using suprachoroidal transretinal stimulation from an electrical circuit perspective. , 2016, , .		4
133	CMOS-Based Optoelectronic On-Chip Neural Interface Device. IEICE Transactions on Electronics, 2016, E99.C, 165-172.	0.6	4
134	Micro-optoelecronic devices for biomedical applications. , 2016, , .		0
135	On-chip fluorescence detection system with high-density microchamber array based on CMOS image sensor. , 2016, , .		2
136	CMOS-based opto-electronic neural interface devices for optogenetics. , 2016, 2016, 6319-6322.		2
137	Implantable imaging device for brain functional imaging system using flavoprotein fluorescence. Japanese Journal of Applied Physics, 2016, 55, 03DF02.	1.5	20
138	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
139	A Multichannel Power-Supply-Modulated Microstimulator With Energy Recycling. IEEE Design and Test, 2016, 33, 61-73.	1.2	3
140	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
141	ZnO Nanorod Arrays Fabricated by Hydrothermal Method Using Different Thicknesses of Seed Layer for Applications in Hybrid Photovoltaic Cells. Sensors and Materials, 2016, , 1.	0.5	0
142	Lensless CMOS Imaging Device for Fluorescent and Non-Fluorescent Imaging Dedicated to Digital ELISA. IEEJ Transactions on Sensors and Micromachines, 2016, 136, 12-17.	0.1	0
143	High coupling efficiency contact imaging system having micro light pipe array for a digital enzyme-linked immunosorbent assay. , 2015, , .		3
144	Intrinsic signal imaging of brain function using a small implantable CMOS imaging device. Japanese Journal of Applied Physics, 2015, 54, 04DL10.	1.5	17

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145	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
146	CMOS-based on-chip neural interface devices for optogenetics. , 2015, , .		0
147	CMOSâ€based implantable glucose monitoring device with improved performance and reduced invasiveness. Electronics Letters, 2015, 51, 738-740.	1.0	2
148	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
149	Fluorescence imaging under background light with a selfâ€reset complementary metalâ€“oxideâ€“semiconductor image sensor. Journal of Engineering, 2015, 2015, 328-330.	1.1	4
150	CMOS-Based Implantable Glucose Monitoring Device with Glucose-Responsive Fluorescent Hydrogel. , 2015, , .		0
151	CMOS-Based Neural Interface Device for Optogenetics. , 2015, , 375-389.		0
152	Implantable semiconductor imaging devices for in vivo optical imaging of brain. , 2015, , .		0
153	DNA Optical Readout Methods. , 2015, , 1-12.		0
154	Preface to the Special Issue on â€œSensor Technologies for Brain Recordingsâ€• IEEJ Transactions on Sensors and Micromachines, 2015, 135, 238-238.	0.1	0
155	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
156	Digital signal transmission from fully implantable CMOS image sensor in simulated body environment. Electronics Letters, 2014, 50, 851-853.	1.0	2
157	CMOS sensorâ€based palmâ€sized inâ€line optical analysis device for microchemistry systems. Electronics Letters, 2014, 50, 1222-1224.	1.0	1
158	Demonstration of implantable CMOS image sensors for functional brain imaging. , 2014, , .		1
159	An implantable image sensor with self-reset function for brain imaging. , 2014, , .		1
160	An implantable green fluorescence imaging device using absorption filters with high excitation light rejection ratio. , 2014, , .		3
161	CMOS image sensor-based implantable glucose sensor using glucose-responsive fluorescent hydrogel. Biomedical Optics Express, 2014, 5, 3859.	2.9	36
162	An implantable micro imaging device for molecular imaging in a brain of freely-moving mouse. , 2014, , .		1

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163	On-chip polarizer on image sensor using advanced CMOS technology. , 2014, , .		1
164	Closure technique for labyrinthine fistula by â€œunderwaterâ€•endoscopic ear surgery. Laryngoscope, 2014, 124, 2616-2618.	2.0	31
165	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
166	Functional brain fluorescence plurimetry in rat by implantable concatenated CMOS imaging system. Biosensors and Bioelectronics, 2014, 53, 31-36.	10.1	13
167	Body channel digital pulse transmission for biometric measurement by fully implantable CMOS image sensor. , 2014, , .		0
168	Noise performance of an implantable self-reset CMOS image sensor. , 2014, , .		0
169	Surgical treatment for the aberrant internal carotid artery in the middle ear with pulsatile tinnitus. Auris Nasus Larynx, 2014, 41, 215-218.	1.2	15
170	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
171	Implantable CMOS imaging device with absorption filters for green fluorescence imaging. Proceedings of SPIE, 2014, , .	0.8	9
172	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
173	Surface Technologies in Biomedical Devices. Hyomen Gijutsu/Journal of the Surface Finishing Society of Japan, 2014, 65, 244-246.	0.2	0
174	Dual-mode lensless imaging device for digital enzyme linked immunosorbent assay. , 2014, , .		8
175	[Paper] Demonstrations of Polarization Imaging Capability and Novel Functionality of Polarization-Analyzing CMOS Image Sensor with 65 nm Standard CMOS Process. ITE Transactions on Media Technology and Applications, 2014, 2, 131-138.	0.5	2
176	Future Direction of Image Sensor Technologies and Applications in Japan. Kyokai Joho Imeji Zasshi/Journal of the Institute of Image Information and Television Engineers, 2014, 68, 12-20.	0.1	0
177	A CMOS microchip-based retinal prosthetic device for large numbers of stimulation in wide area. , 2013, , .		3
178	ZnTe Amorphous Semiconductor Nanowires Array Electrodeposited into Polycarbonate Membrane Thin Films. Journal of Physics: Conference Series, 2013, 417, 012005.	0.4	0
179	Lensless imaging device for digital counting of fluorescent micro-droplet chambers. , 2013, , .		1
180	Optoelectronics devices for biomedical applications. , 2013, , .		0

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181	An in vitro demonstration of CMOS-based optoelectronic neural interface device for optogenetics. , 2013, 2013, 799-802.		4
182	Implantable micro CMOS imaging devices for biomedical applications. , 2013, , .		1
183	Needle type CMOS imaging device for fluorescence imaging of deep brain activities with low invasiveness. , 2013, , .		2
184	A CMOS image sensor with low fixed pattern noise suitable for lensless observation system of digital enzyme-linked immunosorbent assay (ELISA). , 2013, , .		1
185	Observation of optical anisotropy of highly uniform InAs quantum dots. Journal of Crystal Growth, 2013, 378, 463-465.	1.5	1
186	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
187	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
188	Implantable image sensor based on intra-brain image transmission. , 2013, 2013, 1863-6.		3
189	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
190	Polarisation analysing complementary metalâ€oxide semiconductor image sensor in 65â€nm standard CMOS technology. Journal of Engineering, 2013, 2013, 45-47.	1.1	6
191	[Paper] A CMOS Optoelectronic Neural Interface Device Based on an Image Sensor with On-chip Light Stimulation and Extracellular Neural Signal Recording for Optogenetics. ITE Transactions on Media Technology and Applications, 2013, 1, 184-189.	0.5	5
192	CMOS on-chip bio-imaging sensor with integrated micro light source array for optogenetics. Electronics Letters, 2012, 48, 312.	1.0	24
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