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	Important Role of Endogenous Erythropoietin System in Recruitment of Endothelial Progenitor Cells in Hypoxia-Induced Pulmonary Hypertension in Mice. Circulation, 2006, 113, 1442-1450.	1.6	195
2	High Serum Erythropoietin Level Is Associated With Smaller Infarct Size in Patients With Acute Myocardial Infarction Who Undergo Successful Primary Percutaneous Coronary Intervention. Journal of the American College of Cardiology, 2005, 45, 1406-1412.	2.8	119
3	Smart CMOS Image Sensors and Applications. , 0, , .		98
4	Computer vision for computer games. , 0, , .		97
5	Implantable CMOS Biomedical Devices. Sensors, 2009, 9, 9073-9093.	3.8	85
6	Artificial retinas â€" fast, versatile image processors. Nature, 1994, 372, 197-198.	27.8	83
7	Endogenous erythropoietin system in non-hematopoietic lineage cells plays a protective role in myocardial ischemia/reperfusion. Cardiovascular Research, 2006, 71, 466-477.	3.8	80
8	Protective Role of Endogenous Erythropoietin System in Nonhematopoietic Cells Against Pressure Overloadâ€"Induced Left Ventricular Dysfunction in Mice. Circulation, 2007, 115, 2022-2032.	1.6	78
9	Alzheimer Amyloid Protein Precursor Enhances Proliferation of Neural Stem Cells from Fetal Rat Brain. Biochemical and Biophysical Research Communications, 1994, 205, 936-943.	2.1	68
10	Proposal of Application of Pulsed Vision Chip for Retinal Prosthesis. Japanese Journal of Applied Physics, 2002, 41, 2322-2325.	1.5	66
11	A Mode of Assembly of P0, P1, and P2 Proteins at the GTPase-associated Center in Animal Ribosome. Journal of Biological Chemistry, 2005, 280, 39193-39199.	3.4	66
12	GaAs/AlGaAs optical synaptic interconnection device for neural networks. Optics Letters, 1989, 14, 844.	3.3	59
13	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
14	On-chip biofluorescence imaging inside a brain tissue phantom using a CMOS image sensor for in vivo brain imaging verification. Sensors and Actuators B: Chemical, 2006, 119, 262-274.	7.8	53
15	l-Cysteine metabolism via 3-mercaptopyruvate pathway and sulfate formation in rat liver mitochondria. Amino Acids, 1992, 2, 143-155.	2.7	52
16	A CMOS image sensor with optical and potential dual imaging function for on-chip bioscientific applications. Sensors and Actuators A: Physical, 2006, 125, 273-280.	4.1	51
17	Optical and electrochemical dual-image CMOS sensor for on-chip biomolecular sensing applications. Sensors and Actuators A: Physical, 2007, 135, 315-322.	4.1	51
18	Silicon LSI-based smart stimulators for retinal prosthesis. IEEE Engineering in Medicine and Biology Magazine, 2006, 25, 47-59.	0.8	50

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19	Polarisation-analysing CMOS photosensor with monolithically embedded wire grid polariser. Electronics Letters, 2009, 45, 228.	1.0	50
20	Capture of photoexcited carriers by a laser structure. Applied Physics Letters, 1989, 55, 2646-2648.	3.3	49
21	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
22	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
23	An artificial retina chip with current-mode focal plane image processing functions. IEEE Transactions on Electron Devices, 1997, 44, 1777-1782.	3.0	48
24	Flexible and extendible neural interface device based on cooperative multi-chip CMOS LSI architecture. Sensors and Actuators A: Physical, 2005, 122, 88-98.	4.1	48
25	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
26	S-band Tm[sup 3+]-doped tellurite glass microsphere laser via a cascade process. Applied Physics Letters, 2004, 85, 4325.	3.3	46
27	1 mm3-sized optical neural stimulator based on CMOS integrated photovoltaic power receiver. AIP Advances, 2018, 8, .	1.3	46
28	One-chip sensing device (biomedical photonic LSI) enabled to assess hippocampal steep and gradual up-regulated proteolytic activities. Journal of Neuroscience Methods, 2008, 173, 114-120.	2.5	42
29	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
30	Real time in vivo imaging and measurement of serine protease activity in the mouse hippocampus using a dedicated complementary metal-oxide semiconductor imaging device. Journal of Neuroscience Methods, 2006, 156, 23-30.	2.5	39
31	Laboratory investigation of microelectronics-based stimulators for large-scale suprachoroidal transretinal stimulation (STS). Journal of Neural Engineering, 2007, 4, S85-S91.	3.5	39
32	Pixel design of pulsed CMOS image sensor for retinal prosthesis with digital photosensitivity control. Electronics Letters, 2003, 39, 419.	1.0	37
33	Clinical improvement of adrenoleukodystrophy following intravenous gammaglobulin therapy. Brain and Development, 1989, 11, 134-137.	1.1	36
34	CMOS image sensor-based implantable glucose sensor using glucose-responsive fluorescent hydrogel. Biomedical Optics Express, 2014, 5, 3859.	2.9	36
35	Implantable Microimaging Device for Observing Brain Activities of Rodents. Proceedings of the IEEE, 2017, 105, 158-166.	21.3	35
36	Deficit of CD38/cyclic ADP-ribose is differentially compensated in hearts by gender. Biochemical and Biophysical Research Communications, 2003, 312, 434-440.	2.1	33

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37	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
38	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
39	The development of a multichannel electrode array for retinal prostheses. Journal of Artificial Organs, 2006, 9, 263-266.	0.9	31
40	Closure technique for labyrinthine fistula by â€œunderwaterâ€•endoscopic ear surgery. Laryngoscope, 2014, 124, 2616-2618.	2.0	31
41	Three Binding Sites for Stalk Protein Dimers Are Generally Present in Ribosomes from Archaeal Organism. Journal of Biological Chemistry, 2007, 282, 32827-32833.	3.4	30
42	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
43	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
44	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
45	Variable-sensitivity photodetector that uses a metalâ€“semiconductorâ€“metal structure for optical neural networks. Optics Letters, 1991, 16, 611.	3.3	28
46	An image sensor with an in-pixel demodulation function for detecting the intensity of a modulated light signal. IEEE Transactions on Electron Devices, 2003, 50, 166-172.	3.0	28
47	Pulse-Domain Digital Image Processing for Vision Chips Employing Low-Voltage Operation in Deep-Submicrometer Technologies. IEEE Journal of Selected Topics in Quantum Electronics, 2004, 10, 816-828.	2.9	28
48	Nd-doped tellurite glass microsphere laser. Electronics Letters, 2002, 38, 1355.	1.0	27
49	Integrated In Vivo Neural Imaging and Interface CMOS Devices: Design, Packaging, and Implementation. IEEE Sensors Journal, 2008, 8, 121-130.	4.7	27
50	MBE growth mode and C incorporation of GeC epilayers on Si(001) substrates using an arc plasma gun as a novel C source. Journal of Crystal Growth, 2003, 249, 78-86.	1.5	25
51	Multimodal Complementary Metalâ€“Oxideâ€“Semiconductor Sensor Device for Imaging of Fluorescence and Electrical Potential in Deep Brain of Mouse. Japanese Journal of Applied Physics, 2010, 49, 01AG02.	1.5	25
52	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	25
53	Weight quantization in Boltzmann machines. Neural Networks, 1991, 4, 405-409.	5.9	24
54	Optical learning neurochip with internal analog memory. Applied Optics, 1993, 32, 1264.	2.1	24

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55	CMOS on-chip bio-imaging sensor with integrated micro light source array for optogenetics. Electronics Letters, 2012, 48, 312.	1.0	24
56	CMOS image sensor integrated with micro-LED and multielectrode arrays for the patterned photostimulation and multichannel recording of neuronal tissue. Optics Express, 2012, 20, 6097.	3.4	24
57	Potentiometric Dye Imaging for Pheochromocytoma and Cortical Neurons with a Novel Measurement System Using an Integrated Complementary Metalâ€“Oxideâ€“Semiconductor Imaging Device. Japanese Journal of Applied Physics, 2010, 49, 117001.	1.5	23
58	Self-Formation of In-Plane Ultrahigh-Density InAs Quantum Dots on GaAsSb/GaAs(001). Applied Physics Express, 2012, 5, 125502.	2.4	23
59	Ultrafast switching characteristics of a bistable surfaceâ€emitting multiple quantum well distributed Bragg reflector laser. Applied Physics Letters, 1988, 52, 942-944.	3.3	22
60	An implantable and fully integrated complementary metalâ€“oxide semiconductor device for in vivo neural imaging and electrical interfacing with the mouse hippocampus. Sensors and Actuators A: Physical, 2008, 145-146, 176-186.	4.1	22
61	On-chip cell analysis platform: Implementation of contact fluorescence microscopy in microfluidic chips. AIP Advances, 2017, 7, 095213.	1.3	22
62	Wide field-of-view lensless fluorescence imaging device with hybrid bandpass emission filter. AIP Advances, 2019, 9, .	1.3	22
63	Metabolism ofl-cysteine via transamination pathway (3-mercaptopyruvate pathway). Amino Acids, 1992, 3, 243-252.	2.7	20
64	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
65	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
66	Implantable imaging device for brain functional imaging system using flavoprotein fluorescence. Japanese Journal of Applied Physics, 2016, 55, 03DF02.	1.5	20
67	Optical neurochip based on a three-layered feed-forward model. Optics Letters, 1990, 15, 1362.	3.3	19
68	Implantable CMOS image sensor with incidentâ€angleâ€selective pixels. Electronics Letters, 2019, 55, 729-731.	1.0	19
69	Buried transverseâ€junction stripe laser for optoelectronicâ€integrated circuits. Journal of Applied Physics, 1987, 61, 4933-4935.	2.5	18
70	Dynamic optical neurochip using variable-sensitivity photodiodes. Optics Letters, 1991, 16, 744.	3.3	18
71	Functional verification of pulse frequency modulation-based image sensor for retinal prosthesis by in vitro electrophysiological experiments using frog retina. Biosensors and Bioelectronics, 2006, 21, 1059-1068.	10.1	18
72	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

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73	Back-illuminated pulse-frequency-modulated photosensor using silicon-on-sapphire technology developed for use as epi-retinal prosthesis device. Electronics Letters, 2003, 39, 1102.	1.0	17
74	Pulse frequency modulation based CMOS image sensor for subretinal stimulation. IEEE Transactions on Circuits and Systems Part 2: Express Briefs, 2006, 53, 487-491.	2.2	17
75	Intrinsic signal imaging of brain function using a small implantable CMOS imaging device. Japanese Journal of Applied Physics, 2015, 54, 04DL10.	1.5	17
76	Implantable micro-optical semiconductor devices for optical theranostics in deep tissue. Applied Physics Express, 2016, 9, 047001.	2.4	17
77	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
78	Optical implementation of large-scale neural networks using a time-division-multiplexing technique. Optics Letters, 1990, 15, 227.	3.3	16
79	Variable sensitivity photodetector for optical neural networks. Journal of Lightwave Technology, 1991, 9, 1747-1754.	4.6	16
80	Isolation and characterization of 3-[(carboxymethyl)thio]-3-(1H-imidazol-4-yl)propanoic acid from human urine and preparation of its proposed precursor, S-[2-carboxy-1-(1H-imidazol-4-yl)ethyl]cysteine. Biochemical Journal, 1991, 275, 617-621.	3.7	16
81	Optical neurochip with learning capability. IEEE Photonics Technology Letters, 1992, 4, 247-249.	2.5	16
82	SiGe/Si microtubes fabricated on a silicon-on-insulator substrate. Journal Physics D: Applied Physics, 2003, 36, L67-L69.	2.8	16
83	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
84	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
85	Retinal Stimulation on Rabbit Using Complementary Metal Oxide Semiconductor Based Multichip Flexible Stimulator toward Retinal Prosthesis. Japanese Journal of Applied Physics, 2008, 47, 3220-3225.	1.5	15
86	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
87	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
88	Smart CMOS Image Sensors and Applications. , 0, , .		15
89	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
90	Effect ofN-acetylcysteine administration on cysteine and glutathione contents in liver and kidney and in perfused liver of intact and diethyl maleate-treated rats. Amino Acids, 1994, 7, 255-266.	2.7	14

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91	A Study of Bending Effect on Pulse-Frequency-Modulation-Based Photosensor for Retinal Prosthesis. Japanese Journal of Applied Physics, 2003, 42, 7621-7624.	1.5	14
92	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
93	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
94	Wearable and Battery-Free Health-Monitoring Devices With Optical Power Transfer. IEEE Sensors Journal, 2021, 21, 9402-9412.	4.7	14
95	Formation of sulfate from L-cysteine in rat liver mitochondria. Acta Medica Okayama, 1990, 44, 55-64.	0.2	14
96	In vivo Stimulation on Rabbit Retina using CMOS LSI-based Multi-Chip Flexible Stimulator for Retinal Prosthesis. Annual International Conference of the IEEE Engineering in Medicine and Biology Society, 2007, 2007, 5791-4.	0.5	13
97	A 3.6pW/frameÂ·pixel 1.35V PWM CMOS Imager with Dynamic Pixel Readout and no Static Bias Current. , 2008, , .		13
98	Smart electrode array device with CMOS multi-chip architecture for neural interface. Electronics Letters, 2012, 48, 1328.	1.0	13
99	Functional brain fluorescence plurimetry in rat by implantable concatenated CMOS imaging system. Biosensors and Bioelectronics, 2014, 53, 31-36.	10.1	13
100	Oral gram-positive bacterial DNA-based identification of saliva from highly degraded samples. Forensic Science International: Genetics, 2019, 42, 103-112.	3.1	13
101	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
102	Micro-sized photo-detecting stimulator array for retinal prosthesis by distributed sensor network approach. Sensors and Actuators A: Physical, 2005, 120, 78-87.	4.1	12
103	A visual prosthesis with 100 electrodes featuring wireless signals and wireless power transmission. IEICE Electronics Express, 2008, 5, 574-580.	0.8	12
104	Optical and Electric Multifunctional CMOS Image Sensors for On-Chip Biosensing Applications. Materials, 2011, 4, 84-102.	2.9	12
105	Complementary Metalâ€“Oxideâ€“Semiconductor Image Sensor with Microchamber Array for Fluorescent Bead Counting. Japanese Journal of Applied Physics, 2012, 51, 02BL01.	1.5	12
106	A high-precision CMOS biophotometry sensor with noise cancellation and two-step A/D conversion. , 2017, , .		12
107	Photoactivatable oncolytic adenovirus for optogenetic cancer therapy. Cell Death and Disease, 2020, 11, 570.	6.3	12
108	GaAs/AlGaAs Optical Interconnection Chip for Neural Network. Japanese Journal of Applied Physics, 1989, 28, 2101-2103.	1.5	12

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109	Complementary Metalâ€“Oxideâ€“Semiconductor Image Sensor with Microchamber Array for Fluorescent Bead Counting. Japanese Journal of Applied Physics, 2012, 51, 02BL01.	1.5	12
110	A Complementary Metalâ€“Oxideâ€“Semiconductor Image Sensor for On-Chipin Vitroandin VivoImaging of the Mouse Hippocampus. Japanese Journal of Applied Physics, 2006, 45, 3799-3806.	1.5	11
111	A New Scheme for Imaging On-Chip Dry DNA Spots using Optical/Potential Dual-Image Complementary Metal Oxide Semiconductor Sensor. Japanese Journal of Applied Physics, 2007, 46, 2806-2810.	1.5	11
112	Implantable Microimagers. Sensors, 2008, 8, 3183-3204.	3.8	11
113	Implantable Image Sensor with Light Guide Array Plate for Bioimaging. Japanese Journal of Applied Physics, 2010, 49, 04DL03.	1.5	11
114	Micro-LED Array-Based Photo-Stimulation Devices for Optogenetics in Rat and Macaque Monkey Brains. IEEE Access, 2021, 9, 127937-127949.	4.2	11
115	Fabrication and Validation of Multichip Neural Stimulator forIn vivoExperiments toward Retinal Prosthesis. Japanese Journal of Applied Physics, 2007, 46, 2792-2798.	1.5	10
116	Functional neuroimaging by using an implantable CMOS multimodal device in a freely-moving mouse. , 2011, , .		10
117	Wireless intra-brain communication for image transmission through mouse brain. , 2011, 2011, 2917-20.		10
118	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
119	CMOS-based optical energy harvesting circuit for biomedical and Internet of Things devices. Japanese Journal of Applied Physics, 2018, 57, 04FM05.	1.5	10
120	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
121	Artificial Retina IC. Integrated Circuits and Systems, 2011, , 481-514.	0.2	10
122	S-[2-Carboxy-1-(1H-imidazol-4-yl)ethyl]cysteine in normal human urine. Amino Acids, 1991, 1, 259-262.	2.7	9
123	Purification of a novel serpin-like protein from bovine brain. Neuroscience Research, 1995, 24, 47-52.	1.9	9
124	Effect of lower growth temperature on C incorporation in GeC epilayers on grown by MBE. Physica E: Low-Dimensional Systems and Nanostructures, 2003, 16, 473-475.	2.7	9
125	Fabrication and current-drive of SiGeâˆ•Si â€˜Micro-origamiâ€™ epitaxial MEMS device on SOI substrate. Electronics Letters, 2004, 40, 1333.	1.0	9
126	Flexible and Extendible Neural Stimulation Device with Distributed Multichip Architecture for Retinal Prosthesis. Japanese Journal of Applied Physics, 2005, 44, 2099-2103.	1.5	9

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127	A low-voltage PWM CMOS imager with small pixel size using an in-pixel gate-common comparator. IEICE Electronics Express, 2007, 4, 271-276.	0.8	9
128	Implantable CMOS imaging device with absorption filters for green fluorescence imaging. Proceedings of SPIE, 2014, , .	0.8	9
129	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
130	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
131	Fe₂O₃/MWCNTs modified microdialysis electrode for dopamine detection. Materials Research Express, 2020, 7, 015701.	1.6	9
132	A polarisationâ€analysing CMOS image sensor for sensitive polarisation modulation detection. Electronics Letters, 2021, 57, 472-474.	1.0	9
133	Lens-free Dual-color Fluorescent CMOS Image Sensor for F?rster Resonance Energy Transfer Imaging. Sensors and Materials, 2019, 31, 2579.	0.5	9
134	Large band gap bowing of MBE-grown GeC/Si(001) layers. Journal of Crystal Growth, 2003, 255, 273-276.	1.5	8
135	Pulse modulation CMOS image sensor for bio-fluorescence imaging applications. , 0, , .		8
136	A 128 Ã— 128 Pixel Complementary Metal Oxide Semiconductor Image Sensor with an Improved Pixel Architecture for Detecting Modulated Light Signals. Optical Review, 2006, 13, 64-68.	2.0	8
137	An implantable CMOS image sensor for monitoring deep brain activities of a freely moving mouse. , 2008, , .		8
138	High-Density and Very Small-Size a Ge1-xCxNanocrystal Assemblies on a Si(100) Substrate Fabricated Using Bionanoprocess with Proteins â€œFerritinâ€•and Solid Source Molecular Beam Epitaxy. Japanese Journal of Applied Physics, 2008, 47, 3028-3031.	1.5	8
139	Polarization analyzing CMOS sensor for microchamber/microfluidic system based on image sensor technology. , 2008, , .		8
140	Polarization-analyzing CMOS image sensor using monolithically embedded polarizer for microchemistry systems. , 2009, , .		8
141	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
142	Dual-mode lensless imaging device for digital enzyme linked immunosorbent assay. , 2014, , .		8
143	Stimulator Design of Retinal Prosthesis. IEICE Transactions on Electronics, 2017, E100.C, 523-528.	0.6	8
144	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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145	An artificial retina chip made of a 128 x 128 pn-np variable-sensitivity photodetector array. IEEE Photonics Technology Letters, 1995, 7, 188-190.	2.5	7
146	Pulse-Modulated Vision Chips with Versatile-Interconnected Pixels. Lecture Notes in Computer Science, 2000, , 1063-1071.	1.3	7
147	CMOS Imaging Devices for Biomedical Applications. IEICE Transactions on Communications, 2011, E94.B, 2454-2460.	0.7	7
148	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
149	Implantable optogenetic device with CMOS IC technology for simultaneous optical measurement and stimulation. Japanese Journal of Applied Physics, 2017, 56, 057001.	1.5	7
150	Fabrication of Iridium Oxide/Platinum Composite Film on Titanium Substrate for High-Performance Neurostimulation Electrodes. Coatings, 2018, 8, 420.	2.6	7
151	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
152	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
153	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
154	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
155	Chronic brain blood-flow imaging device for a behavioral experiment using mice. Biomedical Optics Express, 2019, 10, 1557.	2.9	7
156	Optical implementation of an associative neural network model with a stochastic process. Applied Optics, 1989, 28, 2426.	2.1	6
157	Inhibition of sulfate-forming activity in rat liver mitochondria by (aminooxy)acetate. Amino Acids, 1993, 5, 245-251.	2.7	6
158	Cysteine dioxygenase and Î³-glutamylcysteine synthetase activities in primary cultured hepatocytes respond to sulfur amino acid supplementation in a reciprocal manner. Amino Acids, 2000, 19, 705-728.	2.7	6
159	Building a Simple Model of a Pulse-Frequency-Modulation Photosensor and Demonstration of a 128 x 128-pixel Pulse-Frequency-Modulation Image Sensor Fabricated in a Standard 0.35-$mUm Complementary Metal-Oxide Semiconductor Technology. Optical Review, 2004, 11, 176-181.	2.0	6
160	Retinal prosthesis device based on pulse-frequency-modulation vision chip. , 0, , .		6
161	Laser pointer as a mouse. , 2007, , .		6
162	Position-Controlled Si Nanocrystals in a SiO₂Thin Film Using a Novel Amorphous Si Ultra-Thin-Film â€œNanomaskâ€•due to a Bio-Nanoprocess for Low-Energy Ion Implantation. Applied Physics Express, 0, 1, 034001.	2.4	6

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163	Polarisation analysing complementary metalâ€•oxide semiconductor image sensor in 65â€•nm standard CMOS technology. Journal of Engineering, 2013, 2013, 45-47.	1.1	6
164	Fabrication and in vivo demonstration of microchip-embedded smart electrode device for neural stimulation in retinal prosthesis. , 2017, , .		6
165	Multispectral Near-infrared Imaging Technologies for Nonmydriatic Fundus Camera. , 2019, , .		6
166	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
167	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
168	An "Opt-Navi" System Using a Custom CMOS Image Sensor with a Function of Reading Multiple Region-of-interests. Kyokai Joho Imeji Zasshi/Journal of the Institute of Image Information and Television Engineers, 2005, 59, 1830-1840.	0.1	6
169	Lensless dual-color fluorescence imaging device using hybrid filter. Japanese Journal of Applied Physics, 2022, 61, SC1020.	1.5	6
170	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
171	Increase in cystathionine content in rat liver mitochondria after D,L-propargylglycine administration. Amino Acids, 1995, 9, 111-122.	2.7	6
172	Increase in tissue cysteine level and excretion of sulfate and taurine after intragastric administration ofl-2-oxothiazolidine-4-carboxylate in rats. Amino Acids, 1995, 8, 37-45.	2.7	5
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