

Hironari Takehara

List of Publications by Year in descending order

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78
papers

927
citations

528359

15
h-index

488912

28
g-index

82
all docs

82
docs citations

82
times ranked

1649
citing authors

#	ARTICLE	IF	CITATIONS
1	Polarization Qubit Phase Gate in Driven Atomic Media. <i>Physical Review Letters</i> , 2003, 90, 197902.	8.0	184
2	Noninvasive optical imaging in the visual cortex in young infants. <i>Human Brain Mapping</i> , 2004, 22, 122-132.	3.7	90
3	Design, docking, and evaluation of multiple libraries against multiple targets. <i>Proteins: Structure, Function and Bioinformatics</i> , 2001, 42, 296-318.	3.2	66
4	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
5	Ultraviolet-inscribed long period gratings in all-solid photonic bandgap fibers. <i>Optics Express</i> , 2008, 16, 21119.	3.4	39
6	Co-regulation of the transcription controlling ATF2 phosphoswitch by JNK and p38. <i>Nature Communications</i> , 2020, 11, 5769.	13.2	34
7	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
8	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
9	Improving mechanical fatigue resistance by optimizing the nanoporous structure of inkjet-printed Ag electrodes for flexible devices. <i>Nanotechnology</i> , 2014, 25, 125706.	2.7	28
10	Simulated Soft Tissue Nanoindentation: A Finite Element Study. <i>Journal of Materials Research</i> , 2005, 20, 1979-1994.	2.6	19
11	Association of White Matter Hyperintensities With Pathology and Progression of Parkinsonism in Aging. <i>JAMA Neurology</i> , 2021, 78, 1494.	9.3	19
12	A CMOS image sensor with stacked photodiodes for lensless observation system of digital enzyme-linked immunosorbent assay. <i>Japanese Journal of Applied Physics</i> , 2014, 53, 04EL02.	1.6	18
13	Multicenter Evaluation of the Quidel Lyra Direct C. difficile Nucleic Acid Amplification Assay. <i>Journal of Clinical Microbiology</i> , 2014, 52, 1998-2002.	4.4	18
14	Implantable micro-optical semiconductor devices for optical theranostics in deep tissue. <i>Applied Physics Express</i> , 2016, 9, 047001.	2.4	18
15	Exposure to MIV-150 from a High-Dose Intravaginal Ring Results in Limited Emergence of Drug Resistance Mutations in SHIV-RT Infected Rhesus Macaques. <i>PLoS ONE</i> , 2014, 9, e89300.	2.5	17
16	Intrinsic signal imaging of brain function using a small implantable CMOS imaging device. <i>Japanese Journal of Applied Physics</i> , 2015, 54, 04DL10.	1.6	17
17	Probing the W tb vertex structure in t -channel single-top-quark production and decay in pp collisions at $s = 8 \sqrt{s} = 8 \text{ TeV}$ with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2017, 2017, 1.	4.8	17
18	Family Home Visiting Outcomes for Latina Mothers With and Without Mental Health Problems. <i>Public Health Nursing</i> , 2013, 30, 429-438.	1.5	14

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19	Perineal Wound Closure Following Abdominoperineal Resection and Pelvic Exenteration for Cancer: A Systematic Review and Meta-Analysis. <i>Cancers</i> , 2021, 13, 721.	3.8	14
20	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
21	Feasibility of [68Ga]Ga-FAPI-46 PET/CT for detection of nodal and hematogenous spread in high-grade urothelial carcinoma. <i>European Journal of Nuclear Medicine and Molecular Imaging</i> , 2022, 49, 3571-3580.	6.7	14
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	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
24	Implantable CMOS imaging device with absorption filters for green fluorescence imaging. <i>Proceedings of SPIE</i> , 2014, , .	1.0	10
25	Micro-light-pipe array with an excitation attenuation filter for lensless digital enzyme-linked immunosorbent assay. <i>Japanese Journal of Applied Physics</i> , 2016, 55, 03DF03.	1.6	10
26	Intramuscular Perforator Dissection with the Hydrodissection Technique. <i>Journal of Reconstructive Microsurgery</i> , 2012, 29, 045-050.	2.1	9
27	A new method of poly(aspartic acid) synthesis under microwave radiation. <i>Polimery</i> , 2005, 50, 812-820.	0.7	9
28	Dual-mode lensless imaging device for digital enzyme linked immunosorbent assay. <i>Proceedings of SPIE</i> , 2014, , .	1.0	8
29	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, , .		8
30	Lensless dual-color fluorescence imaging device using hybrid filter. <i>Japanese Journal of Applied Physics</i> , 2022, 61, SC1020.	1.6	8
31	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
32	In Vitro Long-Term Performance Evaluation and Improvement in the Response Time of CMOS-Based Implantable Glucose Sensors. <i>IEEE Design and Test</i> , 2016, 33, 37-48.	1.4	7
33	Multispectral Near-infrared Imaging Technologies for Nonmydriatic Fundus Camera. , 2019, , .		7
34	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
35	Ultrasmall compact CMOS imaging system for bioluminescence reporter-based live gene expression analysis. <i>Journal of Biomedical Optics</i> , 2021, 26, .	2.8	5
36	Experimental Study on Fire Resistance of Concrete Beams Made with Iron Tailings Sand. <i>Buildings</i> , 2022, 12, 1816.	3.2	5

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37	Near-infrared fundus camera with a patterned interference filter for the retinal scattering detection. Japanese Journal of Applied Physics, 2021, 60, SBBL07.	1.6	4
38	Miniaturized LED light source with an excitation filter for fluorescent imaging. Japanese Journal of Applied Physics, 2021, 60, SBBG07.	1.6	4
39	Honeycomb-type retinal device using chemically derived iridium oxide biointerfaces. AIP Advances, 2021, 11, .	1.3	4
40	High coupling efficiency contact imaging system having micro light pipe array for a digital enzyme-linked immunosorbent assay. , 2015, , .		3
41	Effects of low-concentration atropine eye drops on the optical quality of the eyes in myopic children. Indian Journal of Ophthalmology, 2022, 70, 2107.	1.3	3
42	Thin and Scalable Hybrid Emission Filter via Plasma Etching for Low-Invasive Fluorescence Detection. Sensors, 2023, 23, 3695.	4.0	3
43	Scheduling Test Execution of WBEM Applications. , 2009, , .		2
44	On-chip fluorescence detection system with high-density microchamber array based on CMOS image sensor. , 2016, , .		2
45	Compact Lensless Fluorescence Counting System for Single Molecular Assay. IEEE Transactions on Biomedical Circuits and Systems, 2018, 12, 1177-1185.	4.5	2
46	Image Sensor with Hybrid Emission Filter for <i>in-vivo</i> Fluorescent Imaging. IEEJ Transactions on Sensors and Micromachines, 2021, 141, 71-76.	0.1	2
47	Image sensor with hybrid emission filter for in vivo fluorescent imaging. Electronics and Communications in Japan, 2021, 104, e12313.	0.5	2
48	Enhancing infrared color reproducibility through multispectral image processing using RGB and three infrared channels. Optical Engineering, 2022, 61, .	1.0	2
49	A1-7 Approaches to large scale production of AAV-vectors. , 2012, , 71-82.		2
50	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
51	A CMOS image sensor with low fixed pattern noise suitable for lensless observation system of digital enzyme-linked immunosorbent assay (ELISA). , 2013, , .		1
52	Demonstration of implantable CMOS image sensors for functional brain imaging. , 2014, , .		1
53	An implantable image sensor with self-reset function for brain imaging. , 2014, , .		1
54	Compact lensless digital counting system for fluorescent micro-reaction-chamber array. , 2016, , .		1

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55	Consultation rate and chlamydia positivity among ethnic minority clients at STI clinics in the Netherlands. PLoS ONE, 2021, 16, e0247130.	2.5	1
56	"CLEAN" PROPELLANTS FOR COMMERCIAL APPLICATIONS. International Journal of Energetic Materials and Chemical Propulsion, 1997, 4, 430-441.	0.3	1
57	Fabrication of thin composite emission filter for high-performance lens-free fluorescent imager. , 2020, , .		1
58	[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
59	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
60	Exposure Time Control Method for Higher Intermediate Frequency in Optical Heterodyne Imaging and Its Application to Electric-Field Imaging Based on Electro-Optic Effect. Sensors, 2024, 24, 1249.	4.0	1
61	Antibacterial efficacy and membrane mechanism of action of the <i>Serratia</i> -derived non-ionic lipopeptide, serrawettin W2-FL10. Microbiology Spectrum, 2024, 12, .	3.0	1
62	US-Studie: hoher Opioid-Konsum in der Schwangerschaft. Journal Club Schmerzmedizin, 2014, 3, 72-72.	0.0	0
63	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
64	Miniaturized CMOS imaging device for implantable applications. , 2020, , .		0
65	Implantable Fluorescent CMOS Imaging Device. , 2020, , .		0
66	Optical Powering Platform for Ultra-Small Implantable Devices. IEJ Transactions on Sensors and Micromachines, 2021, 141, 63-70.	0.1	0
67	Advanced Multi-NIR Spectral Image Sensor with Optimized Vision Sensing System and Its Impact on Innovative Applications. , 2021, , .		0
68	Randles circuit model for characterizing a porous stimulating electrode of the retinal prosthesis. Electronics and Communications in Japan, 2021, 104, e12324.	0.5	0
69	CMOS-Based Implantable Glucose Monitoring Device with Glucose-Responsive Fluorescent Hydrogel. , 2015, , .		0
70	Lensless CMOS Imaging Device for Fluorescent and Non-Fluorescent Imaging Dedicated to Digital ELISA. IEJ Transactions on Sensors and Micromachines, 2016, 136, 12-17.	0.1	0
71	Spatial Resolution Improvement of Lensless Fluorescence Imaging Device with Hybrid Emission Filter. , 2020, , .		0
72	An implantable light source for in-vivo fluorescence image sensor. , 2020, , .		0

#	ARTICLE	IF	CITATIONS
73	A sociedade enfrenta suas organiza�es? Intera�o entre organiza�es e sociedade nas m�dias sociais articulada pelo discurso da sustentabilidade.. Esferas, 2012, , .	0.0	0
74	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
75	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
76	Demonstration of multi-point stimulation with AC-driven CMOS chips for retinal prosthesis. Japanese Journal of Applied Physics, 2024, 63, 03SP22.	1.6	0
77	TCTAP C-109 Decode and Deliver. Journal of the American College of Cardiology, 2024, 83, S222-S223.	5.6	0
78	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