

# 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

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82  
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82  
times ranked

1649  
citing authors

#	ARTICLE	IF	CITATIONS
1	THz near-field intensity distribution imaging in the 0.3 THz band using a highly sensitive polarization CMOS image sensor using a 0.35 $\mu$ m CMOS process. Japanese Journal of Applied Physics, 2024, 63, 03SP66.	1.6	0
2	Demonstration of multi-point stimulation with AC-driven CMOS chips for retinal prosthesis. Japanese Journal of Applied Physics, 2024, 63, 03SP22.	1.6	0
3	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
4	TCTAP C-109 Decode and Deliver. Journal of the American College of Cardiology, 2024, 83, S222-S223.	5.6	0
5	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
6	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
7	Electrochemical activities of Fe <sub>2</sub> O <sub>3</sub> -modified microelectrode for dopamine detection using fast-scan cyclic voltammetry. AIP Advances, 2023, 13, 025026.	1.3	2
8	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
9	Thin and Scalable Hybrid Emission Filter via Plasma Etching for Low-Invasive Fluorescence Detection. Sensors, 2023, 23, 3695.	4.0	3
10	Lensless dual-color fluorescence imaging device using hybrid filter. Japanese Journal of Applied Physics, 2022, 61, SC1020.	1.6	8
11	Polarization Image Sensor for Highly Sensitive Polarization Modulation Imaging Based on Stacked Polarizers. IEEE Transactions on Electron Devices, 2022, 69, 2924-2931.	3.2	14
12	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.	4.2	8
13	[Invited Paper] Near-infrared Colorized Imaging Technologies and Their Fundus Camera Applications. IEEE Transactions on Media Technology and Applications, 2022, 10, 59-68.	0.5	1
14	Feasibility of [68Ga]Ga-FAPI-46 PET/CT for detection of nodal and hematogenous spread in high-grade urothelial carcinoma. European Journal of Nuclear Medicine and Molecular Imaging, 2022, 49, 3571-3580.	6.7	14
15	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
16	Enhancing infrared color reproducibility through multispectral image processing using RGB and three infrared channels. Optical Engineering, 2022, 61, .	1.0	2
17	Experimental Study on Fire Resistance of Concrete Beams Made with Iron Tailings Sand. Buildings, 2022, 12, 1816.	3.2	5
18	Micro-LED Array-Based Photo-Stimulation Devices for Optogenetics in Rat and Macaque Monkey Brains. IEEE Access, 2021, 9, 127937-127949.	4.4	12

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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	Consultation rate and chlamydia positivity among ethnic minority clients at STI clinics in the Netherlands. <i>PLoS ONE</i> , 2021, 16, e0247130.	2.5	1
21	Optical Powering Platform for Ultra-Small Implantable Devices. <i>IEEJ Transactions on Sensors and Micromachines</i> , 2021, 141, 63-70.	0.1	0
22	Near-infrared fundus camera with a patterned interference filter for the retinal scattering detection. <i>Japanese Journal of Applied Physics</i> , 2021, 60, SBBL07.	1.6	4
23	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
24	Miniaturized LED light source with an excitation filter for fluorescent imaging. <i>Japanese Journal of Applied Physics</i> , 2021, 60, SBBG07.	1.6	4
25	Image sensor with hybrid emission filter for <i>in vivo</i> fluorescent imaging. <i>Electronics and Communications in Japan</i> , 2021, 104, e12313.	0.5	2
26	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
27	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
28	Advanced Multi-NIR Spectral Image Sensor with Optimized Vision Sensing System and Its Impact on Innovative Applications. , 2021, , .		0
29	Randles circuit model for characterizing a porous stimulating electrode of the retinal prosthesis. <i>Electronics and Communications in Japan</i> , 2021, 104, e12324.	0.5	0
30	Honeycomb-type retinal device using chemically derived iridium oxide biointerfaces. <i>AIP Advances</i> , 2021, 11, .	1.3	4
31	Association of White Matter Hyperintensities With Pathology and Progression of Parkinsonism in Aging. <i>JAMA Neurology</i> , 2021, 78, 1494.	9.3	19
32	Ultrasmall compact CMOS imaging system for bioluminescence reporter-based live gene expression analysis. <i>Journal of Biomedical Optics</i> , 2021, 26, .	2.8	5
33	Co-regulation of the transcription controlling ATF2 phosphoswitch by JNK and p38. <i>Nature Communications</i> , 2020, 11, 5769.	13.2	34
34	Miniaturized CMOS imaging device for implantable applications. , 2020, , .		0
35	Implantable Fluorescent CMOS Imaging Device. , 2020, , .		0
36	Fabrication of thin composite emission filter for high-performance lens-free fluorescent imager. , 2020, , .		1

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37	Spatial Resolution Improvement of Lensless Fluorescence Imaging Device with Hybrid Emission Filter. , 2020, , .		0
38	An implantable light source for in-vivo fluorescence image sensor. , 2020, , .		0
39	Multispectral Near-infrared Imaging Technologies for Nonmydratic Fundus Camera. , 2019, , .		7
40	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
41	Compact Lensless Fluorescence Counting System for Single Molecular Assay. IEEE Transactions on Biomedical Circuits and Systems, 2018, 12, 1177-1185.	4.5	2
42	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. Journal of High Energy Physics, 2017, 2017, 1.	4.8	17
43	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
44	Implantable micro-optical semiconductor devices for optical theranostics in deep tissue. Applied Physics Express, 2016, 9, 047001.	2.4	18
45	Compact lensless digital counting system for fluorescent micro-reaction-chamber array. , 2016, , .		1
46	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.	1.4	7
47	On-chip fluorescence detection system with high-density microchamber array based on CMOS image sensor. , 2016, , .		2
48	Micro-light-pipe array with an excitation attenuation filter for lensless digital enzyme-linked immunosorbent assay. Japanese Journal of Applied Physics, 2016, 55, 03DF03.	1.6	10
49	An Implantable CMOS Image Sensor With Self-Reset Pixels for Functional Brain Imaging. IEEE Transactions on Electron Devices, 2016, 63, 215-222.	3.2	30
50	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
51	High coupling efficiency contact imaging system having micro light pipe array for a digital enzyme-linked immunosorbent assay. , 2015, , .		3
52	Intrinsic signal imaging of brain function using a small implantable CMOS imaging device. Japanese Journal of Applied Physics, 2015, 54, 04DL10.	1.6	17
53	Intravital fluorescence imaging of mouse brain using implantable semiconductor devices and epi-illumination of biological tissue. Biomedical Optics Express, 2015, 6, 1553.	3.0	31
54	CMOS-Based Implantable Glucose Monitoring Device with Glucose-Responsive Fluorescent Hydrogel. , 2015, , .		0

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55	Exposure to MIV-150 from a High-Dose Intravaginal Ring Results in Limited Emergence of Drug Resistance Mutations in SHIV-RT Infected Rhesus Macaques. PLoS ONE, 2014, 9, e89300.	2.5	17
56	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.	1.6	18
57	Improving mechanical fatigue resistance by optimizing the nanoporous structure of inkjet-printed Ag electrodes for flexible devices. Nanotechnology, 2014, 25, 125706.	2.7	28
58	Demonstration of implantable CMOS image sensors for functional brain imaging. , 2014, , .		1
59	An implantable image sensor with self-reset function for brain imaging. , 2014, , .		1
60	US-Studie: hoher Opioid-Konsum in der Schwangerschaft. Journal Club Schmerzmedizin, 2014, 3, 72-72.	0.0	0
61	An implantable CMOS device for blood-flow imaging during experiments on freely moving rats. Japanese Journal of Applied Physics, 2014, 53, 04EL05.	1.6	41
62	Multicenter Evaluation of the Quidel Lyra Direct C. difficile Nucleic Acid Amplification Assay. Journal of Clinical Microbiology, 2014, 52, 1998-2002.	4.4	18
63	Implantable CMOS imaging device with absorption filters for green fluorescence imaging. Proceedings of SPIE, 2014, , .	1.0	10
64	Dual-mode lensless imaging device for digital enzyme linked immunosorbent assay. Proceedings of SPIE, 2014, , .	1.0	8
65	A CMOS image sensor with low fixed pattern noise suitable for lensless observation system of digital enzyme-linked immunosorbent assay (ELISA). , 2013, , .		1
66	Family Home Visiting Outcomes for Latina Mothers With and Without Mental Health Problems. Public Health Nursing, 2013, 30, 429-438.	1.5	14
67	Intramuscular Perforator Dissection with the Hydrodissection Technique. Journal of Reconstructive Microsurgery, 2012, 29, 045-050.	2.1	9
68	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
69	A1-7 Approaches to large scale production of AAV-vectors. , 2012, , 71-82.		2
70	Scheduling Test Execution of WBEM Applications. , 2009, , .		2
71	Ultraviolet-inscribed long period gratings in all-solid photonic bandgap fibers. Optics Express, 2008, 16, 21119.	3.4	39
72	Simulated Soft Tissue Nanoindentation: A Finite Element Study. Journal of Materials Research, 2005, 20, 1979-1994.	2.6	19

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73	A new method of poly(aspartic acid) synthesis under microwave radiation. Polimery, 2005, 50, 812-820.	0.7	9
74	Noninvasive optical imaging in the visual cortex in young infants. Human Brain Mapping, 2004, 22, 122-132.	3.7	90
75	Polarization Qubit Phase Gate in Driven Atomic Media. Physical Review Letters, 2003, 90, 197902.	8.0	184
76	Design, docking, and evaluation of multiple libraries against multiple targets. Proteins: Structure, Function and Bioinformatics, 2001, 42, 296-318.	3.2	66
77	"CLEAN" PROPELLANTS FOR COMMERCIAL APPLICATIONS. International Journal of Energetic Materials and Chemical Propulsion, 1997, 4, 430-441.	0.3	1
78	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