

# Kentaro Iwami

## List of Publications by Year in descending order

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69  
papers

481  
citations

840776

11  
h-index

713466

21  
g-index

69  
all docs

69  
docs citations

69  
times ranked

530  
citing authors

#	ARTICLE	IF	CITATIONS
1	Dynamic Braille display using SMA coil actuator and magnetic latch. Sensors and Actuators A: Physical, 2005, 119, 316-322.	4.1	71
2	Bio rapid prototyping by extruding/aspirating/refilling thermoreversible hydrogel. Biofabrication, 2010, 2, 014108.	7.1	67
3	Demonstration of focal length tuning by rotational varifocal moiré metalens in an ir-A wavelength. Optics Express, 2020, 28, 35602.	3.4	44
4	Ultrasmall radial polarizer array based on patterned plasmonic nanoslits. Applied Physics Letters, 2012, 101, .	3.3	41
5	Metasurface holographic movie: a cinematographic approach. Optics Express, 2020, 28, 23761.	3.4	25
6	Rotational varifocal moiré metalens made of single-crystal silicon meta-atoms for visible wavelengths. Nanophotonics, 2022, 11, 1941-1948.	6.0	25
7	Boehmite nanorod/gold nanoparticle nanocomposite film for an easy-to-use optical humidity sensor. Sensors and Actuators B: Chemical, 2012, 168, 429-435.	7.8	23
8	Highly-efficient and angle-independent zero-order half waveplate at broad visible wavelength based on Au nanofin array embedded in dielectric. Optics Express, 2016, 24, 7966.	3.4	21
9	An Au nanofin array for high efficiency plasmonic optical retarders at visible wavelengths. Applied Physics Letters, 2015, 106, .	3.3	20
10	Birefringent reconfigurable metasurface at visible wavelengths by MEMS nanograting. Applied Physics Letters, 2018, 113, .	3.3	13
11	Demonstration of a multicolor metasurface holographic movie based on a cinematographic approach. Optics Express, 2022, 30, 17591.	3.4	13
12	Optical Near-Field Probe Integrated With Self-Aligned Bow-Tie Antenna and Electrostatic Actuator for Local Field Enhancement. Journal of Microelectromechanical Systems, 2006, 15, 1201-1208.	2.5	9
13	Detection of acid moisture in photovoltaic modules using a dual wavelength pH-sensitive fluorescent dye. Japanese Journal of Applied Physics, 2014, 53, 04ER18.	1.5	9
14	Micro-Optical Line Generator Metalens for a Visible Wavelength Based on Octagonal Nanopillars Made of Single-Crystalline Silicon. IEEE Sensors Journal, 2022, 22, 14851-14861.	4.7	9
15	Electron field emission from a gold tip under laser irradiation at the plasmon-resonant wavelength. Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics, 2011, 29, .	1.2	8
16	Development of a pH sensor based on a nanostructured filter adding pH-sensitive fluorescent dye for detecting acetic acid in photovoltaic modules. Japanese Journal of Applied Physics, 2015, 54, 08KG07.	1.5	8
17	Observation of mitochondrial activity based on temporal and spatial pH variations measured by near-field fluorescent ratiometry. Science China: Physics, Mechanics and Astronomy, 2011, 54, 2225-2229.	5.1	7
18	Detection of acetic acid produced in photovoltaic modules based on tin film corrosion during damp heat test. Japanese Journal of Applied Physics, 2018, 57, 08RG16.	1.5	7

#	ARTICLE	IF	CITATIONS
19	Plasmon-resonance dew condensation sensor made of gold-ceramic nanocomposite and its application in condensation prevention. <i>Sensors and Actuators B: Chemical</i> , 2013, 184, 301-305.	7.8	6
20	Analysis of mitochondrial mechanical dynamics using a confocal fluorescence microscope with a bent optical fibre. <i>Journal of Microscopy</i> , 2015, 260, 140-151.	1.8	6
21	Micromachined Optical Near-Field Bow-Tie Antenna Probe with Integrated Electrostatic Actuator. <i>Japanese Journal of Applied Physics</i> , 2005, 44, L445-L448.	1.5	5
22	Measurement of nanoparticle sizes by conventional optical microscopy with standing evanescent field illumination. <i>Optics Letters</i> , 2008, 33, 2794.	3.3	5
23	Direct Evaluation of Anchoring Effects and Vertical Orientation Profiling of Liquid Crystal Films by Near-Field Birefringence Measurement. <i>Applied Physics Express</i> , 2008, 1, 111501.	2.4	5
24	A New Approach to Terahertz Local Spectroscopy Using Microfabricated Scanning Near-Field Probe. <i>Japanese Journal of Applied Physics</i> , 2008, 47, 8095.	1.5	4
25	pH Measurement Using Dual-Wavelength Fluorescent Ratio by Two-Photon Excitation for Mitochondrial Activity. <i>Japanese Journal of Applied Physics</i> , 2012, 51, 117001.	1.5	4
26	Non-Destructive Measurement of Acetic Acid and Its Distribution in a Photovoltaic Module during Damp Heat Testing Using pH-Sensitive Fluorescent Dye Sensors. <i>Sensors</i> , 2022, 22, 2520.	3.8	4
27	Theoretical analysis of hot electron collection in metal-insulator-metal devices. , 2011, , .		3
28	Sputter Deposited Zinc Oxide Photoconductive Antenna on Silicon Substrate for Sub-Terahertz Time-Domain Spectroscopy. <i>IEEJ Transactions on Sensors and Micromachines</i> , 2007, 127, 508-509.	0.1	2
29	Localized Surface Plasmon Resonance Dew Sensor for Use Under Low Humidity Conditions. <i>Japanese Journal of Applied Physics</i> , 2012, 51, 027301.	1.5	2
30	pH Measurement Using Dual-Wavelength Fluorescent Ratio by Two-Photon Excitation for Mitochondrial Activity. <i>Japanese Journal of Applied Physics</i> , 2012, 51, 117001.	1.5	2
31	Microfabrication of a Free-Standing NiW Alloy Film as a Wavelength-Selective Surface. <i>Journal of Computational and Theoretical Nanoscience</i> , 2015, 12, 814-819.	0.4	2
32	Dew Condensation Sensor Using Quartz Tuning Fork Coated with Polystyrene Sphere Self-Assembled Monolayer. <i>IEEJ Transactions on Sensors and Micromachines</i> , 2010, 130, 501-502.	0.1	2
33	Rapid Prototyping in Biomedical Engineering. , 0, , .		2
34	Sputter deposited zinc oxide photoconductive antenna for terahertz time-domain spectroscopy. , 2008, , .		1
35	Dynamic Response of Liquid Crystal Molecules in In-Plane Switching Mode Measured by Birefringence Scanning Near-Field Optical Microscopy. <i>Japanese Journal of Applied Physics</i> , 2009, 48, 030212.	1.5	1
36	Dual wavelength fluorescent ratiometric pH measurement by scanning near-field optical microscopy. <i>Proceedings of SPIE</i> , 2010, , .	0.8	1

#	ARTICLE	IF	CITATIONS
37	Plasmonic half-waveplate based on gold nanoslit and its application to ultrasmall radial polarization converter. , 2013, , .		1
38	Simultaneous fabrication of a microcavity absorberâ€‘emitter on a Niâ€‘W alloy film. Japanese Journal of Applied Physics, 2017, 56, 100310.	1.5	1
39	Transmission Modulation of Micro Retarder Using Out-of-Plane Thermally-Driven Au Nanograting. IEEJ Transactions on Sensors and Micromachines, 2017, 137, 400-406.	0.1	1
40	Acetic acid detection in photovoltaic modules during ultraviolet irradiation and damp-heat combined tests. Japanese Journal of Applied Physics, 0, , .	1.5	1
41	Measurement of nano-particles size by evanescent interference field with conventional optical microscope. Proceedings of SPIE, 2008, , .	0.8	0
42	Microfabricated scanning near-field probe for sub-terahertz spectroscopy. Proceedings of SPIE, 2008, , .	0.8	0
43	Dew condensation sensor based on surface plasmon resonance of periodic silver nanostructure on AT-cut quartz crystal. , 2010, , .		0
44	Electron field emission based on plasmon resonance. Proceedings of SPIE, 2010, , .	0.8	0
45	8.3: Field emission properties under laser irradiation at the plasmon resonant wavelength. , 2010, , .		0
46	Nanonewton thrust measurement of photon pressure propulsion using semiconductor laser. , 2011, , .		0
47	Configurable optical retarder based on plasmonic grating integrated with bimorph actuator. , 2014, , .		0
48	Work Function of NiW Alloys for Use in Thermionic Energy Converters. Materials Science Forum, 2015, 833, 71-74.	0.3	0
49	Birefringence modulation of thermally driven metal nanograting. Proceedings of SPIE, 2015, , .	0.8	0
50	Development of optically controlled field emitter array with integrated gate electrode. , 2016, , .		0
51	Evaluation of mitochondrial activity by two-photon absorption with near-field multi-optical fiber probes. Japanese Journal of Applied Physics, 2018, 57, 046601.	1.5	0
52	Birefringence Modulation of Reconfigurable Metasurface Based on Thermal Bimorph Actuator at the Visible Range. , 2019, , .		0
53	Color animation by dielectric metasurface hologram made of silicon nanopillar. , 2021, , .		0
54	Near-Field Optics and MEMS Technology. The Review of Laser Engineering, 2005, 33, 739-744.	0.0	0

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55	OS6-2-2 Dew detection using plasmon resonance on nanoporous surface and its application to condensation prevention sensor. The Proceedings of the Symposium on Micro-Nano Science and Technology, 2012, 2012.4, 177-178.	0.0	0
56	Surface Plasmon Dew Sensing Based on Condensation to Nanopores. The Review of Laser Engineering, 2013, 41, 196.	0.0	0
57	21306 Simultaneous measurement of mechanical and physiological properties of a mitochondrion by laser confocal microscope with a bent optical probe. The Proceedings of Conference of Kanto Branch, 2014, 2014.20, _21306-1_-_21306-2_.	0.0	0
58	21pm3-PM016 Fabrication of free-standing NiW film for wavelength-selective radiation source. The Proceedings of the Symposium on Micro-Nano Science and Technology, 2014, 2014.6, _21pm3-PM0-21pm3-PM0.	0.0	0
59	21309 Ultrasmall optical retarder based on metal nanoslit structure. The Proceedings of Conference of Kanto Branch, 2014, 2014.20, _21309-1_-_21309-2_.	0.0	0
60	10801 Thermionic Energy Converter Assisted by Plasmon Resonance. The Proceedings of Conference of Kanto Branch, 2014, 2014.20, _10801-1_-_10801-2_.	0.0	0
61	21302 Development of spectroscopic birefringence measurement using double rotating polarization devices. The Proceedings of Conference of Kanto Branch, 2014, 2014.20, _21302-1_-_21302-2_.	0.0	0
62	21120 Plasmon-Assisted Field emitter Array for High Throughput Electron Beam Lithography. The Proceedings of Conference of Kanto Branch, 2014, 2014.20, _21120-1_-_21120-2_.	0.0	0
63	21207 Study on Micro fabrication of Sapphire for a Heat-Resistant Pressure Sensor. The Proceedings of Conference of Kanto Branch, 2014, 2014.20, _21207-1_-_21207-2_.	0.0	0
64	An Optical Retarder at Visible to Ultraviolet Wavelength Based on Al Nanoslit Array. The Review of Laser Engineering, 2015, 43, 304.	0.0	0
65	Internal stress control on electrostatically driven Au nanograting retardation modulator. The Proceedings of the Symposium on Micro-Nano Science and Technology, 2018, 2018.9, 01pm1PN166.	0.0	0
66	Study on gap narrowing of thermionic energy converter using Ni-W alloy. The Proceedings of the Symposium on Micro-Nano Science and Technology, 2018, 2018.9, 30pm4PN68.	0.0	0
67	Development of an Optical Pressure-sensitive Membrane based on Plasmon Resonance on a Gold Island Film. IEEJ Transactions on Sensors and Micromachines, 2020, 140, 374-379.	0.1	0
68	Development of an optical pressure-sensitive membrane based on plasmon resonance on a gold island film. Electronics and Communications in Japan, 2021, 104, e12302.	0.5	0
69	Varifocal Metalens Based on Dielectric Metasurface. Journal of the Japan Society for Precision Engineering, 2022, 88, 370-373.	0.1	0