Yukio Kawano

List of Publications by Year
in descending order

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41	913	623734	454955
papers	citations	14 h-index	30 g-index

41	41	41	952
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Stretchable broadband photo-sensor sheets for nonsampling, source-free, and label-free chemical monitoring by simple deformable wrapping. Science Advances, 2022, 8, eabm4349.	10.3	19
2	Carbon nanotube-based, serially connected terahertz sensor with enhanced thermal and optical efficiencies. Science and Technology of Advanced Materials, 2022, 23, 424-433.	6.1	12
3	Series Photothermoelectric Coupling Between Two Composite Materials for a Freely Attachable Broadband Imaging Sheet. Advanced Photonics Research, 2021, 2, 2000095.	3.6	16
4	A Terahertz Video Camera Patch Sheet with an Adjustable Design based on Selfâ€Aligned, 2D, Suspended Sensor Array Patterning. Advanced Functional Materials, 2021, 31, 2008931.	14.9	26
5	Frequency-Tunable Terahertz Plasmonic Structure Based on the Solid Immersed Method for Sensing. Sensors, 2021, 21, 1419.	3.8	2
6	Robot-assisted, source-camera-coupled multi-view broadband imagers for ubiquitous sensing platform. Nature Communications, 2021, 12, 3009.	12.8	27
7	Internal structure visualization by terahertz computed tomography with carbon nanotube photo-scanner toward multi-frequency image reconstruction. , 2021, , .		0
8	Flexible terahertz imaging systems with single-walled carbon nanotube films. Carbon, 2020, 162, 13-24.	10.3	33
9	Continuously Frequency-Tuneable Plasmonic Structures for Terahertz Bio-sensing and Spectroscopy. Scientific Reports, 2019, 9, 3498.	3.3	26
10	Terahertz detection with an antenna-coupled highly-doped silicon quantum dot. Scientific Reports, 2019, 9, 18574.	3.3	11
11	Dopant-Induced Terahertz Resonance of a Dopant-Rich Silicon Quantum Dot. , 2019, , .		0
12	Thermal Device Design for a Carbon Nanotube Terahertz Camera. ACS Omega, 2018, 3, 3540-3547.	3.5	43
13	Near-field infrared investigations of an arm-terminated spiral structure with bow-tie probe. Journal of Physics Communications, 2018, 2, 105004.	1.2	3
14	Strain-induced photo-thermoelectric terahertz detection. AIP Advances, 2018, 8, .	1.3	3
15	Ge-Core/a-Si-Shell Nanowire-Based Field-Effect Transistor for Sensitive Terahertz Detection. Photonics, 2018, 5, 13.	2.0	9
16	Fermi-Level-Controlled Semiconducting-Separated Carbon Nanotube Films for Flexible Terahertz Imagers. ACS Applied Nano Materials, 2018, 1, 2469-2475.	5.0	46
17	Carbon nanotube woven textile photodetector. Physical Review Materials, 2018, 2, .	2.4	42
18	Terahertz Plasmonics and Nano-Carbon Electronics for Nano-Micro Sensing and Imaging. International Journal of Automation Technology, 2018, 12, 87-96.	1.0	2

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19	Fabrication of optomechanical resonator with spiral bull's eye antenna and evaluation of wavelength detection characteristics. The Proceedings of the Symposium on Micro-Nano Science and Technology, 2018, 2018.9, 31pm2PN136.	0.0	0
20	Terahertz Imaging and Spectroscopy as a Tool for Non-destructive and Non-contact Quality Inspections of Medical Drugs and Polymer Films. Bunseki Kagaku, 2017, 66, 893-899.	0.2	10
21	Chip-Based Near-Field Terahertz Microscopy. IEEE Transactions on Terahertz Science and Technology, 2016, 6, 356-364.	3.1	5
22	Chip-Type Near-Field Terahertz Spectroscopic Imagers and Their Application to a Study of Quantum Transport. Hyomen Kagaku, 2016, 37, 586-592.	0.0	0
23	Terahertz Response of Carbon Nanotubes and Graphene. Journal of the Physical Society of Japan, 2015, 84, 121010.	1.6	3
24	Ge/Si core/shell nanowires with controlled low temperature grown Si shell thickness (Phys. Status) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50	1.8	0
25	Ge/Si core/shell nanowires with controlled low temperature grown Si shell thickness. Physica Status Solidi (A) Applications and Materials Science, 2015, 212, 1578-1581.	1.8	5
26	Semiconductor and graphene devices for nanoscale terahertz imaging and spectroscopy. , 2015, , .		0
27	Figure of Merit for Carbon Nanotube Photothermoelectric Detectors. ACS Nano, 2015, 9, 11618-11627.	14.6	51
28	Carbon Nanotube Terahertz Detector. Nano Letters, 2014, 14, 3953-3958.	9.1	223
29	Applications to Terahertz and Infrared Detectors with Graphene. The Review of Laser Engineering, 2014, 42, 645.	0.0	0
30	Wide-band frequency-tunable terahertz and infrared detection with graphene. Nanotechnology, 2013, 24, 214004.	2.6	80
31	Terahertz waves: a tool for condensed matter, the life sciences and astronomy. Contemporary Physics, 2013, 54, 143-165.	1.8	45
32	Terahertz Detection With Nanoscale Semiconductor Rectifiers. IEEE Sensors Journal, 2013, 13, 24-30.	4.7	1
33	GaAs/AlGaAs field-effect transistor for tunable terahertz detection and spectroscopy with built-in signal modulation. Applied Physics Letters, 2013, 102, .	3.3	15
34	Semiconductor- and carbon-devices for innovative nanoscale THz sensors and imagers. , 2012, , .		0
35	Gate-voltage tunable terahertz detection by a GaAs/AlGaAs quantum device. , 2012, , .		2
36	Terahertz radiation detection through a micro-scale antenna and a silicon-based quantum dot. , 2012, , .		0

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37	Terahertz sensing and imaging based on nano-carbon devices. , 2011, , .		0
38	Scanning nanoelectrometer based on a two-dimensional electron gas transistor with a probe-integrated gate electrode. Applied Physics Letters, 2010, 96, 142109.	3.3	5
39	Scanning Electrometer: Mapping of Electric Potential and Its Fluctuation. Japanese Journal of Applied Physics, 2010, 49, 08LA02.	1.5	2
40	Terahertz sensing with a carbon nanotube/two-dimensional electron gas hybrid transistor. Applied Physics Letters, 2009, 95, 083123.	3.3	44
41	An on-chip near-field terahertz probe and detector. Nature Photonics, 2008, 2, 618-621.	31.4	102