

# Keisuke Takano

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

81 papers	1,120 citations	17 h-index	31 g-index
112 ext. papers	1,538 ext. citations	2.6 avg, IF	3.98 L-index

#	Paper	IF	Citations
81	Time-domain measurement of coherent transition radiation using a photoconductive antenna with micro-structured electrodes. <i>AIP Advances</i> , <b>2021</b> , 11, 125319	1.5	0
80	Shape-dependent infrared reflectance properties of CNT forest metamaterial arrays. <i>Optics Express</i> , <b>2020</b> , 28, 607-625	3.3	7
79	Terahertz emission from gold nanorods irradiated by ultrashort laser pulses of different wavelengths. <i>Scientific Reports</i> , <b>2019</b> , 9, 3280	4.9	9
78	Efficient Optical Modulation of Terahertz Metamaterials Utilizing Organic/Inorganic Semiconductor Hybrid Systems. <i>Springer Series in Materials Science</i> , <b>2019</b> , 117-127	0.9	
77	Development and Applications of Metasurfaces for Terahertz Waves. <i>Springer Series in Materials Science</i> , <b>2019</b> , 99-116	0.9	
76	Marked effects of lateral displacement on the optical transmission properties of stacked artificial dielectric systems composed of metallic sub-wavelength slit arrays. <i>Japanese Journal of Applied Physics</i> , <b>2019</b> , 58, 122004	1.4	1
75	Optical reflectance of patterned frost column-like CNT forest for metamaterial applications. <i>Diamond and Related Materials</i> , <b>2018</b> , 83, 196-203	3.5	2
74	Quantized conductance observed during sintering of silver nanoparticles by intense terahertz pulses. <i>Applied Physics Letters</i> , <b>2018</b> , 112, 163102	3.4	3
73	Significant Volume Expansion as a Precursor to Ablation and Micropattern Formation in Phase Change Material Induced by Intense Terahertz Pulses. <i>Scientific Reports</i> , <b>2018</b> , 8, 2914	4.9	12
72	Enhancing terahertz magnetic near field induced by a micro-split-ring resonator with a tapered waveguide. <i>Optics Letters</i> , <b>2018</b> , 43, 1658-1661	3	11
71	Visible Measurement of Terahertz Power Based on Capsulized Cholesteric Liquid Crystal Film. <i>Applied Sciences (Switzerland)</i> , <b>2018</b> , 8, 2580	2.6	4
70	Insertion effects of natural dielectric between artificial dielectrics formed by metallic sub-wavelength slit arrays. <i>AIP Advances</i> , <b>2018</b> , 8, 095305	1.5	2
69	Waveguide resonance mode response of stacked structures of metallic sub-wavelength slit arrays. <i>Journal of Applied Physics</i> , <b>2018</b> , 123, 183102	2.5	3
68	Quasi-dielectric characteristics of stacked metallic metamaterials. <i>Japanese Journal of Applied Physics</i> , <b>2017</b> , 56, 030306	1.4	
67	Optical damage assessment and recovery investigation of hydrogen-ion and deuterium-ion plasma-irradiated bulk ZnO single crystals. <i>Journal of Applied Physics</i> , <b>2017</b> , 121, 175102	2.5	5
66	The influence of the inner structure of CNT forest metamaterials in the infrared regime. <i>Diamond and Related Materials</i> , <b>2017</b> , 80, 99-107	3.5	4
65	Strong yellow emission of high-conductivity bulk ZnO single crystals irradiated with high-power gyrotron beam. <i>Applied Physics Letters</i> , <b>2017</b> , 111, 031108	3.4	9

- 64 Energy loss of terahertz electromagnetic waves by nano-sized connections in near-self-complementary metallic checkerboard patterns. *Journal of Applied Physics*, **2017**, 122, 063101 2.5 6
- 63 Influence of Distance Between Metal Squares in Checkerboard Patterns on Transmittance Characteristics in the Infrared Region. *Journal of Infrared, Millimeter, and Terahertz Waves*, **2017**, 38, 1098-1106<sup>1</sup>
- 62 Multiple intersection properties of optical resonance modes in metallic metamaterials. *AIP Advances*, **2017**, 7, 035209 1.5 4
- 61 Terahertz Wave Emission from Spontaneously Formed Complex Nanostructures on Silver Ink. *The Review of Laser Engineering*, **2017**, 45, 153 0
- 60 THz Pulse Detection by Multilayered GeTe/SbTe. *ACS Applied Materials & Interfaces*, **2016**, 8, 32408-32413 3.5 13
- 59 LiteBIRD: lite satellite for the study of B-mode polarization and inflation from cosmic microwave background radiation detection **2016**, 16
- 58 LiteBIRD: Mission Overview and Focal Plane Layout. *Journal of Low Temperature Physics*, **2016**, 184, 824-831 5.8
- 57 Crossing behaviors of optical resonance modes in metallic metamaterials. *Applied Physics Express*, **2016**, 9, 032201 2.4 7
- 56 Efficient optical terahertz-transmission modulation in solution-processable organic semiconductor thin films on silicon substrate. *Japanese Journal of Applied Physics*, **2016**, 55, 03DC12 1.4 16
- 55 Optical transmittance investigation of 1-keV ion-irradiated sapphire crystals as potential VUV to NIR window materials of fusion reactors. *AIP Advances*, **2016**, 6, 105108 1.5 1
- 54 ZnO crystal as a potential damage-recoverable window material for fusion reactors. *Optical Materials*, **2016**, 62, 646-650 3.3 4
- 53 Terahertz wave emission from plasmonic chiral metasurfaces. *Applied Physics A: Materials Science and Processing*, **2016**, 122, 1 2.6 6
- 52 Terahertz wave generation from spontaneously formed nanostructures in silver nanoparticle ink. *Optics Letters*, **2016**, 41, 2125-8 3 10
- 51 Application of Terahertz Field Enhancement Effect in Metal Microstructures. *Journal of Infrared, Millimeter, and Terahertz Waves*, **2016**, 37, 1199-1212 2.2 13
- 50 Terahertz path-length lens composed of oblique metal slit array. *Applied Physics A: Materials Science and Processing*, **2015**, 118, 397-402 2.6 2
- 49 Characteristics of H-shaped fractal antenna having VOx absorber for multi-band microbolometer **2015**, 1
- 48 Terahertz laminated-structure polarizer with high extinction ratio and transmission power. *Applied Physics Express*, **2015**, 8, 032201 2.4 17
- 47 Trapping waves with terahertz metamaterial absorber based on isotropic Mie resonators. *Optics Letters*, **2015**, 40, 3197-200 3 48

46	Dispersion, spatial growth rate, and start current of a Cherenkov free-electron laser with negative-index material. <i>Physics of Plasmas</i> , <b>2015</b> , 22, 083111	2.1	3
45	Measurement of beam profiles by terahertz sensor card with cholesteric liquid crystals. <i>Optics Letters</i> , <b>2015</b> , 40, 4456-9	3	14
44	Influence of metal resistivity on transmittance of checkerboard patterns in infrared region <b>2015</b> ,		1
43	Parallel plate lens with metal hole array for terahertz wave band. <i>Applied Physics A: Materials Science and Processing</i> , <b>2014</b> , 115, 403-408	2.6	2
42	Terahertz metamolecules deposited on thin flexible polymer: design, fabrication and experimental characterization. <i>Journal of Optics (United Kingdom)</i> , <b>2014</b> , 16, 094014	1.7	20
41	Spirulina-templated metal microcoils with controlled helical structures for THz electromagnetic responses. <i>Scientific Reports</i> , <b>2014</b> , 4, 4919	4.9	44
40	Crossover from capacitive to inductive electromagnetic responses in near self-complementary metallic checkerboard patterns. <i>Optics Express</i> , <b>2014</b> , 22, 24787-95	3.3	24
39	Investigation of fade-out mechanism of resonance modes in optical transmission using stacked metallic sub-wavelength slit arrays. <i>Journal of Applied Physics</i> , <b>2014</b> , 115, 243104	2.5	8
38	Electromagnetic wave absorption characteristics of H-shaped fractal antenna for dual-band microbolometer and study on the influence of bias line resistivity on microbolometer characteristics. <i>Micro and Nano Letters</i> , <b>2014</b> , 9, 639-643	0.9	3
37	Design of H-shaped fractal antenna for microbolometer and its thermal performance estimation. <i>Electronics Letters</i> , <b>2014</b> , 50, 1410-1412	1.1	3
36	Focusing effect measurements of artificial dielectric multilayer lens with metal rectangular chips for terahertz wave band. <i>Applied Physics A: Materials Science and Processing</i> , <b>2014</b> , 115, 501-508	2.6	4
35	Analysis and design of concave lens with metallic slit array for terahertz wave band. <i>Applied Physics A: Materials Science and Processing</i> , <b>2014</b> , 115, 495-500	2.6	3
34	Batch fabrication of a double-layer metamaterial resonator using scalloping structures. <i>Journal of Micromechanics and Microengineering</i> , <b>2013</b> , 23, 085006	2	4
33	Fabrication and Performance of $\text{TiO}_2$ -Ceramic-Based Metamaterials for Terahertz Frequency Range. <i>IEEE Transactions on Terahertz Science and Technology</i> , <b>2013</b> , 3, 812-819	3.4	13
32	Polarization property of terahertz wave emission from gammadion-type photoconductive antennas. <i>Applied Physics Letters</i> , <b>2013</b> , 103, 111106	3.4	7
31	Radially polarized terahertz waves from a photoconductive antenna with microstructures. <i>Applied Physics Letters</i> , <b>2013</b> , 102, 221118	3.4	17
30	Mechanism of optical terahertz-transmission modulation in an organic/inorganic semiconductor interface and its application to active metamaterials. <i>Optics Letters</i> , <b>2013</b> , 38, 4632-5	3	31
29	Extraordinary optical transmission through incommensurate metal hole arrays in the terahertz region. <i>Journal of the Optical Society of America B: Optical Physics</i> , <b>2013</b> , 30, 2476	1.7	5

28	Tuning the effective refractive index of a thin air gap region sandwiched by metallic metamaterials by lateral displacements. <i>Journal of Applied Physics</i> , <b>2013</b> , 113, 243103	2.5	7
27	Spectroscopic Functions of Multi-Stacked Metallic Plates with Modulated Slit Arrays. <i>Applied Physics Express</i> , <b>2013</b> , 6, 062602	2.4	9
26	Analysis and design of planar dipole array for terahertz magnetic surface wave propagation <b>2013</b> ,		1
25	Asymmetric transmission of planar chiral THz metamaterials for circularly polarized light <b>2013</b> ,		2
24	Design of terahertz wire-grid polarizer of laminated parallel plates on cyclo olefin polymer films for high extinction ratio less than 10 <sup>6</sup> <b>2013</b> ,		1
23	Proposal and analysis of artificial dielectric lens with metallic corrugated structures for terahertz wave band. <i>Applied Physics A: Materials Science and Processing</i> , <b>2012</b> , 109, 1103-1108	2.6	5
22	Analysis of artificial dielectric lens with metallic rectangular chips for terahertz wave band and physical explanation by periodic model. <i>Applied Physics A: Materials Science and Processing</i> , <b>2012</b> , 109, 825-830	2.6	4
21	Optical Phased Array Functions in Double-Layered Metallic Plate Systems with Artificially Modulated Slit Arrays. <i>Applied Physics Express</i> , <b>2012</b> , 5, 042502	2.4	12
20	Remarkable transmission characteristics of optical waves through modulated double-layered metallic slit arrays. <i>AIP Advances</i> , <b>2012</b> , 2, 042112	1.5	7
19	Application of Metamaterials and Meta-Atoms to Terahertz Devices. <i>The Review of Laser Engineering</i> , <b>2012</b> , 40, 508	0	
18	Fabrication and characterization of THz metamaterials <b>2011</b> ,		1
17	Wire-grid polarizer sheet in the terahertz region fabricated by nanoimprint technology. <i>Optics Letters</i> , <b>2011</b> , 36, 2665-7	3	52
16	Smith-Purcell radiation from a grating of negative-index material. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , <b>2011</b> , 637, 135-137	1.2	9
15	Sub-terahertz spectroscopic system using a continuous-wave broad-area laser diode and a spatial filter. <i>Journal of Applied Physics</i> , <b>2011</b> , 110, 063107	2.5	14
14	Electron density measurement of inductively coupled plasmas by terahertz time-domain spectroscopy (THz-TDS). <i>Journal of Applied Physics</i> , <b>2011</b> , 110, 073303	2.5	12
13	Optical switching of terahertz radiation from meta-atom-loaded photoconductive antennas. <i>Applied Physics Letters</i> , <b>2011</b> , 99, 161114	3.4	21
12	A metal-to-insulator transition in cut-wire-grid metamaterials in the terahertz region. <i>Journal of Applied Physics</i> , <b>2010</b> , 107, 024907	2.5	21
11	Three-dimensional bulk metamaterials operating in the terahertz range. <i>Applied Physics Letters</i> , <b>2010</b> , 96, 081105	3.4	42

10	Characteristics and generation process of surface waves excited on a perfect conductor surface. <i>Optics Express</i> , <b>2010</b> , 18, 17576-83	3.3	12
9	Optical transmission anomalies in a double-layered metallic slit array. <i>Optics Express</i> , <b>2010</b> , 18, 17876-82	3.3	25
8	Fabrication of Terahertz Planar Metamaterials Using a Super-Fine Ink-Jet Printer. <i>Applied Physics Express</i> , <b>2010</b> , 3, 016701	2.4	51
7	Electron density measurement for plasmas by terahertz time-domain spectroscopy. <i>Journal of Physics: Conference Series</i> , <b>2010</b> , 227, 012016	0.3	3
6	Terahertz wire-grid polarizers with micrometer-pitch Al gratings. <i>Optics Letters</i> , <b>2009</b> , 34, 274-6	3	132
5	Terahertz absorption spectra of original and generic ceftazidime. <i>Analytical Sciences</i> , <b>2009</b> , 25, 1483-5	1.7	7
4	Application of partial least square on quantitative analysis of L-, D-, and DL-tartaric acid by terahertz absorption spectra. <i>Chemical and Pharmaceutical Bulletin</i> , <b>2008</b> , 56, 305-7	1.9	45
3	Applications of Terahertz Time-Domain Reflectometry. <i>IEEJ Transactions on Fundamentals and Materials</i> , <b>2007</b> , 127, 391-396	0.2	
2	Terahertz spectroscopic imaging of paraffin-embedded liver cancer samples <b>2007</b> ,		2
1	Amyloid fibrils from the viewpoint of protein folding. <i>Cellular and Molecular Life Sciences</i> , <b>2004</b> , 61, 511-524	2.3	119