

Keisuke Takano

List of Publications by Year in descending order

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112
papers

1,688
citations

236912

25
h-index

302107

39
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112
all docs

112
docs citations

112
times ranked

1671
citing authors

#	ARTICLE	IF	CITATIONS
1	Terahertz wire-grid polarizers with micrometer-pitch Al gratings. <i>Optics Letters</i> , 2009, 34, 274.	3.3	176
2	Amyloid fibrils from the viewpoint of protein folding. <i>Cellular and Molecular Life Sciences</i> , 2004, 61, 511-524.	5.4	141
3	LiteBIRD: Mission Overview and Focal Plane Layout. <i>Journal of Low Temperature Physics</i> , 2016, 184, 824-831.	1.4	70
4	Wire-grid polarizer sheet in the terahertz region fabricated by nanoimprint technology. <i>Optics Letters</i> , 2011, 36, 2665.	3.3	65
5	Fabrication of Terahertz Planar Metamaterials Using a Super-Fine Ink-Jet Printer. <i>Applied Physics Express</i> , 2010, 3, 016701.	2.4	64
6	Spirulina-Templated Metal Microcoils with Controlled Helical Structures for THz Electromagnetic Responses. <i>Scientific Reports</i> , 2014, 4, 4919.	3.3	61
7	Trapping waves with terahertz metamaterial absorber based on isotropic Mie resonators. <i>Optics Letters</i> , 2015, 40, 3197.	3.3	56
8	Significant Volume Expansion as a Precursor to Ablation and Micropattern Formation in Phase Change Material Induced by Intense Terahertz Pulses. <i>Scientific Reports</i> , 2018, 8, 2914.	3.3	55
9	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> , 2008, 56, 305-307.	1.3	47
10	Terahertz wave generation from spontaneously formed nanostructures in silver nanoparticle ink. <i>Optics Letters</i> , 2016, 41, 2125.	3.3	45
11	Application of Terahertz Field Enhancement Effect in Metal Microstructures. <i>Journal of Infrared, Millimeter, and Terahertz Waves</i> , 2016, 37, 1199-1212.	2.2	45
12	Enhancing terahertz magnetic near field induced by a micro-split-ring resonator with a tapered waveguide. <i>Optics Letters</i> , 2018, 43, 1658.	3.3	45
13	Three-dimensional bulk metamaterials operating in the terahertz range. <i>Applied Physics Letters</i> , 2010, 96, .	3.3	43
14	Strong yellow emission of high-conductivity bulk ZnO single crystals irradiated with high-power gyrotron beam. <i>Applied Physics Letters</i> , 2017, 111, .	3.3	42
15	Measurement of beam profiles by terahertz sensor card with cholesteric liquid crystals. <i>Optics Letters</i> , 2015, 40, 4456.	3.3	41
16	Efficient optical terahertz-transmission modulation in solution-processable organic semiconductor thin films on silicon substrate. <i>Japanese Journal of Applied Physics</i> , 2016, 55, 03DC12.	1.5	41
17	THz Pulse Detection by Multilayered GeTe/Sb ₂ Te ₃ . <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 32408-32413.	8.0	40
18	Mechanism of optical terahertz-transmission modulation in an organic/inorganic semiconductor interface and its application to active metamaterials. <i>Optics Letters</i> , 2013, 38, 4632.	3.3	37

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19	Visible Measurement of Terahertz Power Based on Capsulized Cholesteric Liquid Crystal Film. Applied Sciences (Switzerland), 2018, 8, 2580.	2.5	36
20	Terahertz emission from gold nanorods irradiated by ultrashort laser pulses of different wavelengths. Scientific Reports, 2019, 9, 3280.	3.3	31
21	Radially polarized terahertz waves from a photoconductive antenna with microstructures. Applied Physics Letters, 2013, 102, 221118.	3.3	28
22	Optical switching of terahertz radiation from meta-atom-loaded photoconductive antennas. Applied Physics Letters, 2011, 99, 161114.	3.3	27
23	Crossover from capacitive to inductive electromagnetic responses in near self-complementary metallic checkerboard patterns. Optics Express, 2014, 22, 24787.	3.4	27
24	Optical transmission anomalies in a double-layered metallic slit array. Optics Express, 2010, 18, 17876.	3.4	25
25	Shape-dependent infrared reflectance properties of CNT forest metamaterial arrays. Optics Express, 2020, 28, 607.	3.4	25
26	A metal-to-insulator transition in cut-wire-grid metamaterials in the terahertz region. Journal of Applied Physics, 2010, 107, 024907.	2.5	24
27	Terahertz metamolecules deposited on thin flexible polymer: design, fabrication and experimental characterization. Journal of Optics (United Kingdom), 2014, 16, 094014.	2.2	22
28	Terahertz laminated-structure polarizer with high extinction ratio and transmission power. Applied Physics Express, 2015, 8, 032201.	2.4	20
29	LiteBIRD: lite satellite for the study of B-mode polarization and inflation from cosmic microwave background radiation detection. Proceedings of SPIE, 2016, , .	0.8	20
30	Electron density measurement of inductively coupled plasmas by terahertz time-domain spectroscopy (THz-TDS). Journal of Applied Physics, 2011, 110, .	2.5	18
31	Fabrication and Performance of TiO_2 -Ceramic-Based Metamaterials for Terahertz Frequency Range. IEEE Transactions on Terahertz Science and Technology, 2013, 3, 812-819.	3.1	18
32	Sub-terahertz spectroscopic system using a continuous-wave broad-area laser diode and a spatial filter. Journal of Applied Physics, 2011, 110, .	2.5	17
33	Quantized conductance observed during sintering of silver nanoparticles by intense terahertz pulses. Applied Physics Letters, 2018, 112, 163102.	3.3	17
34	Characteristics and generation process of surface waves excited on a perfect conductor surface. Optics Express, 2010, 18, 17576.	3.4	12
35	Optical Phased Array Functions in Double-Layered Metallic Plate Systems with Artificially Modulated Slit Arrays. Applied Physics Express, 2012, 5, 042502.	2.4	12
36	Smith-Purcell radiation from a grating of negative-index material. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2011, 637, 135-137.	1.6	10

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37	Polarization property of terahertz wave emission from gammadion-type photoconductive antennas. Applied Physics Letters, 2013, 103, 111106.	3.3	9
38	Spectroscopic Functions of Multi-Stacked Metallic Plates with Modulated Slit Arrays. Applied Physics Express, 2013, 6, 062602.	2.4	9
39	Investigation of fade-out mechanism of resonance modes in optical transmission using stacked metallic sub-wavelength slit arrays. Journal of Applied Physics, 2014, 115, 243104.	2.5	8
40	Terahertz Absorption Spectra of Original and Generic Ceftazidime. Analytical Sciences, 2009, 25, 1483-1485.	1.6	7
41	Remarkable transmission characteristics of optical waves through modulated double-layered metallic slit arrays. AIP Advances, 2012, 2, 042112.	1.3	7
42	Proposal and analysis of artificial dielectric lens with metallic corrugated structures for terahertz wave band. Applied Physics A: Materials Science and Processing, 2012, 109, 1103-1108.	2.3	7
43	Tuning the effective refractive index of a thin air gap region sandwiched by metallic metamaterials by lateral displacements. Journal of Applied Physics, 2013, 113, .	2.5	7
44	Terahertz wave emission from plasmonic chiral metasurfaces. Applied Physics A: Materials Science and Processing, 2016, 122, 1.	2.3	7
45	Crossing behaviors of optical resonance modes in metallic metamaterials. Applied Physics Express, 2016, 9, 032201.	2.4	7
46	Optical damage assessment and recovery investigation of hydrogen-ion and deuterium-ion plasma-irradiated bulk ZnO single crystals. Journal of Applied Physics, 2017, 121, .	2.5	7
47	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	7
48	Terahertz spectroscopic imaging of paraffin-embedded liver cancer samples. , 2007, , .		6
49	Extraordinary optical transmission through incommensurate metal hole arrays in the terahertz region. Journal of the Optical Society of America B: Optical Physics, 2013, 30, 2476.	2.1	6
50	ZnO crystal as a potential damage-recoverable window material for fusion reactors. Optical Materials, 2016, 62, 646-650.	3.6	6
51	Waveguide resonance mode response of stacked structures of metallic sub-wavelength slit arrays. Journal of Applied Physics, 2018, 123, .	2.5	6
52	Analysis of artificial dielectric lens with metallic rectangular chips for terahertz wave band and physical explanation by periodic model. Applied Physics A: Materials Science and Processing, 2012, 109, 825-830.	2.3	5
53	Focusing effect measurements of artificial dielectric multilayer lens with metal rectangular chips for terahertz wave band. Applied Physics A: Materials Science and Processing, 2014, 115, 501-508.	2.3	5
54	Analysis and design of concave lens with metallic slit array for terahertz wave band. Applied Physics A: Materials Science and Processing, 2014, 115, 495-500.	2.3	5

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55	Dispersion, spatial growth rate, and start current of a Cherenkov free-electron laser with negative-index material. <i>Physics of Plasmas</i> , 2015, 22, 083111.	1.9	5
56	The influence of the inner structure of CNT forest metamaterials in the infrared regime. <i>Diamond and Related Materials</i> , 2017, 80, 99-107.	3.9	5
57	Optical reflectance of patterned frost column-like CNT forest for metamaterial applications. <i>Diamond and Related Materials</i> , 2018, 83, 196-203.	3.9	5
58	Electron density measurement for plasmas by terahertz time-domain spectroscopy. <i>Journal of Physics: Conference Series</i> , 2010, 227, 012016.	0.4	4
59	Batch fabrication of a double-layer metamaterial resonator using scalloping structures. <i>Journal of Micromechanics and Microengineering</i> , 2013, 23, 085006.	2.6	4
60	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> , 2014, 9, 639-643.	1.3	4
61	Parallel plate lens with metal hole array for terahertz wave band. <i>Applied Physics A: Materials Science and Processing</i> , 2014, 115, 403-408.	2.3	4
62	Multiple intersection properties of optical resonance modes in metallic metamaterials. <i>AIP Advances</i> , 2017, 7, .	1.3	4
63	Design of H-shaped fractal antenna for microbolometer and its thermal performance estimation. <i>Electronics Letters</i> , 2014, 50, 1410-1412.	1.0	3
64	Terahertz path-length lens composed of oblique metal slit array. <i>Applied Physics A: Materials Science and Processing</i> , 2015, 118, 397-402.	2.3	3
65	Insertion effects of natural dielectric between artificial dielectrics formed by metallic sub-wavelength slit arrays. <i>AIP Advances</i> , 2018, 8, .	1.3	3
66	Terahertz electromagnetic response of random-bond metal mesh. , 2013, , .		2
67	Asymmetric transmission of planar chiral THz metamaterials for circularly polarized light. , 2013, , .		2
68	Influence of metal resistivity on transmittance of checkerboard patterns in infrared region. , 2015, , .		2
69	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> , 2019, 58, 122004.	1.5	2
70	Terahertz responses of near self-complementary metallic checkerboard patterns. , 2009, , .		1
71	Enhanced terahertz emission from metaatom-loaded photoconductive antennas. , 2010, , .		1
72	Fabrication and characterization of THz metamaterials. , 2011, , .		1

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73	Double-layer wire grid polarizer for improving extinction ratio. , 2013, , .		1
74	Analysis and design of planar dipole array for terahertz magnetic surface wave propagation. , 2013, , .		1
75	Design of terahertz wire-grid polarizer of laminated parallel plates on cyclo olefin polymer films for high extinction ratio less than 10^{22} . , 2013, , .		1
76	Terahertz wire-grid polarizer with Al grating. , 2015, , .		1
77	Characteristics of H-shaped fractal antenna having VO ₂ absorber for multi-band microbolometer. , 2015, , .		1
78	Optical transmittance investigation of 1-keV ion-irradiated sapphire crystals as potential VUV to NIR window materials of fusion reactors. AIP Advances, 2016, 6, .	1.3	1
79	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.	2.2	1
80	Development and Applications of Metasurfaces for Terahertz Waves. Springer Series in Materials Science, 2019, , 99-116.	0.6	1
81	Time-domain measurement of coherent transition radiation using a photoconductive antenna with micro-structured electrodes. AIP Advances, 2021, 11, .	1.3	1
82	Enhanced THz Transmission and Polarization Conversion in Double-Layer Metal Hole Arrays. , 2006, , .		0
83	Strong optical activity in metamaterials of metallic screw arrays. , 2007, , .		0
84	Applications of Terahertz Time-Domain Reflectometry. IEEJ Transactions on Fundamentals and Materials, 2007, 127, 391-396.	0.2	0
85	Enhancement effect of THz emission and detection by THz one-dimensional photonic crystal with a nonlinear material. , 2009, , .		0
86	Application of super-fine ink-jet printer to fabrication of terahertz planer metamaterials. , 2009, , .		0
87	Thz propagation in cut-through metal slit array metamaterials. , 2009, , .		0
88	Estimation of electron densities of plasmas by terahertz time-domain spectroscopy. , 2009, , .		0
89	Wire-grid polarizer in the terahertz region fabricated by nanoimprint technology. , 2010, , .		0
90	Spectral and polarization characteristics of terahertz radiation from metaatom-loaded photoconductive antennas. , 2011, , .		0

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91	Terahertz emission from gammadion-type photoconductive antennas. , 2011, , .		0
92	Analysis and estimation of spectrum characteristics for dipole photoconductive antenna that includes photocurrent and receiving antenna effects. , 2012, , .		0
93	Terahertz response of metamaterials constructed of TiO ₂ spheres and a metal-mesh. , 2012, , .		0
94	Orientalional dependence of inter-meta-atom interactions in the split-ring and circular-ring resonator arrays. , 2013, , .		0
95	Prototype of thermo-optic switch consisting of Mach-Zehnder polymer waveguide drawn by focused proton beam. , 2013, , .		0
96	Planar Goubau Lines for on chip terahertz microscopy. , 2014, , .		0
97	Electromagnetic wave absorption characteristics of H-shaped fractal antenna for multi-band microbolometer. , 2014, , .		0
98	Fabrication of a terahertz wave absorber based on dielectric spheres. , 2015, , .		0
99	Efficient Optical Modulation of Terahertz Transmission in Organic and Inorganic Semiconductor Hybrid System for Printed Terahertz Electronics and Photonics. , 0, , .		0
100	THz detection by multi-layered topological insulator. , 2016, , .		0
101	Terahertz pulse generation from metal nanoparticle ink. , 2016, , .		0
102	Polarization dependence of IR transmittance of checkerboard patterns containing both capacitive and inductive self-complementary patterns. , 2016, , .		0
103	Enhanced terahertz magnetic near-field by tapered waveguide in double split-ring resonator coupled Tb ₃ Ga ₅ O ₁₂ crystal. , 2016, , .		0
104	Quasi-dielectric characteristics of stacked metallic metamaterials. Japanese Journal of Applied Physics, 2017, 56, 030306.	1.5	0
105	Portable THz imager based on a metamaterial-cholesteric liquid crystal hybrid structure. , 2017, , .		0
106	Terahertz spectroscopy study in GeTe/Sb ₂ Te ₃ and Ge ₂ Sb ₂ Te ₅ phase change memory materials. , 2017, , .		0
107	Damage and Micropattem Formation in Ge-Sb-Te Phase Change Materials Induced by Intense Terahertz Pulse Train. , 2018, , .		0
108	Properties of Terahertz Wave Emission from Nano-porous Gold Excited by Femtosecond Laser Pulses. , 2018, , .		0

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109	Development of Metamaterial Structures for THz Frequency Conversion Devices. , 2018, , .		0
110	Application of Metamaterials and Meta-Atoms to Terahertz Devices. The Review of Laser Engineering, 2012, 40, 508.	0.0	0
111	Terahertz Wave Emission from Spontaneously Formed Complex Nanostructures on Silver Ink. The Review of Laser Engineering, 2017, 45, 153.	0.0	0
112	Efficient Optical Modulation of Terahertz Metamaterials Utilizing Organic/Inorganic Semiconductor Hybrid Systems. Springer Series in Materials Science, 2019, , 117-127.	0.6	0