

Kuniaki Konishi

List of Publications by Year in descending order

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Version: 2024-02-01

105
papers

3,351
citations

218381

26
h-index

174990

52
g-index

106
all docs

106
docs citations

106
times ranked

4515
citing authors

#	ARTICLE	IF	CITATIONS
1	The 2017 terahertz science and technology roadmap. <i>Journal Physics D: Applied Physics</i> , 2017, 50, 043001.	1.3	1,160
2	Enantiomeric switching of chiral metamaterial for terahertz polarization modulation employing vertically deformable MEMS spirals. <i>Nature Communications</i> , 2015, 6, 8422.	5.8	224
3	Circularly Polarized Light Emission from Semiconductor Planar Chiral Nanostructures. <i>Physical Review Letters</i> , 2011, 106, 057402.	2.9	147
4	The vectorial control of magnetization by light. <i>Nature Communications</i> , 2011, 2, 362.	5.8	130
5	Terahertz polarization pulse shaping with arbitrary field control. <i>Nature Photonics</i> , 2013, 7, 724-731.	15.6	120
6	Terahertz wave polarization rotation with double layered metal grating of complimentary chiral patterns. <i>Optics Express</i> , 2007, 15, 11117.	1.7	118
7	Polarization-Controlled Circular Second-Harmonic Generation from Metal Hole Arrays with Threefold Rotational Symmetry. <i>Physical Review Letters</i> , 2014, 112, 135502.	2.9	107
8	LiteBIRD satellite: JAXA's new strategic L-class mission for all-sky surveys of cosmic microwave background polarization. , 2020, , .		79
9	Generation of broadband terahertz vortex beams. <i>Optics Letters</i> , 2014, 39, 3714.	1.7	70
10	Terahertz vector beam generation using segmented nonlinear optical crystals with threefold rotational symmetry. <i>Optics Express</i> , 2012, 20, 21896.	1.7	65
11	Updated Design of the CMB Polarization Experiment Satellite LiteBIRD. <i>Journal of Low Temperature Physics</i> , 2020, 199, 1107-1117.	0.6	64
12	Effect of surface plasmon resonance on the optical activity of chiral metal nanogratings. <i>Optics Express</i> , 2007, 15, 9575.	1.7	62
13	Spiral metamaterial for active tuning of optical activity. <i>Applied Physics Letters</i> , 2013, 102, .	1.5	61
14	Photon-drag-induced terahertz emission from graphene. <i>Physical Review B</i> , 2014, 90, .	1.1	59
15	Observation of extraordinary optical activity in planar chiral photonic crystals. <i>Optics Express</i> , 2008, 16, 7189.	1.7	53
16	Light-induced terahertz optical activity. <i>Optics Letters</i> , 2009, 34, 3000.	1.7	51
17	3D printed 1.1 THz waveguides. <i>Electronics Letters</i> , 2017, 53, 471-473.	0.5	50
18	Tailoring Single-Cycle Near Field in a Tunnel Junction with Carrier-Envelope Phase-Controlled Terahertz Electric Fields. <i>Nano Letters</i> , 2018, 18, 5198-5204.	4.5	46

#	ARTICLE	IF	CITATIONS
19	High-Sensitivity and Broadband, Real-Time Terahertz Camera Incorporating a Micro-Bolometer Array<?Pub _newline ?>With Resonant Cavity Structure. IEEE Transactions on Terahertz Science and Electronics, 2016, 11, 181-186.	2.0	42
20	Electronic structure of the hole-doped delafossite oxides CuCr_2S_4 and MgCr_2S_4 . Physical Review B, 2014, 89, 040407.	1.1	41
21	Highly precise and accurate terahertz polarization measurements based on electro-optic sampling with polarization modulation of probe pulses. Optics Express, 2014, 22, 17915.	1.7	41
22	All-photoinduced terahertz optical activity. Optics Letters, 2014, 39, 3274.	1.7	41
23	Real-time broadband terahertz spectroscopic imaging by using a high-sensitivity terahertz camera. Scientific Reports, 2017, 7, 42540.	1.6	40
24	Femtosecond activation of magnetoelectricity. Nature Physics, 2018, 14, 370-374.	6.5	35
25	Efficient coupling of propagating broadband terahertz radial beams to metal wires. Optics Express, 2013, 21, 10642.	1.7	33
26	Ultrafast zero-bias photocurrent and terahertz emission in hybrid perovskites. Communications Physics, 2018, 1, .	2.0	32
27	Polarization control of quantum dot emission by chiral photonic crystal slabs. Optics Letters, 2015, 40, 1528.	1.7	28
28	Optical properties of strain-balanced SiGe planar microcavities with Ge dots on Si substrates. Applied Physics Letters, 2002, 81, 817-819.	1.5	22
29	Experimental realization of all-dielectric planar chiral metamaterials with large optical activity in direct transmission. Thin Solid Films, 2008, 516, 8745-8748.	0.8	21
30	Control of magnetic dipole terahertz radiation by cavity-based phase modulation. Optics Express, 2011, 19, 22550.	1.7	21
31	Ring and unimodal angular-frequency distribution of THz emission from two-color femtosecond plasma spark. Optics Express, 2018, 26, 18202.	1.7	20
32	Concept design of the LiteBIRD satellite for CMB B-mode polarization. , 2018, , .		19
33	Terahertz broadband anti-reflection moth-eye structures fabricated by femtosecond laser processing. OSA Continuum, 2019, 2, 2764.	1.8	19
34	Mechanism of the large polarization rotation effect in the all-dielectric artificially chiral nanogratings. Optics Express, 2009, 17, 688.	1.7	16
35	Tunable and nonlinear metamaterials for controlling circular polarization. Journal of Applied Physics, 2020, 127, 230902.	1.1	16
36	Dynamics of photo-induced terahertz optical activity in metal chiral gratings. Optics Letters, 2012, 37, 3510.	1.7	13

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37	Backward Terahertz Radiation from a Two-Color Femtosecond Laser Filament. JETP Letters, 2017, 106, 706-708.	0.4	13
38	Coherent Detection of Terahertz Radiation with Graphene. ACS Photonics, 2019, 6, 1780-1788.	3.2	13
39	Tunable third harmonic generation in the vacuum ultraviolet region using dielectric nanomembranes. APL Photonics, 2020, 5, 066103.	3.0	12
40	Direct correlation of local fluence to single-pulse ultrashort laser ablated morphology. Communications Materials, 2021, 2, .	2.9	12
41	Broadband, millimeter-wave anti-reflective structures on sapphire ablated with femto-second laser. Journal of Applied Physics, 2020, 128, 225302.	1.1	12
42	Large diameter millimeter-wave low-pass filter made of alumina with laser ablated anti-reflection coating. Optics Express, 2021, 29, 41745.	1.7	12
43	Tb ³⁺ -doped fluorescent glass for biology. Science Advances, 2021, 7, .	4.7	9
44	Surface-plasmon enhanced optical activity in two-dimensional metal chiral networks. Optics Letters, 2012, 37, 4446.	1.7	8
45	Design and development of a polarization modulator unit based on a continuous rotating half-wave plate for LiteBIRD. , 2018, , .		8
46	Breadboard model of polarization modulator unit based on a continuously rotating half-wave plate for the low-frequency telescope of the LiteBIRD space mission. , 2020, , .		8
47	Self-assembly and plasmon-enhanced ultrafast magnetization of Ag@Co hybrid nanoparticles. Optical Materials Express, 2014, 4, 1564.	1.6	7
48	Optical Properties of Strain-Balanced Si _{0.73} Ge _{0.27} Planar Microcavities on Si Substrates. Japanese Journal of Applied Physics, 2002, 41, 2664-2667.	0.8	6
49	Effect of damage incubation in the laser grooving of sapphire. Journal of Applied Physics, 2019, 125, .	1.1	6
50	Circularly polarized vacuum ultraviolet coherent light generation using a square lattice photonic crystal nanomembrane. Optica, 2020, 7, 855.	4.8	6
51	Thick THz metamaterials fabricated by 3D printer for THz high-pass filter application. , 2017, , .		5
52	Development of a model for evaluating propagation loss of metal-coated dielectric terahertz waveguides. Journal of Applied Physics, 2021, 130, .	1.1	5
53	Small and high-density GeSiC dots stacked on buried Ge hut-clusters in Si. Physica E: Low-Dimensional Systems and Nanostructures, 2004, 21, 440-444.	1.3	4
54	Technique for checking design rules for three-dimensional CAD data. , 2010, , .		4

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55	Concept design of low frequency telescope for CMB B-mode polarization satellite LiteBIRD. , 2020, , .		4
56	Suitability of metallic materials for constructing metal-coated dielectric terahertz waveguides. Journal of Applied Physics, 2022, 131, .	1.1	4
57	Overview of the medium and high frequency telescopes of the LiteBIRD space mission. , 2020, , .		3
58	A self-organizing system with cell-specialization. , 0, , .		2
59	Analysis of emergence by intelligent data carrier system for collective robots based on stochastic models. , 0, , .		2
60	Tunable metamaterials by controlling sub-micron gap for the THz range. , 2014, , .		2
61	Single laser to multiple optical fiber device for optogenetics-based epidural spinal cord stimulation. , 2017, , .		2
62	Demonstration of anti-reflective structures over a large area for CMB polarization experiments. , 2020, , .		2
63	Development and evaluation of high-sensitivity terahertz camera. , 2013, , .		1
64	Spiral metamaterial for tunable circular dichroism. , 2013, , .		1
65	The terahertz polarization pulse shaping. , 2013, , .		1
66	Generation of broadband terahertz Laguerre-Gaussian beam. , 2013, , .		1
67	Real-time broadband spectroscopic terahertz imaging with diffraction grating and high-sensitivity terahertz camera. , 2014, , .		1
68	3D terahertz beam profiling from two color laser induced plasma with different focusing. EPJ Web of Conferences, 2017, 149, 05011.	0.1	1
69	Demonstration of broadband anti-reflection coating on sapphire based on mm-wave sub-wavelength structures. , 2019, , .		1
70	Spectrally selective modulation of terahertz radiation beams. Quantum Electronics, 2020, 50, 1029-1033.	0.3	1
71	Mechanical Large Deformation 3D Chiral THz Metamaterial. , 2020, , .		1
72	Ultrashort Pulsed-Laser Fabrication of Silicon Moth-Eye Structures for Terahertz Anti-Reflection. , 2018, , .		1

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73	Demonstration of five-layer phase-flat achromatic half-wave plate with anti-reflective structures and superconducting magnetic bearing for CMB polarization experiments. , 2020, , .		1
74	Material evaluation for inner metallic coating of hollow dielectric THz waveguides. , 2020, , .		1
75	Optimal connection among dynamical modular systems. , 0, , .		0
76	Giant optical activity in quasi-2D planar nanostructures. , 2006, 6110, 83.		0
77	Effect of surface plasmon polaritons on optical activity in chiral metal nanogratings. , 2007, , .		0
78	Enhancement of terahertz optical activity with photo-excitation in metal chiral gratings. , 2008, , .		0
79	Giant optical activity of planar chiral nanostructures and circularly-polarized light emission. , 2009, , .		0
80	Optical activity in metal and dielectric planar chiral gratings. Proceedings of SPIE, 2009, , .	0.8	0
81	All-optical coherent manipulation of magnetization vector in an antiferromagnetic NiO crystal. , 2011, , .		0
82	Terahertz optical activity by photo-carriers with chiral pattern. , 2012, , .		0
83	Terahertz vector beam generation using segmented nonlinear optical crystals with three-fold rotational symmetry. , 2012, , .		0
84	Efficient coupling of broadband terahertz radial beams to metal wires. , 2013, , .		0
85	Emission of quantum dots from waveguides with chiral spatially-modulated upper part. , 2014, , .		0
86	Review: Controlling circularly-polarized emission and second-harmonic generation with artificial nanostructures. , 2014, , .		0
87	Linking energy density with Morphology in laser grooving of sapphire. , 2017, , .		0
88	Two-Color Plasma Terahertz Far-Field Angular Distribution Conversion By Focal Length Variation. , 2018, , .		0
89	Femtosecond Laser Processing and Evaluation of Broadband THz Anti-Reflection Structures. , 2019, , .		0
90	Assessment Of Annealing Treatment For Wrinkle-Less Sio2 Membrane. , 2020, , .		0

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91	Direct writing of optical waveguides in fused silica by the fundamental beam of an Yb:KGW femtosecond laser. OSA Continuum, 2021, 4, 1000.	1.8	0
92	CHIRALITY-INDUCED POLARITON COUPLING IN METAL NANOGRATINGS. , 2007, , .		0
93	Enhanced optical activity of a Terahertz wave with complimentary double-layered metal chiral gratings. , 2008, , .		0
94	Active Control of Terahertz Optical Activity by Photo-Excitation of Metal Chiral Gratings. , 2009, , .		0
95	Circularly-Polarized Light Emission from Semiconductor Planar Chiral Photonic Crystals. , 2010, , .		0
96	Chiral Switchable THz Metamaterial with MEMS Reconfigurable Spirals. , 2016, , .		0
97	Wavelength Dependence of the Laser-Induced Damage Threshold of Al_2O_3 . , 2016, , .		0
98	Fabrication of low loss waveguide using fundamental light of Yb-based femtosecond laser (Conference Presentation). , 2017, , .		0
99	Generation of Intense Terahertz Pulses with Longitudinal Electric fields. , 2018, , .		0
100	Observation of Luminescence Dynamics of Plasma Excited by Femtosecond Laser Ablation of Copper. , 2020, , .		0
101	Tunable Third Harmonic Vacuum Ultraviolet Coherent Light Generation Using Dielectric Nanomembranes. , 2020, , .		0
102	Physical model for evaluating propagation loss of metal-coated dielectric terahertz waveguides. , 2021, , .		0
103	Broadband Anti-Reflection Moth-Eye Structures Realized in the Above 1 THz Region by Laser Processing. , 2020, , .		0
104	Terahertz Polarizer Fabricated by 3D Printing Technology. , 2020, , .		0
105	Supercritical fluid deposition technique enabling metallic coating onto 3D-printed polymer for fabrication of high-aspect-ratio THz devices. , 2020, , .		0