

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	Suitability of metallic materials for constructing metal-coated dielectric terahertz waveguides. Journal of Applied Physics, 2022, 131, .	1.1	4
2	Tb ³⁺ -doped fluorescent glass for biology. Science Advances, 2021, 7, .	4.7	9
3	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
4	Direct correlation of local fluence to single-pulse ultrashort laser ablated morphology. Communications Materials, 2021, 2, .	2.9	12
5	Development of a model for evaluating propagation loss of metal-coated dielectric terahertz waveguides. Journal of Applied Physics, 2021, 130, .	1.1	5
6	Physical model for evaluating propagation loss of metal-coated dielectric terahertz waveguides. , 2021, , .		0
7	Large diameter millimeter-wave low-pass filter made of alumina with laser ablated anti-reflection coating. Optics Express, 2021, 29, 41745.	1.7	12
8	Circularly polarized vacuum ultraviolet coherent light generation using a square lattice photonic crystal nanomembrane. Optica, 2020, 7, 855.	4.8	6
9	Assessment Of Annealing Treatment For Wrinkle-Less SiO ₂ Membrane. , 2020, , .		0
10	Spectrally selective modulation of terahertz radiation beams. Quantum Electronics, 2020, 50, 1029-1033.	0.3	1
11	Tunable and nonlinear metamaterials for controlling circular polarization. Journal of Applied Physics, 2020, 127, 230902.	1.1	16
12	Updated Design of the CMB Polarization Experiment Satellite LiteBIRD. Journal of Low Temperature Physics, 2020, 199, 1107-1117.	0.6	64
13	Tunable third harmonic generation in the vacuum ultraviolet region using dielectric nanomembranes. APL Photonics, 2020, 5, 066103.	3.0	12
14	Broadband, millimeter-wave anti-reflective structures on sapphire ablated with femto-second laser. Journal of Applied Physics, 2020, 128, 225302.	1.1	12
15	Mechanical Large Deformation 3D Chiral THz Metamaterial. , 2020, , .		1
16	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
17	Overview of the medium and high frequency telescopes of the LiteBIRD space mission. , 2020, , .		3
18	LiteBIRD satellite: JAXA's new strategic L-class mission for all-sky surveys of cosmic microwave background polarization. , 2020, , .		79

#	ARTICLE	IF	CITATIONS
19	Observation of Luminescence Dynamics of Plasma Excited by Femtosecond Laser Ablation of Copper. , 2020, , .		0
20	Concept design of low frequency telescope for CMB B-mode polarization satellite LiteBIRD. , 2020, , .		4
21	Demonstration of five-layer phase-flat achromatic half-wave plate with anti-reflective structures and superconducting magnetic bearing for CMB polarization experiments. , 2020, , .		1
22	Demonstration of anti-reflective structures over a large area for CMB polarization experiments. , 2020, , .		2
23	Tunable Third Harmonic Vacuum Ultraviolet Coherent Light Generation Using Dielectric Nanomembranes. , 2020, , .		0
24	Broadband Anti-Reflection Moth-Eye Structures Realized in the Above 1 THz Region by Laser Processing. , 2020, , .		0
25	Terahertz Polarizer Fabricated by 3D Printing Technology. , 2020, , .		0
26	Material evaluation for inner metallic coating of hollow dielectric THz waveguides. , 2020, , .		1
27	Supercritical fluid deposition technique enabling metallic coating onto 3D-printed polymer for fabrication of high-aspect-ratio THz devices. , 2020, , .		0
28	Demonstration of broadband anti-reflection coating on sapphire based on mm-wave sub-wavelength structures. , 2019, , .		1
29	Effect of damage incubation in the laser grooving of sapphire. Journal of Applied Physics, 2019, 125, .	1.1	6
30	Coherent Detection of Terahertz Radiation with Graphene. ACS Photonics, 2019, 6, 1780-1788.	3.2	13
31	Femtosecond Laser Processing and Evaluation of Broadband THz Anti-Reflection Structures. , 2019, , .		0
32	Terahertz broadband anti-reflection moth-eye structures fabricated by femtosecond laser processing. OSA Continuum, 2019, 2, 2764.	1.8	19
33	Ultrafast zero-bias photocurrent and terahertz emission in hybrid perovskites. Communications Physics, 2018, 1, .	2.0	32
34	Femtosecond activation of magnetoelectricity. Nature Physics, 2018, 14, 370-374.	6.5	35
35	Ring and unimodal angular-frequency distribution of THz emission from two-color femtosecond plasma spark. Optics Express, 2018, 26, 18202.	1.7	20
36	Tailoring Single-Cycle Near Field in a Tunnel Junction with Carrier-Envelope Phase-Controlled Terahertz Electric Fields. Nano Letters, 2018, 18, 5198-5204.	4.5	46

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37	Two-Color Plasma Terahertz Far-Field Angular Distribution Conversion By Focal Length Variation. , 2018, , .		0
38	Design and development of a polarization modulator unit based on a continuous rotating half-wave plate for LiteBIRD. , 2018, , .		8
39	Concept design of the LiteBIRD satellite for CMB B-mode polarization. , 2018, , .		19
40	Ultrashort Pulsed-Laser Fabrication of Silicon Moth-Eye Structures for Terahertz Anti-Reflection. , 2018, , .		1
41	Generation of Intense Terahertz Pulses with Longitudinal Electric fields. , 2018, , .		0
42	Real-time broadband terahertz spectroscopic imaging by using a high-sensitivity terahertz camera. Scientific Reports, 2017, 7, 42540.	1.6	40
43	3D printed 1.1 THz waveguides. Electronics Letters, 2017, 53, 471-473.	0.5	50
44	The 2017 terahertz science and technology roadmap. Journal Physics D: Applied Physics, 2017, 50, 043001.	1.3	1,160
45	Backward Terahertz Radiation from a Two-Color Femtosecond Laser Filament. JETP Letters, 2017, 106, 706-708.	0.4	13
46	Single laser to multiple optical fiber device for optogenetics-based epidural spinal cord stimulation. , 2017, , .		2
47	Thick THz metamaterials fabricated by 3D printer for THz high-pass filter application. , 2017, , .		5
48	Linking energy density with Morphology in laser grooving of sapphire. , 2017, , .		0
49	3D terahertz beam profiling from two color laser induced plasma with different focusing. EPJ Web of Conferences, 2017, 149, 05011.	0.1	1
50	Fabrication of low loss waveguide using fundamental light of Yb-based femtosecond laser (Conference Presentation). , 2017, , .		0
51	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 Technology, 2016, 6, 175-182.	2.0	42
52	Chiral Switchable THz Metamaterial with MEMS Reconfigurable Spirals. , 2016, , .		0
53	Wavelength Dependence of the Laser-Induced Damage Threshold of $\hat{\pm}$ -Al ₂ O ₃ . , 2016, , .		0
54	Polarization control of quantum dot emission by chiral photonic crystal slabs. Optics Letters, 2015, 40, 1528.	1.7	28

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55	Enantiomeric switching of chiral metamaterial for terahertz polarization modulation employing vertically deformable MEMS spirals. Nature Communications, 2015, 6, 8422.	5.8	224
56	Photon-drag-induced terahertz emission from graphene. Physical Review B, 2014, 90, .	1.1	59
57	Self-assembly and plasmon-enhanced ultrafast magnetization of Ag@Co hybrid nanoparticles. Optical Materials Express, 2014, 4, 1564.	1.6	7
58	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
59	Polarization-Controlled Circular Second-Harmonic Generation from Metal Hole Arrays with Threefold Rotational Symmetry. Physical Review Letters, 2014, 112, 135502.	2.9	107
60	Tunable metamaterials by controlling sub-micron gap for the THz range. , 2014, , .		2
61	All-photoinduced terahertz optical activity. Optics Letters, 2014, 39, 3274.	1.7	41
62	Generation of broadband terahertz vortex beams. Optics Letters, 2014, 39, 3714.	1.7	70
63	Emission of quantum dots from waveguides with chiral spatially-modulated upper part. , 2014, , .		0
64	Review: Controlling circularly-polarized emission and second-harmonic generation with artificial nanostructures. , 2014, , .		0
65	Real-time broadband spectroscopic terahertz imaging with diffraction grating and high-sensitivity terahertz camera. , 2014, , .		1
66	Terahertz polarization pulse shaping with arbitrary field control. Nature Photonics, 2013, 7, 724-731.	15.6	120
67	Spiral metamaterial for active tuning of optical activity. Applied Physics Letters, 2013, 102, .	1.5	61
68	Development and evaluation of high-sensitivity terahertz camera. , 2013, , .		1
69	Spiral metamaterial for tunable circular dichroism. , 2013, , .		1
70	Efficient coupling of propagating broadband terahertz radial beams to metal wires. Optics Express, 2013, 21, 10642.	1.7	33
71	The terahertz polarization pulse shaping. , 2013, , . Electronic structure of the hole-doped delafossite oxides CuCrMgO_2		1
72	Electronic structure of the hole-doped delafossite oxides CuCrMgO_2	1.1	41

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73	Efficient coupling of broadband terahertz radial beams to metal wires. , 2013, , .		0
74	Generation of broadband terahertz Laguerre-Gaussian beam. , 2013, , .		1
75	Dynamics of photo-induced terahertz optical activity in metal chiral gratings. Optics Letters, 2012, 37, 3510.	1.7	13
76	Surface-plasmon enhanced optical activity in two-dimensional metal chiral networks. Optics Letters, 2012, 37, 4446.	1.7	8
77	Terahertz vector beam generation using segmented nonlinear optical crystals with threefold rotational symmetry. Optics Express, 2012, 20, 21896.	1.7	65
78	Terahertz optical activity by photo-carriers with chiral pattern. , 2012, , .		0
79	Terahertz vector beam generation using segmented nonlinear optical crystals with three-fold rotational symmetry. , 2012, , .		0
80	Circularly Polarized Light Emission from Semiconductor Planar Chiral Nanostructures. Physical Review Letters, 2011, 106, 057402.	2.9	147
81	Control of magnetic dipole terahertz radiation by cavity-based phase modulation. Optics Express, 2011, 19, 22550.	1.7	21
82	The vectorial control of magnetization by light. Nature Communications, 2011, 2, 362.	5.8	130
83	All-optical coherent manipulation of magnetization vector in an antiferromagnetic NiO crystal. , 2011, , .		0
84	Technique for checking design rules for three-dimensional CAD data. , 2010, , .		4
85	Circularly-Polarized Light Emission from Semiconductor Planar Chiral Photonic Crystals. , 2010, , .		0
86	Giant optical activity of planar chiral nanostructures and circularly-polarized light emission. , 2009, , .		0
87	Optical activity in metal and dielectric planar chiral gratings. Proceedings of SPIE, 2009, , .	0.8	0
88	Light-induced terahertz optical activity. Optics Letters, 2009, 34, 3000.	1.7	51
89	Mechanism of the large polarization rotation effect in the all-dielectric artificially chiral nanogratings. Optics Express, 2009, 17, 688.	1.7	16
90	Active Control of Terahertz Optical Activity by Photo-Excitation of Metal Chiral Gratings. , 2009, , .		0

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91	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
92	Observation of extraordinary optical activity in planar chiral photonic crystals. Optics Express, 2008, 16, 7189.	1.7	53
93	Enhancement of terahertz optical activity with photo-excitation in metal chiral gratings. , 2008, , .		0
94	Enhanced optical activity of a Terahertz wave with complimentary double-layered metal chiral gratings. , 2008, , .		0
95	Effect of surface plasmon polaritons on optical activity in chiral metal nanogratings. , 2007, , .		0
96	Effect of surface plasmon resonance on the optical activity of chiral metal nanogratings. Optics Express, 2007, 15, 9575.	1.7	62
97	Terahertz wave polarization rotation with double layered metal grating of complimentary chiral patterns. Optics Express, 2007, 15, 11117.	1.7	118
98	CHIRALITY-INDUCED POLARITON COUPLING IN METAL NANOGRAINGS. , 2007, , .		0
99	Giant optical activity in quasi-2D planar nanostructures. , 2006, 6110, 83.		0
100	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
101	Optical properties of strain-balanced SiGe planar microcavities with Ge dots on Si substrates. Applied Physics Letters, 2002, 81, 817-819.	1.5	22
102	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
103	A self-organizing system with cell-specialization. , 0, , .		2
104	Optimal connection among dynamical modular systems. , 0, , .		0
105	Analysis of emergence by intelligent data carrier system for collective robots based on stochastic models. , 0, , .		2