

Shinichi Watanabe

List of Publications by Year in descending order

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69
papers

1,021
citations

394421

19
h-index

454955

30
g-index

70
all docs

70
docs citations

70
times ranked

800
citing authors

#	ARTICLE	IF	CITATIONS
1	High uniformity of site-controlled pyramidal quantum dots grown on prepatterned substrates. Applied Physics Letters, 2004, 84, 1943-1945.	3.3	79
2	Intense terahertz pulse induced exciton generation in carbon nanotubes. Optics Express, 2011, 19, 1528.	3.4	73
3	Lasing from a single-quantum wire. Applied Physics Letters, 2002, 81, 4937-4939.	3.3	58
4	Mechanisms of Quantum Dot Energy Engineering by Metalorganic Vapor Phase Epitaxy on Patterned Nonplanar Substrates. Nano Letters, 2007, 7, 1282-1285.	9.1	51
5	Dense uniform arrays of site-controlled quantum dots grown in inverted pyramids. Applied Physics Letters, 2004, 84, 2907-2909.	3.3	50
6	Precise real-time polarization measurement of terahertz electromagnetic waves by a spinning electro-optic sensor. Review of Scientific Instruments, 2012, 83, 023104.	1.3	50
7	Site- and energy-controlled pyramidal quantum dot heterostructures. Physica E: Low-Dimensional Systems and Nanostructures, 2004, 25, 288-297.	2.7	40
8	Terahertz Polarization Imaging and Its Applications. Photonics, 2018, 5, 58.	2.0	35
9	Stimulated emission in ridge quantum wire laser structures measured with optical pumping and microscopic imaging methods. Applied Physics Letters, 1998, 73, 511-513.	3.3	33
10	Anisotropic optical response of optically opaque elastomers with conductive fillers as revealed by terahertz polarization spectroscopy. Scientific Reports, 2016, 6, 39079.	3.3	32
11	Narrow (~ 4 meV) inhomogeneous broadening and its correlation with confinement potential of pyramidal quantum dot arrays. Applied Physics Letters, 2007, 91, 081106.	3.3	29
12	High-quality $\text{In}_x\text{Ga}_{1-x}\text{As}/\text{Al}_0.30\text{Ga}_{0.70}\text{As}$ quantum dots grown in inverted pyramids. Physica Status Solidi (B): Basic Research, 2003, 238, 233-236.	1.5	27
13	Intense Terahertz Pulse-Induced Nonlinear Responses in Carbon Nanotubes. Journal of Infrared, Millimeter, and Terahertz Waves, 2012, 33, 861-869.	2.2	26
14	Evaluation of Crystallinity and Hydrogen Bond Formation in Stereocomplex Poly(lactic acid) Films by Terahertz Time-Domain Spectroscopy. Macromolecules, 2020, 53, 7171-7177.	4.8	24
15	Site-controlled quantum dots grown in inverted pyramids for photonic crystal applications. Physica E: Low-Dimensional Systems and Nanostructures, 2004, 23, 476-481.	2.7	23
16	T-ray topography by time-domain polarimetry. Optics Letters, 2012, 37, 2706.	3.3	23
17	High-speed terahertz time-domain polarimeter based on an electro-optic modulation technique. Applied Physics Express, 2014, 7, 092401.	2.4	23
18	Room temperature terahertz electro-optic modulation by excitons in carbon nanotubes. Applied Physics Letters, 2010, 97, 041111.	3.3	21

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19	Controlled Terahertz Birefringence in Stretched Poly(lactic acid) Films Investigated by Terahertz Time-Domain Spectroscopy and Wide-Angle X-ray Scattering. <i>Journal of Physical Chemistry B</i> , 2017, 121, 6951-6957.	2.6	20
20	Terahertz time-domain polarimetry (THz-TDP) based on the spinning E-O sampling technique: determination of precision and calibration. <i>Optics Express</i> , 2020, 28, 13482.	3.4	19
21	Internal triaxial strain imaging of visibly opaque black rubbers with terahertz polarization spectroscopy. <i>APL Photonics</i> , 2017, 2, .	5.7	17
22	Internal Status of Visibly Opaque Black Rubbers Investigated by Terahertz Polarization Spectroscopy: Fundamentals and Applications. <i>Polymers</i> , 2019, 11, 9.	4.5	17
23	Polarization-sensitive dual-comb spectroscopy. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2017, 34, 154.	2.1	15
24	Polarization-sensitive electro-optic detection of terahertz wave using three different types of crystal symmetry: Toward broadband polarization spectroscopy. <i>Applied Physics Letters</i> , 2016, 108, .	3.3	14
25	Selective molecular beam epitaxy (MBE) growth of GaAs/AlAs ridge structures containing 10nm scale wires and side quantum wells (QWs) and their stimulated emission characteristics. <i>Journal of Crystal Growth</i> , 1999, 201-202, 810-813.	1.5	13
26	Anisotropic percolation conduction in elastomer-carbon black composites investigated by polarization-sensitive terahertz time-domain spectroscopy. <i>Applied Physics Letters</i> , 2017, 111, 221902.	3.3	13
27	Inspection of internal filler alignment in visibly opaque carbon-black rubber composites by terahertz polarization spectroscopy in reflection mode. <i>Polymer Testing</i> , 2018, 72, 196-201.	4.8	13
28	Observation of ultrafast photoinduced closing and recovery of the spin-density-wave gap in (TMTSF) ₂ PF ₆ . <i>Physical Review B</i> , 2009, 80, .	3.2	12
29	A Real-Time Terahertz Time-Domain Polarization Analyzer with 80-MHz Repetition-Rate Femtosecond Laser Pulses. <i>Sensors</i> , 2013, 13, 3299-3312.	3.8	12
30	Spatial polarization variation in terahertz electromagnetic wave focused by off-axis parabolic mirror. <i>Applied Physics Express</i> , 2016, 9, 052206.	2.4	12
31	Patterning of confined-state energies in site-controlled semiconductor quantum dots. <i>Applied Physics Letters</i> , 2005, 86, 243105.	3.3	11
32	Intrinsic formation of electromagnetic divergence and rotation by parabolic focusing. <i>Physical Review A</i> , 2015, 92, .	2.5	11
33	Imaging of emission patterns in a T-shaped quantum wire laser. <i>Applied Physics Letters</i> , 2003, 83, 4089-4091.	3.3	10
34	Robustness of electric field vector sensing of electromagnetic waves by analyzing crystal angle dependence of the electro-optic effect. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2013, 30, 2940.	2.1	10
35	Ultrafast control of coherent spin precession in ferromagnetic thin films via thermal spin excitation processes induced by two-pulse laser excitation. <i>Physical Review B</i> , 2018, 97, .	3.2	10
36	Microscopy of electronic states contributing to lasing in ridge quantum-wire laser structure. <i>Applied Physics Letters</i> , 1999, 75, 2190-2192.	3.3	8

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37	Spin-density-wave gap in (TMTSF) ₂ PF ₆ probed by reflection-type terahertz time-domain spectroscopy. <i>Physica Status Solidi (B): Basic Research</i> , 2008, 245, 2688-2691.	1.5	8
38	Real-Time Monitoring of Structural Changes in Poly(lactic acid) during Thermal Treatment by High-Speed Terahertz Time-Domain Spectroscopy for Nondestructive Inspection. <i>ACS Applied Polymer Materials</i> , 2019, 1, 3008-3016.	4.4	8
39	Polarization Dependence of the Optical Interband Transition Defined by the Spatial Variation of the Valence-Orbital Bloch Functions in Quantum Wires. <i>Japanese Journal of Applied Physics</i> , 2002, 41, 5924-5936.	1.5	7
40	Compact terahertz time domain spectroscopy system with diffraction-limited spatial resolution. <i>Review of Scientific Instruments</i> , 2007, 78, 103906.	1.3	7
41	Video-rate terahertz electric-field vector imaging. <i>Applied Physics Letters</i> , 2014, 105, 151103.	3.3	7
42	Polarization detection of terahertz radiation via the electro-optic effect using zinc blende crystal symmetry. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2014, 31, 3170.	2.1	7
43	Retrieving the undistorted terahertz time-domain electric-field vector from the electro-optic effect. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2017, 34, 1946.	2.1	6
44	Polarization-sensitive dual-comb spectroscopy with an electro-optic modulator for determination of anisotropic optical responses of materials. <i>Optics Express</i> , 2019, 27, 35141.	3.4	6
45	Transformation of GaAs (001)â“(111)B facet structure by surface diffusion during molecular beam epitaxy on patterned substrates. <i>Journal of Crystal Growth</i> , 2001, 227-228, 62-66.	1.5	5
46	Growth and optical characterization of dense arrays of site-controlled quantum dots grown in inverted pyramids. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2004, 21, 193-198.	2.7	4
47	Interferogram-based determination of the absolute mode numbers of optical frequency combs in dual-comb spectroscopy. <i>Optics Express</i> , 2021, 29, 22214.	3.4	4
48	Intense terahertz pulse induced exciton generation in carbon nanotubes: erratum. <i>Optics Express</i> , 2011, 19, 15388.	3.4	3
49	Detailed study of transient anomalous electric field vector focused by parabolic mirror. <i>Journal of Optics (United Kingdom)</i> , 2017, 19, 035603.	2.2	3
50	Spatio-temporal imaging of terahertz electric-field vectors: observation of polarization-dependent knife-edge diffraction. <i>Applied Physics Express</i> , 2019, 12, 052010.	2.4	2
51	Ultrafast coherent control of higher-order spin waves in a NiFe thin film by double-pulse excitation. <i>Applied Physics Letters</i> , 2020, 117, .	3.3	2
52	Vertically polarized lasing and photoluminescence in a ridge quantum-wire laser. <i>Physical Review B</i> , 2003, 68, .	3.2	1
53	Ultrafast photo-induced insulator-to-metal transition in the spin density wave system of (TMTSF) ₂ PF ₆ . <i>Physica B: Condensed Matter</i> , 2010, 405, S360-S362.	2.7	1
54	Magneto-optic Kerr effect CCD imaging with polarization modulation technique. <i>AIP Advances</i> , 2017, 7, 056802.	1.3	1

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55	Optical Response Change of Black Rubbers under Cyclic Deformation Investigated by Terahertz Polarization Spectroscopy. , 2018, , .		1
56	Polarization-Sensitive Electro-Optic Sampling of Elliptically-Polarized Terahertz Pulses: Theoretical Description and Experimental Demonstration. Particles, 2019, 2, 70-89.	1.7	1
57	Ultra-precise determination of thicknesses and refractive indices of optically thick dispersive materials by dual-comb spectroscopy. Optics Express, 2022, 30, 2734.	3.4	1
58	Strain-induced irreversible change of the conductive network in a rubber/carbon-black composite revealed by polarization-resolved terahertz dielectric spectroscopy. Applied Physics Letters, 2022, 121, .	3.3	1
59	Very compact THz-TDS imaging system with diffraction limited spatial resolution. , 2007, , .		0
60	Intense terahertz field-induced electroabsorption in carbon nanotubes. , 2010, , .		0
61	Terahertz profilometer by time-domain polarimetry. , 2012, , .		0
62	Terahertz electric-field vector camera. , 2013, , .		0
63	Time-domain picture of the terahertz vector waveform measured by the electro-optic sampling method using the crystal symmetry. , 2014, , .		0
64	Birefringent properties of poly-lactic acid at terahertz range. , 2016, , .		0
65	Development of Polarization-Sensitive Dual-Comb Spectroscopy for Anisotropic Materials. , 2019, , .		0
66	Ultra-Precise Complex Refractive Index Measurement Using Dual-Comb Spectroscopy. , 2021, , .		0
67	Electric-Field Vector Imaging of Terahertz Surface Waves on an Indium Tin Oxide Thin Film. , 2018, , .		0
68	Terahertz Sensing of Anisotropy in Polymeric Materials. The Review of Laser Engineering, 2019, 47, 21.	0.0	0
69	Coherent Control of Higher-Order Spin Precession Modes in Ferromagnetic Permalloy Thin Films by Double Pulse Excitation. , 2020, , .		0