

Hideki Hirori

List of Publications by Year in descending order

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76
papers

2,444
citations

236925
25
h-index

197818
49
g-index

78
all docs

78
docs citations

78
times ranked

2541
citing authors

#	ARTICLE	IF	CITATIONS
1	Single-cycle terahertz pulses with amplitudes exceeding 1 MV/cm generated by optical rectification in LiNbO ₃ . <i>Applied Physics Letters</i> , 2011, 98, .	3.3	711
2	Extraordinary carrier multiplication gated by a picosecond electric field pulse. <i>Nature Communications</i> , 2011, 2, 594.	12.8	182
3	Attenuated Total Reflection Spectroscopy in Time Domain Using Terahertz Coherent Pulses. <i>Japanese Journal of Applied Physics</i> , 2004, 43, L1287-L1289.	1.5	159
4	Real-time terahertz near-field microscope. <i>Optics Express</i> , 2011, 19, 8277.	3.4	126
5	THz Nonlinear Spectroscopy of Solids. <i>IEEE Transactions on Terahertz Science and Technology</i> , 2011, 1, 301-312.	3.1	103
6	Excitonic interactions with intense terahertz pulses in ZnSe/ZnMgSSe multiple quantum wells. <i>Physical Review B</i> , 2010, 81, .	3.2	74
7	Nonlinear magnetization dynamics of antiferromagnetic spin resonance induced by intense terahertz magnetic field. <i>New Journal of Physics</i> , 2016, 18, 013045.	2.9	63
8	Exciton Localization of Single-Walled Carbon Nanotubes Revealed by Femtosecond Excitation Correlation Spectroscopy. <i>Physical Review Letters</i> , 2006, 97, 257401.	7.8	57
9	Subcycle Transient Scanning Tunneling Spectroscopy with Visualization of Enhanced Terahertz Near Field. <i>ACS Photonics</i> , 2019, 6, 1356-1364.	6.6	54
10	Radiative lifetimes and coherence lengths of one-dimensional excitons in single-walled carbon nanotubes. <i>Physical Review B</i> , 2009, 80, .	3.2	51
11	High-order harmonic generation from hybrid organic-inorganic perovskite thin films. <i>APL Materials</i> , 2019, 7, .	5.1	49
12	Terahertz Scanning Tunneling Microscopy for Visualizing Ultrafast Electron Motion in Nanoscale Potential Variations. <i>ACS Photonics</i> , 2021, 8, 315-323.	6.6	46
13	Antiferromagnetic resonance excitation by terahertz magnetic field resonantly enhanced with split ring resonator. <i>Applied Physics Letters</i> , 2014, 105, .	3.3	44
14	Near-field THz imaging of free induction decay from a tyrosine crystal. <i>Optics Express</i> , 2010, 18, 18419.	3.4	41
15	Destructive interference effect on surface plasmon resonance in terahertz attenuated total reflection. <i>Optics Express</i> , 2005, 13, 10801.	3.4	40
16	Excitonic enhancement of optical nonlinearities in perovskite $\text{CH}_{0.2}\text{PbI}_3$ single crystals. <i>Physical Review Materials</i> , 2019, 3, .	3.3	37
17	Dynamical Franz-Keldysh effect in GaAs/AlGaAs multiple quantum wells induced by single-cycle terahertz pulses. <i>Applied Physics Letters</i> , 2010, 97, .	3.3	35
18	Impact ionization dynamics in silicon by MV/cm THz fields. <i>New Journal of Physics</i> , 2017, 19, 123018.	2.9	35

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19	Enhancing the Hot-Phonon Bottleneck Effect in a Metal Halide Perovskite by Terahertz Phonon Excitation. <i>Physical Review Letters</i> , 2021, 126, 077401.	7.8	34
20	High-order harmonic generation in graphene: Nonlinear coupling of intraband and interband transitions. <i>Physical Review B</i> , 2021, 103, .	3.2	31
21	Subcycle Optical Response Caused by a Terahertz Dressed State with Phase-Locked Wave Functions. <i>Physical Review Letters</i> , 2016, 117, 277402.	7.8	29
22	Effect of A-Site Cation on Photoluminescence Spectra of Single Lead Bromide Perovskite Nanocrystals. <i>Nano Letters</i> , 2020, 20, 4022-4028.	9.1	29
23	Role of virtual band population for high harmonic generation in solids. <i>Physical Review B</i> , 2020, 102, .	3.2	28
24	Nonlinear Optical Phenomena Induced by Intense Single-Cycle Terahertz Pulses. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2013, 19, 8401110-8401110.	2.9	26
25	Exciton energy transfer between the inner and outer tubes in double-walled carbon nanotubes. <i>Physical Review B</i> , 2008, 78, .	3.2	25
26	Electron dynamics in chromium probed with 20-fs optical pulses. <i>Physical Review B</i> , 2003, 68, .	3.2	24
27	Dynamical Nonlinear Interactions of Solids with Strong Terahertz Pulses. <i>Journal of the Physical Society of Japan</i> , 2016, 85, 082001.	1.6	24
28	Electric field ionization of gallium acceptors in germanium induced by single-cycle terahertz pulses. <i>Physical Review B</i> , 2013, 87, .	3.2	22
29	Ultrafast Control of the Polarity of BiCoO_3 by Orbital Excitation as Investigated by Femtosecond Spectroscopy. <i>Physical Review Applied</i> , 2017, 7, .	3.2	20
30	Modifying angular and polarization selection rules of high-order harmonics by controlling electron trajectories in k-space. <i>Nature Communications</i> , 2020, 11, 3069.	12.8	20
31	Terahertz pulse-altered gene networks in human induced pluripotent stem cells. <i>Optics Letters</i> , 2020, 45, 6078.	3.3	20
32	Temporal decoupling of spin and crystallographic phase transitions in $\text{Fe}_{3-x}\text{Mn}_x\text{O}_4$ by Orbital Excitation as Investigated by Femtosecond Spectroscopy. <i>Physical Review Applied</i> , 2017, 7, .	3.2	17
33	Zener Tunneling Breakdown in Phase-Change Materials Revealed by Intense Terahertz Pulses. <i>Physical Review Letters</i> , 2018, 121, 165702.	7.8	17
34	Strong spin-orbit coupling inducing Autler-Townes effect in lead halide perovskite nanocrystals. <i>Nature Communications</i> , 2021, 12, 3026.	12.8	17
35	Size-controlled quantum dots reveal the impact of intraband transitions on high-order harmonic generation in solids. <i>Nature Physics</i> , 2022, 18, 874-878.	16.7	17
36	Terahertz-Induced Optical Emission of Photoexcited Undoped GaAs Quantum Wells. <i>Physical Review Letters</i> , 2013, 111, 067401.	7.8	16

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37	Time-resolved observation of coherent excitonic nonlinear response with a table-top narrowband THz pulse wave. <i>Applied Physics Letters</i> , 2015, 107, 221106.	3.3	15
38	Impact of spin-orbit splitting on two-photon absorption spectra in a halide perovskite single crystal. <i>Physical Review B</i> , 2021, 103, .	3.2	14
39	Biexciton state causes photoluminescence fluctuations in CdSe/ZnS core/shell quantum dots at high photoexcitation densities. <i>Physical Review B</i> , 2013, 88, .	3.2	13
40	Ultrafast Control of Ferroelectricity with Dynamical Repositioning of Protons in a Supramolecular Cocrystal Studied by Femtosecond Nonlinear Spectroscopy. <i>Journal of the Physical Society of Japan</i> , 2019, 88, 013705.	1.6	12
41	On the progress of ultrafast time-resolved THz scanning tunneling microscopy. <i>APL Materials</i> , 2021, 9, .	5.1	12
42	Interference effects in high-order harmonics from colloidal perovskite nanocrystals excited by an elliptically polarized laser. <i>Physical Review Materials</i> , 2021, 5, .	2.4	11
43	Ultrastrong coupling between THz phonons and photons caused by an enhanced vacuum electric field. <i>Physical Review Research</i> , 2021, 3, .	3.6	9
44	Generation of wavelength-tunable few-cycle pulses in the mid-infrared at repetition rates up to 10‰ kHz. <i>Optics Letters</i> , 2021, 46, 5280.	3.3	9
45	Terahertz pulse-altered gene networks in human induced pluripotent stem cells. <i>Optics Letters</i> , 2020, 45, 6078-6081.	3.3	9
46	Coherent detection of THz-induced sideband emission from excitons in the nonperturbative regime. <i>Physical Review B</i> , 2018, 97, .	3.2	3
47	High sensitive detection of optical constants with phase shift in Terahertz time-domain reflection spectroscopy., 2005, ,.	2	
48	Novel Spin-on Carbon Hard Mask with Hardening by Ion Implantation. <i>Journal of Photopolymer Science and Technology = [Fotoporima Konwakai Shi]</i> , 2007, 20, 365-372.	0.3	2
49	Enhancement of THz field in a gap of dipole antenna., 2010, ,.	2	
50	Accurate determination of complex dielectric constants by terahertz time domain attenuated total reflection spectroscopy., 0, ,.	1	
51	Single-cycle terahertz pulses with amplitudes exceeding 1 MV/cm generated by optical rectification in LiNbO ₃ and applications to nonlinear optics. <i>Proceedings of SPIE</i> , 2012, ,.	0.8	1
52	Ultrafast reflectivity change of vanadium dioxide induced by THz field enhanced by a metallic structure. <i>Japanese Journal of Applied Physics</i> , 2019, 58, 083002.	1.5	1
53	Accurate measurement of phase shift on the surface-plasmon resonance., 2004, ,.	1	
54	Phase jumps on surface plasmon resonance., 2005, ,.	0	

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55	Interference effect on the surface plasmon excitation. , 0, , .		0
56	Dynamics of Biomolecules in Water by Terahertz Time-domain Attenuated Total Reflection Spectroscopy. , 0, , .		0
57	Dynamical Franz-Keldysh effect in GaAs induced by monocyte terahertz pulse. , 2010, , .		0
58	Extraordinary carrier multiplication in GaAs MQWs induced by intense terahertz pulse. , 2011, , .		0
59	Non-linear terahertz spectroscopy of accepters in p-Ge. , 2011, , .		0
60	Near-field THz imaging of a split ring resonator matrix. , 2011, , .		0
61	Photoluminescence flash induced by intense single-cycle terahertz pulses in undoped GaAs quantum wells. , 2013, , .		0
62	High-power THz pulse generation and nonlinear THz spectroscopy. , 2013, , .		0
63	Time-resolved observation of excitonic dynamics under coherent terahertz excitation in GaAs quantum wells. , 2015, , .		0
64	Terahertz Nonlinear Magnetic Response in Antiferromagnets. , 2015, , .		0
65	THz-induced ultrafast modulation of NIR refractive index of silicon. , 2016, , .		0
66	Phase-sensitive observation of THz-dressed exciton. , 2016, , .		0
67	High impact ionization rate in silicon by sub-picosecond THz electric field pulses (Conference) Tj ETQq1 1 0.784314 rgBT /Overlock 10 T		0
68	Dynamical control of optical properties by using a terahertz dressed state. , 2017, , .		0
69	Response of human induced pluripotent stem cells to terahertz radiation. , 2021, , .		0
70	Nonperturbative Excitonic Interaction with Intense THz Pulses in ZnSe/ZnMgSSe Multiple Quantum Wells. , 2010, , .		0
71	Highly Efficient Carrier Multiplication and Bright Exciton Luminescence under Intense Terahertz Pulse. , 2011, , .		0
72	Highly Efficient Carrier Multiplication and Bright Exciton Luminescence under Intense Terahertz Pulse. , 2011, , .		0

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73	High-Power Terahertz Pulse Generation and Nonlinear Terahertz Spectroscopy. The Review of Laser Engineering, 2012, 40, 480.	0.0	0
74	Ultra-intense Terahertz Pulse Generation and Application to Nonlinear THz Spectroscopy. , 2013, , .	0	
75	Resonant antiferromagnetic spin wave excitation by terahertz magnetic near-field with split ring resonator. , 2014, , .	0	
76	Sub-cycle Control of Optical Response by Using a Terahertz Excitonic Dressed State. , 2018, , .	0	