

David Hilton

List of Publications by Year in descending order

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54
papers

1,460
citations

516215

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377514

34
g-index

56
all docs

56
docs citations

56
times ranked

2409
citing authors

#	ARTICLE	IF	CITATIONS
1	Carbon Nanotube Terahertz Polarizer. Nano Letters, 2009, 9, 2610-2613.	4.5	240
2	Optical Orientation and Femtosecond Relaxation of Spin-Polarized Holes in GaAs. Physical Review Letters, 2002, 89, 146601.	2.9	217
3	Enhanced Photosusceptibility near T_c for the Light-Induced Insulator-to-Metal Phase Transition in Vanadium Dioxide. Physical Review Letters, 2007, 99, 226401.	2.9	203
4	Ultrafast Phase Transition via Catastrophic Phonon Collapse Driven by Plasmonic Hot-Electron Injection. Nano Letters, 2014, 14, 1127-1133.	4.5	123
5	Terahertz emission via ultrashort-pulse excitation of magnetic metal films. Optics Letters, 2004, 29, 1805.	1.7	112
6	Optical Coherence in Atomic-Monolayer Transition-Metal Dichalcogenides Limited by Electron-Phonon Interactions. Physical Review Letters, 2016, 116, 127402.	2.9	105
7	Carrier dynamics in self-assembled ErAs nanoislands embedded in GaAs measured by optical-pump terahertz-probe spectroscopy. Applied Physics Letters, 2005, 86, 201107.	1.5	56
8	Terahertz time-domain magnetospectroscopy of a high-mobility two-dimensional electron gas. Optics Letters, 2007, 32, 1845.	1.7	54
9	Ultrafast conductivity dynamics in pentacene probed using terahertz spectroscopy. Applied Physics Letters, 2004, 84, 891-893.	1.5	51
10	On Photo-Induced Phenomena in Complex Materials: Probing Quasiparticle Dynamics using Infrared and Far-Infrared Pulses. Journal of the Physical Society of Japan, 2006, 75, 011006.	0.7	36
11	Direct measurement of cyclotron coherence times of high-mobility two-dimensional electron gases. Optics Express, 2010, 18, 12354.	1.7	36
12	Quantum control of a Landau-quantized two-dimensional electron gas in a GaAs quantum well using coherent terahertz pulses. Physical Review B, 2011, 84, .	1.1	35
13	Biexciton formation and exciton coherent coupling in layered GaSe. Journal of Chemical Physics, 2015, 142, 212422.	1.2	31
14	Biexcitons in monolayer transition metal dichalcogenides tuned by magnetic fields. Nature Communications, 2018, 9, 3720.	5.8	29
15	Femtosecond optical-pulse-induced absorption and refractive-index changes in GaAs in the midinfrared. Physical Review B, 1999, 60, 8890-8896.	1.1	25
16	Heterogeneous nucleation and growth dynamics in the light-induced phase transition in vanadium dioxide. Journal of Physics Condensed Matter, 2016, 28, 125603.	0.7	18
17	Ultrafast Spectroscopy of the Uranium(IV) and Thorium(IV) Bis(ketimide) Complexes (C ₅ Me ₅) ₂ An[η^5 -N α -C(Ph)(CH ₂ Ph)] ₂ (An = Th, U). Journal of Physical Chemistry A, 2008, 112, 7840-7847.	1.1	13
18	Growth of thin Fe(001) films for terahertz emission experiments. Applied Surface Science, 2007, 253, 6992-7003.	3.1	9

#	ARTICLE	IF	CITATIONS
19	Mid-IR volumetric Bragg grating based on LiF color center crystal. <i>Optical Materials Express</i> , 2012, 2, 1209.	1.6	9
20	Cyclotron decay time of a two-dimensional electron gas from 0.4 to 100 K. <i>Physical Review B</i> , 2016, 93, .	1.1	7
21	Strong Quantum Coherence between Fermi Liquid Mahan Excitons. <i>Physical Review Letters</i> , 2016, 116, 157401.	2.9	7
22	Generalized Elliott-Yafet spin-relaxation time for arbitrary spin mixing. <i>Physical Review B</i> , 2017, 96, .	1.1	6
23	Ultrafast pump-probe spectroscopy in gallium arsenide at 25ÅT. <i>Optics Letters</i> , 2014, 39, 5772.	1.7	5
24	Coulomb-interaction induced coupling of Landau levels in intrinsic and modulation-doped quantum wells. <i>Physical Review B</i> , 2017, 95, .	1.1	5
25	Equation of state and electrical resistivity of the heavy fermion superconductor CeCoIn5 to 51 GPa. <i>European Physical Journal B</i> , 2013, 86, 1.	0.6	4
26	Broadband ultrafast terahertz spectroscopy in the 25 T Split Florida-Helix. <i>Review of Scientific Instruments</i> , 2018, 89, 073901.	0.6	4
27	Exploring two-dimensional electron gases with two-dimensional Fourier transform spectroscopy. <i>Journal of Chemical Physics</i> , 2014, 141, 134505.	1.2	3
28	Bright and Dark Exciton Coherent Coupling and Hybridization Enabled by External Magnetic Fields. <i>Nano Letters</i> , 2022, 22, 1680-1687.	4.5	3
29	Cyclotron resonance spectroscopy in a high mobility two dimensional electron gas using characteristic matrix methods. <i>Optics Express</i> , 2012, 20, 29717.	1.7	2
30	Coherent two-dimensional Fourier transform spectroscopy using a 25 Tesla resistive magnet. <i>Review of Scientific Instruments</i> , 2019, 90, 063901.	0.6	2
31	Multidimensional spectroscopy of magneto-excitons at high magnetic elds. <i>Journal of Chemical Physics</i> , 2021, 155, 204201.	1.2	2
32	Time-Domain Terahertz Magneto-Spectroscopy of an Ultrahigh-Mobility Two-Dimensional Electron Gas. , 2010, , .		1
33	The role of electron-phonon interactions on the coherence lifetime of monolayer transition metal dichalcogenides. <i>Solid State Communications</i> , 2017, 266, 30-33.	0.9	1
34	The role of electron-phonon interactions on the coherence lifetime of monolayer transition metal dichalcogenides. <i>Journal of Physics: Conference Series</i> , 2017, 864, 012035.	0.3	1
35	Fe(001) thin films for x-ray diffraction and terahertz emission studies. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2006, 24, 1509-1513.	0.9	0
36	Time resolved conductivity dynamics in vanadium dioxide. , 2006, , .		0

#	ARTICLE	IF	CITATIONS
37	Terahertz time-domain spectroscopy of α -nitrogen ice. , 2011, , .		0
38	The THz magnetoconductivity tensor in a high mobility two-dimensional electron gas. , 2011, , .		0
39	Terahertz coherent control of a quantum Hall system: Kohn's theorem in the coherent regime. , 2011, , .		0
40	Mid-IR volumetric Bragg grating based on LiF color center crystals. , 2012, , .		0
41	Resolving sub-phonon wavelength super lattices using coherent acoustic phonon spectroscopy. , 2013, , .		0
42	Ultrafast Dynamics of the VO ₂ Insulator-to-Metal Transition Observed by Nondegenerate Pump-Probe Spectroscopy. EPJ Web of Conferences, 2013, 41, 03006.	0.1	0
43	Decoherence in a Landau Quantized Two Dimensional Electron Gas. EPJ Web of Conferences, 2013, 41, 04029.	0.1	0
44	Ultrafast Phase Transition in Vanadium Dioxide Driven by Hot-Electron Injection. EPJ Web of Conferences, 2013, 41, 03026.	0.1	0
45	Optical Orientation and Femtosecond Relaxation of Spin-Polarized Holes in GaAs. , 2002, , .		0
46	Terahertz emission spectroscopy of ultrafast demagnetization in iron. , 2005, , .		0
47	Ultrafast Dynamics of Nucleation and Growth of Metallic Domains in VO ₂ . , 2011, , .		0
48	Terahertz Coherent Control of Many-electron Qubits in a Quantum Hall System. , 2011, , .		0
49	Terahertz Coherent Control of Many-electron Qubits in a Quantum Hall System. , 2011, , .		0
50	Terahertz Coherent Control of a Landau-Quantized Two-Dimensional Electron Gas. , 2012, , .		0
51	Ultrafast Pump-probe Spectroscopy in Gallium Arsenide at 25 Tesla. , 2015, , .		0
52	Effects of Film-Substrate Interaction on Ultrafast Dynamics in the Photo-Induced Phase Transition in Vanadium Dioxide. , 2016, , .		0
53	Ultrafast Time-Domain Spectrometer in the 25 T Split Florida-Helix Magnet. , 2019, , .		0
54	Broadband terahertz spectroscopy at high magnetic field using the 25 Tesla Split Florida-Helix magnet. , 2019, , .		0