

David Hilton

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/8166770/publications.pdf>

Version: 2024-02-01

54
papers

1,460
citations

516215

16
h-index

377514

34
g-index

56
all docs

56
docs citations

56
times ranked

2409
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 1 | Bright and Dark Exciton Coherent Coupling and Hybridization Enabled by External Magnetic Fields. Nano Letters, 2022, 22, 1680-1687. | 4.5 | 3 |
| 2 | Multidimensional spectroscopy of magneto-excitons at high magnetic elds. Journal of Chemical Physics, 2021, 155, 204201. | 1.2 | 2 |
| 3 | Coherent two-dimensional Fourier transform spectroscopy using a 25 Tesla resistive magnet. Review of Scientific Instruments, 2019, 90, 063901. | 0.6 | 2 |
| 4 | Ultrafast Time-Domain Spectrometer in the 25 T Split Florida-Helix Magnet. , 2019, , . | | 0 |
| 5 | Broadband terahertz spectroscopy at high magnetic field using the 25 Tesla Split Florida-Helix magnet. , 2019, , . | | 0 |
| 6 | Biexcitons in monolayer transition metal dichalcogenides tuned by magnetic fields. Nature Communications, 2018, 9, 3720. | 5.8 | 29 |
| 7 | Broadband ultrafast terahertz spectroscopy in the 25 T Split Florida-Helix. Review of Scientific Instruments, 2018, 89, 073901. | 0.6 | 4 |
| 8 | Generalized Elliott-Yafet spin-relaxation time for arbitrary spin mixing. Physical Review B, 2017, 96, . | 1.1 | 6 |
| 9 | The role of electron-phonon interactions on the coherence lifetime of monolayer transition metal dichalcogenides. Solid State Communications, 2017, 266, 30-33. | 0.9 | 1 |
| 10 | The role of electron-phonon interactions on the coherence lifetime of monolayer transition metal dichalcogenides. Journal of Physics: Conference Series, 2017, 864, 012035. | 0.3 | 1 |
| 11 | Coulomb-interaction induced coupling of Landau levels in intrinsic and modulation-doped quantum wells. Physical Review B, 2017, 95, . | 1.1 | 5 |
| 12 | Cyclotron decay time of a two-dimensional electron gas from 0.4 to 100 K. Physical Review B, 2016, 93, . | 1.1 | 7 |
| 13 | Optical Coherence in Atomic-Monolayer Transition-Metal Dichalcogenides Limited by Electron-Phonon Interactions. Physical Review Letters, 2016, 116, 127402. | 2.9 | 105 |
| 14 | Strong Quantum Coherence between Fermi Liquid Mahan Excitons. Physical Review Letters, 2016, 116, 157401. | 2.9 | 7 |
| 15 | 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 |
| 16 | Effects of Film-Substrate Interaction on Ultrafast Dynamics in the Photo-Induced Phase Transition in Vanadium Dioxide. , 2016, , . | | 0 |
| 17 | Biexciton formation and exciton coherent coupling in layered GaSe. Journal of Chemical Physics, 2015, 142, 212422. | 1.2 | 31 |
| 18 | Ultrafast Pump-probe Spectroscopy in Gallium Arsenide at 25 Tesla. , 2015, , . | | 0 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 19 | Ultrafast pump-probe spectroscopy in gallium arsenide at 25 Å. Optics Letters, 2014, 39, 5772. | 1.7 | 5 |
| 20 | Ultrafast Phase Transition via Catastrophic Phonon Collapse Driven by Plasmonic Hot-Electron Injection. Nano Letters, 2014, 14, 1127-1133. | 4.5 | 123 |
| 21 | Exploring two-dimensional electron gases with two-dimensional Fourier transform spectroscopy. Journal of Chemical Physics, 2014, 141, 134505. | 1.2 | 3 |
| 22 | Equation of state and electrical resistivity of the heavy fermion superconductor CeCoIn5 to 51 GPa. European Physical Journal B, 2013, 86, 1. | 0.6 | 4 |
| 23 | Resolving sub-phonon wavelength super lattices using coherent acoustic phonon spectroscopy. , 2013, , . | | 0 |
| 24 | Ultrafast Dynamics of the VO2 Insulator-to-Metal Transition Observed by Nondegenerate Pump-Probe Spectroscopy. EPJ Web of Conferences, 2013, 41, 03006. | 0.1 | 0 |
| 25 | Decoherence in a Landau Quantized Two Dimensional Electron Gas. EPJ Web of Conferences, 2013, 41, 04029. | 0.1 | 0 |
| 26 | Ultrafast Phase Transition in Vanadium Dioxide Driven by Hot-Electron Injection. EPJ Web of Conferences, 2013, 41, 03026. | 0.1 | 0 |
| 27 | Cyclotron resonance spectroscopy in a high mobility two dimensional electron gas using characteristic matrix methods. Optics Express, 2012, 20, 29717. | 1.7 | 2 |
| 28 | Mid-IR volumetric Bragg grating based on LiF color center crystal. Optical Materials Express, 2012, 2, 1209. | 1.6 | 9 |
| 29 | Mid-IR volumetric Bragg grating based on LiF color center crystals. , 2012, , . | | 0 |
| 30 | Terahertz Coherent Control of a Landau-Quantized Two-Dimensional Electron Gas. , 2012, , . | | 0 |
| 31 | Terahertz time-domain spectroscopy of α -nitrogen ice. , 2011, , . | | 0 |
| 32 | The THz magnetoconductivity tensor in a high mobility two-dimensional electron gas. , 2011, , . | | 0 |
| 33 | Terahertz coherent control of a quantum Hall system: Kohn's theorem in the coherent regime. , 2011, , . | | 0 |
| 34 | 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 |
| 35 | Ultrafast Dynamics of Nucleation and Growth of Metallic Domains in VO2. , 2011, , . | | 0 |
| 36 | Terahertz Coherent Control of Many-electron Qubits in a Quantum Hall System. , 2011, , . | | 0 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 37 | Terahertz Coherent Control of Many-electron Qubits in a Quantum Hall System. , 2011, , . | | 0 |
| 38 | Time-Domain Terahertz Magneto-Spectroscopy of an Ultrahigh-Mobility Two-Dimensional Electron Gas. , 2010, , . | | 1 |
| 39 | Direct measurement of cyclotron coherence times of high-mobility two-dimensional electron gases. Optics Express, 2010, 18, 12354. | 1.7 | 36 |
| 40 | Carbon Nanotube Terahertz Polarizer. Nano Letters, 2009, 9, 2610-2613. | 4.5 | 240 |
| 41 | Ultrafast Spectroscopy of the Uranium(IV) and Thorium(IV) Bis(ketimide) Complexes (C5Me5)2An[\hat{a} "N \hat{a} •C(Ph)(CH2Ph)]2 (An = Th, U). Journal of Physical Chemistry A, 2008, 112, 7840-7847. | 1.1 | 13 |
| 42 | 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 |
| 43 | Terahertz time-domain magnetospectroscopy of a high-mobility two-dimensional electron gas. Optics Letters, 2007, 32, 1845. | 1.7 | 54 |
| 44 | Growth of thin Fe(001) films for terahertz emission experiments. Applied Surface Science, 2007, 253, 6992-7003. | 3.1 | 9 |
| 45 | Fe(001) thin films for x-ray diffraction and terahertz emission studies. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2006, 24, 1509-1513. | 0.9 | 0 |
| 46 | 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 |
| 47 | Time resolved conductivity dynamics in vanadium dioxide. , 2006, , . | | 0 |
| 48 | 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 |
| 49 | Terahertz emission spectroscopy of ultrafast demagnetization in iron. , 2005, , . | | 0 |
| 50 | Ultrafast conductivity dynamics in pentacene probed using terahertz spectroscopy. Applied Physics Letters, 2004, 84, 891-893. | 1.5 | 51 |
| 51 | Terahertz emission via ultrashort-pulse excitation of magnetic metal films. Optics Letters, 2004, 29, 1805. | 1.7 | 112 |
| 52 | Optical Orientation and Femtosecond Relaxation of Spin-Polarized Holes in GaAs. Physical Review Letters, 2002, 89, 146601. | 2.9 | 217 |
| 53 | Optical Orientation and Femtosecond Relaxation of Spin-Polarized Holes in GaAs. , 2002, , . | | 0 |
| 54 | Femtosecond optical-pulse-induced absorption and refractive-index changes in GaAs in the midinfrared. Physical Review B, 1999, 60, 8890-8896. | 1.1 | 25 |