Claudia Ruppert

List of Publications by Year
in descending order

33 papers	1,611 citations	759233 12 h-index	454955 30 g-index
34 all docs	34 docs citations	34 times ranked	3112 citing authors

#	Article	IF	Citations
1	Anisotropic expansion of drifting spin helices in GaAs quantum wells. Physical Review B, 2021, 103, .	3.2	6
2	Nondegenerate two-photon absorption in ZnSe: Experiment and theory. Physical Review B, 2021, 104, .	3.2	3
3	Near-infrared non-degenerate two-photon absorption coefficients of bulk GaAs and Si. Optics Express, 2021, 29, 34522.	3.4	5
4	Influence of Plasmon Resonances and Symmetry Effects on Second Harmonic Generation in WS₂â€“Plasmonic Hybrid Metasurfaces. ACS Nano, 2021, 15, 16719-16728.	14.6	11
5	Dynamical formation and active control of persistent spin helices in III-V and II-VI quantum wells. Semiconductor Science and Technology, 2019, 34, 093002.	2.0	9
6	Intensity-dependent degenerate and non-degenerate nonlinear optical absorption of direct-gap semiconductors. , 2019, , .		1
7	Field control of anisotropic spin transport and spin helix dynamics in a modulation-doped GaAs quantum well. Physical Review B, 2018, 97, .	3.2	17
8	Coupled exciton-trion spin dynamics in a MoSe ₂ monolayer. 2D Materials, 2018, 5, 045024.	4.4	5
9	Stimulated two-photon emission in bulk CdSe. Optics Letters, 2018, 43, 5066.	3.3	4
10	The Role of Electronic and Phononic Excitation in the Optical Response of Monolayer WS₂ after Ultrafast Excitation. Nano Letters, 2017, 17, 644-651.	9.1	143
11	Thermochromic modulation of surface plasmon polaritons in vanadium dioxide nanocomposites. Optics Express, 2016, 24, 17321.	3.4	19
12	Quantum interference control of electrical currents in GaAs microstructures: physics and spectroscopic applications. Applied Physics B: Lasers and Optics, 2016, 122, 1.	2.2	1
13	Ultrafast dynamical response of the lower exciton-polariton branch in CdZnTe. Physical Review B, 2016, 93, .	3.2	1
14	Population inversion and giant bandgap renormalization in atomically thin WS2 layers. Nature Photonics, 2015, 9, 466-470.	31.4	366
15	Phase-retrieval of femtosecond pulses utilizing Ï‰/2Ï‰ quantum interference control of electrical currents. Optics Letters, 2014, 39, 3654.	3.3	2
16	Optical Properties and Band Gap of Single- and Few-Layer MoTe₂ Crystals. Nano Letters, 2014, 14, 6231-6236.	9.1	757
17	Radio Frequency Electromechanical Control over a Surface Plasmon Polariton Coupler. ACS Photonics, 2014, 1, 91-95.	6.6	12
18	Femtosecond quantum interference control of electrical currents in GaAs: Signatures beyond the perturbative<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msup><mml:mi>Ï‡</mml:mi><mml:mrow><mml:mo>(</mml:mo><mml:mn>3</mml:mn><mml:mo>)</mml:mo> Physical Review B, 2013, 88, .	3.2	11

#	Article	IF	Citations
19	Probing ultrafast carrier tunneling dynamics in individual quantum dots and molecules. Annalen Der Physik, 2013, 525, 49-58.	2.4	15
20	Ultrafast field-resolved semiconductor spectroscopy utilizing quantum interference control of currents. Optics Letters, 2012, 37, 3879.	3.3	3
21	Sub-diffraction optical coherent control of ultrafast electrical currents in antenna devices on GaAs. Applied Physics Letters, 2012, 101, 251119.	3.3	2
22	Probing ultrafast charge and spin dynamics in a quantum dot molecule. , 2012, , .		0
23	Electrical Control of Interdot Electron Tunneling in a Double InGaAs Quantum-Dot Nanostructure. Physical Review Letters, 2012, 108, 197402.	7.8	78
24	High-fidelity optical preparation and coherent Larmor precession of a single hole in an (In,Ga)As quantum dot molecule. Physical Review B, 2012, 85, .	3.2	36
25	Field-resolved characterization of femtosecond electromagnetic pulses with 400 THz bandwidth. Optics Letters, 2011, 36, 1791.	3.3	5
26	Shaking optical nanocavities. Nature Photonics, 2011, 5, 574-576.	31.4	1
27	Coherent control of electrical currents in semiconductor nanowires/â€tubes. Physica Status Solidi C: Current Topics in Solid State Physics, 2011, 8, 1224-1226.	0.8	1
28	Surface acoustic wave mediated coupling of free-space radiation into surface plasmon polaritons on plain metal films. Physical Review B, 2010, 82, .	3.2	27
29	Ultrafast few-fermion optoelectronics in a single self-assembled<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mtext>In</mml:mtext><mml:mtext>Ga</mml:mtext><mml:mtext>As</mml:mtext><mml:mo>/</mml:mo> dot. Physical Review B, 2010, 82, .	3.2	25
30	Quantum Interference Control of Femtosecond, Î¼A Current Bursts in Single GaAs Nanowires. Nano Letters, 2010, 10, 1799-1804.	9.1	17
31	Ultrafast Few-Fermion Optoelectronics of a Single Quantum Dot. , 2010, , .		0
32	Generation of 30 femtosecond, 900-970 nm pulses from a Ti:sapphire laser far off the gain peak. Optics Express, 2008, 16, 5572.	3.4	12
33	Nonlinear optical response of a single self-assembled InGaAs quantum dot: A femtojoule pump-probe experiment. Applied Physics Letters, 2006, 88, 203110.	3.3	16