Markus Betz

List of Publications by Year
in descending order

23	222	1163117	996975
papers	citations	8	15
		h-index	g-index

23	23	23	268
all docs	docs citations	times ranked	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	Spin-locked transport in a two-dimensional electron gas. Physical Review B, 2020, 101, .	3.2	5
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	Transport of a persistent spin helix drifting transverse to the spin texture. Physical Review B, 2019, 99, .	3.2	11
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	Persistent spin helix manipulation by optical doping of a CdTe quantum well. Physical Review B, 2018, 97, .	3.2	20
9	Coupled exciton-trion spin dynamics in a MoSe ₂ monolayer. 2D Materials, 2018, 5, 045024.	4.4	5
10	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
11	Enhanced spin-polarization lifetimes in a two-dimensional electron gas in a gate-controlled GaAs quantum well. Physical Review B, 2016, 94, .	3.2	14
12	Phase-retrieval of femtosecond pulses utilizing Ï‰/2Ï‰ quantum interference control of electrical currents. Optics Letters, 2014, 39, 3654.	3.3	2
13	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>Î‡</mml:mi><mml:mrow><mml:mo>(</mml:mo><mml:mn>3</mml:mn><mml:mo>)</mml:mo></mml:mrow></mml:msup></mml:math> Physical Review B, 2013, 88, .	3.2	11
14	Field-resolved characterization of femtosecond electromagnetic pulses with 400 THz bandwidth. Optics Letters, 2011, 36, 1791.	3.3	5
15	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
16	Quantum Interference Control of Femtosecond, Î¼A Current Bursts in Single GaAs Nanowires. Nano Letters, 2010, 10, 1799-1804.	9.1	17
17	All-optical coherently controlled terahertz ac charge currents from excitons in semiconductors. Physical Review B, 2009, 79, .	3.2	17
18	All-optical coherently controlled Terahertz AC charge currents from excitons in semiconductors. , 2009, , .		0

#	Article	IF	Citations
19	All-optical injection of ballistic electrical currents in unbiased silicon. Physica Status Solidi C: Current Topics in Solid State Physics, 2008, 5, 340-342.	0.8	1
20	THz Emission from transient electrical currents injected into semiconductors via optical quantum interference. , 2008, , .		0
21	Quantum Interference Control of Electrical Currents in Silicon. , 2007, , .		0
22	All-optical injection of ballistic electrical currents in unbiased silicon. Nature Physics, 2007, 3, 632-635.	16.7	72
23	Nonlinear optical microscopy of a single self-assembled InGaAs quantum dot. Physica Status Solidi C: Current Topics in Solid State Physics, 2006, 3, 4009-4012.	0.8	0