

Complete publication list of Arno Schneider

A. Schneider, "Enhancing the Amplitude of Terahertz Transients Using Lock-In Amplification and a Spinning Nonlinear Crystal", *IEEE Transactions on Terahertz Science and Technology* **4** (2014), accepted for publication

DOI: 10.1109/TTHZ.2014.2331145

A. Schneider, "Theory of terahertz pulse generation through optical rectification in a nonlinear optical material with a finite size", *Physical Review A* **82** (2010) 033825

DOI: 10.1103/PhysRevA.82.033825

A. Schneider, "Comment on 'Terahertz Radiation from a Nonlinear Slab Traversed by an Optical Pulse'", *Physical Review Letters* **104** (2010) 019501

DOI: 10.1103/PhysRevLett.104.019501

F.D.J. Brunner, A. Schneider, P. Gunter, "A terahertz time-domain spectrometer for simultaneous transmission and reflection measurements at normal incidence", *Optics Express* **17** (2009) 20684

DOI: 10.1364/OE.17.020684

A. Schneider, "Beam-size effects in electro-optic sampling of terahertz pulses", *Optics Letters* **34** (2009) 1054

DOI: 10.1364/OL.34.001054

F.D.J. Brunner, A. Schneider, P. Gunter, "Velocity-matched terahertz generation by optical rectification in an organic nonlinear optical crystal using a Ti:sapphire laser", *Applied Physics Letters* **94** (2009) 061119

DOI: 10.1063/1.3080214

A. Schneider, "Terahertz characterization of semiconductor alloy AlInN: negative imaginary conductivity and its meaning: comment", *Optics Letters* **35** (2010) 265

DOI: 10.1364/OL.35.000265

F.D.J. Brunner, "A hydrogen-bonded organic nonlinear optical crystal for high-efficiency terahertz generation and detection", *Optics Express* **16** (2008) 16496

DOI: 10.1364/OE.16.016496

M. Stillhart, A. Schneider, P. Gunter, "Optical properties of 4-N,N-dimethylamino-4'-N'-methylstilbazolium 2,4,6-trimethylbenzenesulfonate crystals at terahertz frequencies", *Journal of the Optical Society of America B* **25** (2008) 1914

DOI: 10.1364/JOSAB.25.001914

O.P. Kwon, S.J. Kwon, M. Jazbinsek, F.D.J. Brunner, J.I. Seo, C. Hunziker, A. Schneider, H. Yun, Y.S. Lee, P. Gunter, "Organic Phenolic Configurationally Locked Polyene Single Crystals for Electro-optic and Terahertz Wave Applications", *Advanced Functional Materials* **18** (2008) 3242

DOI: 10.1002/adfm.200800633

A. Schneider, P. Gunter, "Coherent detection of terahertz pulses based on two-photon absorption in a photodiode", *Applied Physics Letters* **90** (2007) 121125

DOI: 10.1063/1.2716070

- A. Schneider, F.D.J. Brunner, P. Gunter, "Determination of the refractive index over a wide wavelength range through time-delay measurements of femtosecond pulses", *Optics Communications* **275** (2007) 354
DOI: 10.1016/j.optcom.2007.04.003
- C. Herzog, S. Aravazhi, A. Guarino, A. Schneider, G. Poberaj, P. Gunter, "Epitaxial $K_{1-x}Na_xTa_{0.66}Nb_{0.34}O_3$ thin films for optical waveguiding applications", *Journal of the Optical Society of America B* **24** (2007) 829
DOI: 10.1364/JOSAB.24.000829
- Z. Yang, L. Mutter, M. Stillhart, B. Ruiz, S. Aravazhi, M. Jazbinsek, A. Schneider, V. Gramlich, P. Gunter, "Large-size bulk and thin-film stilbazolium-salt single crystals for nonlinear optics and THz generation", *Advanced Functional Materials* **17** (2007) 2018
DOI: 10.1002/adfm.200601117
- O.P. Kwon, S.J. Kwon, M. Stillhart, M. Jazbinsek, A. Schneider, V. Gramlich, P. Gunter, "New organic nonlinear optical verbenone-based triene crystal for terahertz applications", *Crystal Growth & Design* **7** (2007) 2517
DOI: 10.1021/cg070305q
- A. Schneider, M. Neis, M. Stillhart, B. Ruiz, R.U.A. Khan, P. Gunter, "Generation of terahertz pulses through optical rectification in organic DAST crystals: theory and experiment", *Journal of the Optical Society of America B* **23** (2006) 1822
DOI: 10.1364/JOSAB.23.001822
- A. Schneider, M. Stillhart, P. Gunter, "High efficiency generation and detection of terahertz pulses using laser pulses at telecommunication wavelengths", *Optics Express* **14** (2006) 5376
DOI: 10.1364/OE.14.005376
- A. Schneider, P. Gunter, "Measurement of the terahertz-induced phase shift in electro-optic sampling for an arbitrary biasing phase", *Applied Optics* **45** (2006) 6598
DOI: 10.1364/AO.45.006598
- O.P. Kwon, B. Ruiz, A. Choubey, L. Mutter, A. Schneider, M. Jazbinsek, V. Gramlich, P. Gunter, "Organic nonlinear optical crystals based on configurationally locked polyene for melt growth", *Chemistry of Materials* **18** (2006) 4049
DOI: 10.1021/cm0610130
- Z. Yang, S. Aravazhi, A. Schneider, P. Seiler, M. Jazbinsek, P. Gunter, "Single crystals of stilbazolium derivatives for second-order nonlinear optics", *Advanced Functional Materials* **15** (2005) 1072
DOI: 10.1002/adfm.20050036
- A. Schneider, P. Gunter, "Spectrum of terahertz pulses from organic DAST crystals", *Ferroelectrics* **318** (2005) 83
DOI: 10.1080/00150190590966090

A. Schneider, I. Biaggio, P. Gunter, "Terahertz-induced lensing and its use for the detection of terahertz pulses in a birefringent crystal", *Applied Physics Letters* **84** (2004) 2229
DOI: 10.1063/1.1688986

A. Schneider, I. Biaggio, P. Gunter, "Optimized generation of THz pulses via optical rectification in the organic salt DAST", *Optics Communications* **224** (2003) 337
DOI: 10.1016/j.optcom.2003.07.013