

## List of publications THz generation using our organic crystals DAST, DSTMS & OH1

### DSTMS

Stillhart, M.; Schneider, A. & Gunter, P.  
Optical properties of 4-N,N-dimethylamino-4'-N'-methyl-stilbazolium 2,4,6-trimethylbenzenesulfonate crystals at terahertz frequencies  
*J. Opt. Soc. Am. B*, **2008**, 25, 1914-1919

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Linear and nonlinear optical properties of the organic crystal DSTMS  
*J. Opt. Soc. Am. B*, **2007**, 24, 2556-2561

Yang, Z.; Mutter, L.; Stillhart, M.; Ruiz, B.; Aravazhi, S.; Jazbinsek, M.; Schneider, A.; Gramlich, V. & Gunter, P.  
Large-size bulk and thin-film stilbazolium-salt single crystals for nonlinear optics and THz generation  
*Adv. Funct. Mater.*, **2007**, 17, 2018-2023

### DAST

Hauri, C. P.; Ruchert, C.; Vicario, C. & Ardana, F.  
Strong-field single-cycle THz pulses generated in an organic crystal  
*Appl. Phys. Lett.*, **2011**, 99, 161116

Martin, M.; Mangeney, J.; Crozat, P. & Mounaix, P.  
Comparison of GaAs and DAST electro-optic crystals for THz time domain spectroscopy using 1.55  $\mu\text{m}$  fiber laser pulses  
*Terahertz Technology And Applications Iv*, **2011**, 7938, 793807

Cunningham, P. D. & Hayden, L. M.  
Optical properties of DAST in the THz range  
*Opt. Express*, **2010**, 18, 23620-23625

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Optical phase detection in a 4-N,N-dimethylamino-4'-N'-methyl-stilbazolium tosylate crystal for terahertz time domain spectroscopy system at 1.55  $\mu\text{m}$  wavelength  
*Appl. Phys. Lett.*, **2010**, 97, 111112

Liu, J. J.; Schmutz, H. & Merkt, F.  
Generation of widely tunable Fourier-transform-limited terahertz pulses using narrowband near-infrared laser radiation  
*J. Mol. Spectrosc.*, **2009**, 256, 111-118

Liu, J. J. & Merkt, F.  
Generation of tunable Fourier-transform-limited terahertz pulses in 4-N, N-dimethylamino-4'-N'-methyl stilbazolium tosylate crystals  
*Appl. Phys. Lett.*, **2008**, 93, 131105

Jazbinsek, M.; Mutter, L. & Gunter, P.  
Photonic Applications With the Organic Nonlinear Optical Crystal DAST  
*IEEE J. Sel. Top. Quantum Electron.*, **2008**, 14, 1298-1311

McLaughlin, C. V.; Hayden, L. M.; Polishak, B.; Huang, S.; Luo, J. D.; Kim, T. D. & Jen, A. K. Y.  
Wideband 15 THz response using organic electro-optic polymer emitter-sensor pairs at telecommunication wavelengths  
*Appl. Phys. Lett.*, **2008**, 92, 151107

Schneider, A.; Brunner, F. D. J. & Gunter, P.  
Determination of the refractive index over a wide wavelength range through time-delay measurements of femtosecond pulses  
*Opt. Commun.*, **2007**, 275, 354-358

Zheng, X. M.; McLaughlin, C. V.; Cunningham, P. & Hayden, L. M.  
Organic broadband terahertz sources and sensors  
*J. Nanoelectron. Optoelectron.*, **2007**, 2, 58-76

Schneider, A.; Stillhart, M.; Yang, Z.; Brunner, F. & Gunter, P.  
Improved emission and coherent detection of few-cycle terahertz transients using laser pulses at 1.5  $\mu\text{m}$  - art. no. 658211  
*Nonlinear Optics and Applications II*, **2007**, 6582, 658211

Schneider, A.; Neis, M.; Stillhart, M.; Ruiz, B.; Khan, R. U. A. & Gunter, P.  
Generation of terahertz pulses through optical rectification in organic DAST crystals: theory and experiment  
*J. Opt. Soc. Am. B*, **2006**, 23, 1822-1835

Schneider, A.; Stillhart, M. & Gunter, P.  
High efficiency generation and detection of terahertz pulses using laser pulses at telecommunication wavelengths  
*Opt. Express*, **2006**, 14, 5376-5384

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*Ferroelectrics*, **2005**, 318, 83-88

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Electro-optic sampling system with a single-crystal 4-N,N-dimethylamino-4'-N'-methyl-4-stilbazolium tosylate sensor  
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*Chimia*, **2003**, 57, 349-351

## OH1

Hunziker, C.; Kwon, S. J.; Figi, H.; Juvalta, F.; Kwon, O. P.; Jazbinsek, M. & Gunter, P.  
Configurationaly locked, phenolic polyene organic crystal 2-3-(4-hydroxystyryl)-5,5-dimethylcyclohex-2-enylidenemalononitrile: linear and nonlinear optical properties  
*J. Opt. Soc. Am. B*, **2008**, 25, 1678-1683

Brunner, F. D. J.; Kwon, O. P.; Kwon, S. J.; Jazbinsek, M.; Schneider, A. & Gunter, P.  
A hydrogen-bonded organic nonlinear optical crystal for high-efficiency terahertz generation and detection  
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*Adv. Funct. Mater.*, **2008**, 18, 3242-3250