

**Wissenschaftliche Publikationen |  
Scientific Publications**

**Zeitschriften | Journals**

Albero, J.; Bargiel, S.; Passilly, N.; Dannberg, P.; Stumpf, M.; Zeitner, U. D.; Rousselot, C.; Gastinger, K.; Gorecki, C.

**Micromachined array-type Mirau interferometer for parallel inspection of MEMS**  
Journal of Micromechanics and Microengineering 21 (2011) 6 065005, ISSN 0960-1317

Barr, B. W.; Edgar, M. P.; Nelson, J.; Plissi, M. V.; Huttner, S. H.; Sorazu, B.; Strain, K. A.; Burmeister, O.; Britzger, M.; Friedrich, D.; Schnabel, R.; Danzmann, K.; Hallam, J.; Freise, A.; Clausnitzer, T.; Brückner, F.; Kley, E.-B.; Tünnermann, A.

**Translational, rotational, and vibrational coupling into phase in diffractively coupled optical cavities**

Optics Letters 36 (2011) 14 p. 2746–2748, ISSN 0146-9592

Baumgartl, M.; Jansen, F.; Stutzki, F.; Jauregui, C.; Ortaç, B.; Limpert, J.; Tünnermann, A.

**High average and peak power femto-second large-pitch photonic-crystal-fiber laser**

Optics Letters 36 (2011) 2 p. 244–246, ISSN 0146-9592

Baumgartl, M.; Ortaç, B.; Schreiber, T.; Limpert, J.; Tünnermann, A.

**Ultrashort pulse formation and evolution in mode-locked fiber lasers**

Applied Physics B: Lasers and Optics 104 (2011) 3 p. 523–536, ISSN 0946-2171

Bischoff, M.; Stenzel, O.; Friedrich, K.; Wilbrandt, S.; Gäbler, D.; Mewes, S.; Kaiser, N.

**Plasma-assisted deposition of metal fluoride coatings and modeling the extinction coefficient of as-deposited single layers**

Applied Optics 50 (2011) 9 p. C232–C238, ISSN 0003-6935

Blázquez-Sánchez, D.; Weichert, B.; Austerschulte, A.; Voss, A.; Graf, T.; Killi, A.; Eckstein, H.-C.; Stumpf, M.; Matthes, A. L.; Zeitner, U. D.

**Improving the brightness of a multi-kilowatt single thin-disk laser by an aspherical phase front correction**

Optics Letters 36 (2011) 6 p. 799-801, ISSN 0146-9592

Brahm, A.; Wichmann, F.; Gerth, C.; Tymoshchuk, M.; Riehemann, S.; Notni, G.; Tünnermann, A.

**Terahertz Computed Tomography Helps ID Chemical Substances**

PHOTONICS Spectra 12/ 2011, 40–43 (2011)

Braig, C.; Käsebier, T.; Kley, E.-B.; Tünnermann, A.

**Stand-alone diamond binary phase transmission gratings for the EUV band**

Optics Express 19 (2011) 15 p. 14008-14017, ISSN 1094-4087

Brand, U.; Beckert, E.; Beutler, A.; Dai, G.; Stelzer, C.; Hertwig, A.; Klapetek, P.; Koglin, J.; Thelen, R.; Tutsch, R.

**Comparison of optical and tactile layer thickness measurements of polymers and metals on silicon or SiO<sub>2</sub>**

Measurement Science and Technology 22 (2011) 9 094021, ISSN 0957-0233

Britzger, M.; Friedrich, D.; Kroker, S.; Brückner, F.; Burmeister, O.; Kley, E.-B.; Tünnermann, A.; Danzmann, K.; Schnabel, R.

**Diffractively coupled Fabry-Perot resonator with power-recycling**

Optics Express 19 (2011) 16 p. 14964–14975, ISSN 1094-4087

Britzger, M.; Friedrich, D.; Kroker, S.; Brückner, F.; Burmeister, O.; Kley, E.-B.; Tünnermann, A.; Danzmann, K.; Schnabel, R.

**Pound-Drever-Hall error signals for the length control of three-port grating coupled cavities**

Applied Optics 50 (2011) 22 p. 4340–4346, ISSN 0003-6935

Bromage, J.; Rothhardt, J.; Hädrich, S.; Dorrer, C.; Jocher, C.; Demmler, S.; Limpert, J.; Tünnermann, A.; Zuegel, J.D.

**Analysis and suppression of parasitic processes in noncollinear optical parametric amplifiers**

Optics Express 19 (2011) 18 p. 16797-16808, ISSN 1094-4087

Brückner, F.; Kroker, S.; Friedrich, D.; Kley, E.-B.; Tünnermann, A.

**Widely tunable monolithic narrowband grating filter for near-infrared radiation**

Optics Letters 36 (2011) 4 p. 436-438, ISSN 0146-9592

Brückner, A.; Leitel, R.; Oberdörster, A.; Dannberg, P.; Wippermann, F.; Bräuer, A.

**Multi-aperture optics for wafer-level cameras**

Journal of Micro/Nanolithography, MEMS, and MOEMS 10 (2011) 4 043010, ISSN 1932-5150

Chipouline, A.; Petschulat, J.; Tünnermann, A.; Pertsch, T.; Menzel, C.; Rockstuhl, C.; Lederer, F.

**Multipole approach in electrodynamics of metamaterials**

Applied Physics A: Materials Science & Processing 103 (2011) 3 p. 899–904, ISSN 0947-8396

Coriand, L.; Mitterhuber, M.; Duparré, A.; Tünnermann, A.

**Definition of roughness structures for superhydrophobic and hydrophilic optical coatings on glass**

Applied Optics 50 (2011) 9 p. 257–263, ISSN 0003-6935

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- Optimized electron beam writing strategy for fabricating computer-generated holograms based on an effective medium approach**
- Optics Express 19 (2011) 9 p. 8684–8692, ISSN 1094-4087
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- Applied Optics 50 (2011) 9 C321-C328, ISSN 0003-6935
- Gödeker, C.; Schulz, U.; Kaiser, N.
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SPIE Advanced Lithography 2011, 27.2.–4.3.2011, San Jose, CA, USA	SPIE Advanced Lithography 2011, 27.2.–4.3.2011, San Jose, CA, USA	SPIE Advanced Lithography 2011, 27.2.–4.3.2011, San Jose, CA, USA
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