

Scientific Publications

Bücher Books

Duparré, A.
Light Scattering Techniques for the Inspection of Microcomponents and Microstructures
Optical Methods for the Inspection of Microsystems (2006) p. 103-119, ISBN 0-8493-3682-1

Eberhardt, R.; Beckert, E.; Buß, W.; Karthe, W.; Mauroner, O.; Notni, G.; Tünnermann, A.; Wächter, C.
Produktion von mikrooptischen Bauteilen und Systemen. Status und Perspektiven.
Jena, September 2006

Karthe, W.; Wächter, C.
Optik und Informationstechnik
Technologieführer Grundlagen, Anwendungen, Trends (2006) S. 98-103, ISBN 3-540-33788-1

Kühmstedt, P.; Notni, G.
Mehrbild-Messsysteme in 3D: Multiview-Systeme in Rapid Prototyping- und Qualitätssicherungs-Prozessketten
Berührungslose Messtechnik (2006) S. 24-27, ISBN 3-9259-1941-2

Schreiber, P.; Kudaev, S.
Homogenisierte LED-Lichtquellen
Jahrbuch für Optik und Feinmechanik 2005 (2005) S. 149-158, ISBN 3-7949-0726-4

Zeitschriften Journals

Andersen, T.V.; Schmidt, O.; Bruchmann, C.; Limpert, J.; Agueraray, C.; Cormier, E.; Tünnermann, A.
High repetition rate tuneable femtosecond pulses and broadband amplification from fiber laser pumped parametric amplifier
Optics Express 14 (2006) 11 p. 4765-4773, ISSN 1094-4087

Augustin, M.; Iliew, R.; Etrich, C.; Setzpfandt, F.; Fuchs, H.-J.; Kley, E.-B.; Nolte, S.; Pertsch, T.; Lederer, F.; Tünnermann, A.
Dispersion properties of photonic crystal waveguides with a low in-plane index contrast
New Journal of Physics 8 (2006) 9 p. 1-13, ISSN 1367-2630

Bauer, N.; Notni, G.; Scherer, S.; Schick, A.
Ganz sicher kein ‚Knick in der Optik!‘ – Oberflächen konfokal messen
Inspect (2006) 1 S. 78-79

Beckert, E.
Integration auf Keramik: Optoelektronik für die Analysetechnik
Photonik 38 (2006) 3 S. 18, ISSN 1432-9778

Blömer, D.; Szameit, A.; Dreisow, F.; Schreiber, T.; Nolte, S.; Tünnermann, A.
Nonlinear refractive index of fs-laser-written waveguides in fused silica
Optics Express 14 (2006) 6 p. 2151-2157, ISSN 1094-4087

Blum, M.; Kunert, K.; Nolte, S.; Riehemann, S.; Palme, M.; Peschel, T.; Dick, M.; Dick, H.-B.
Presbyopietherapie mit Femtosekundenlaser
Der Ophthalmologe 103 (2006) 12 S. 1014-1019, ISSN 0941-293X

Bunkowski, A.; Burmeister, O.; Clausnitzer, T.; Kley, E.-B.; Tünnermann, A.; Danzmann, K.; Schnabel, R.
Diffraction optics for gravitational wave detectors
Journal of Physics: Conference Series 32 (2006) 1 p. 333-338, ISSN 1742-6588

Bunkowski, A.; Burmeister, O.; Clausnitzer, T.; Kley, E.-B.; Tünnermann, A.; Danzmann, K.; Schnabel, R.
Optical characterization of ultrahigh diffraction efficiency gratings
Applied Optics 45 (2006) 23 p. 5795-5799, ISSN 0003-6935

Bunkowski, A.; Burmeister, O.; Danzmann, K.; Schnabel, R.; Clausnitzer, T.; Kley, E.-B.; Tünnermann, A.
Demonstration of three-port grating phase relations
Optics Letters 31 (2006) 16 p. 2384-2386, ISSN 0146-9592

Burghoff, J.; Grebing, C.; Nolte, S.; Tünnermann, A.
Efficient frequency doubling in femtosecond laser-written waveguides in lithium niobate
Applied Physics Letters 89 (2006) 8 p. 081108, ISSN 0003-6951

Chen, C.-C.; Pertsch, T.; Iliew, R.; Lederer, F.; Tünnermann, A.
Directional emission from photonic crystal waveguides
Optics Express 14 (2006) 6 p. 2423-2428, ISSN 1094-4087

Duparré, J.; Wippermann, F.; Dannberg, P.; Reimann, A.
Chirped arrays of ellipsoidal microlenses for aberration correction under oblique incidence
Optics Express 13 (2005) 26 p. 10539-10551, ISSN 1094-4087

Duparré, J.; Wippermann, F.
Microoptical artificial compound eyes
Bioinspiration & Biomimetics 1 (2006) 1 R1-R16, ISSN 1748-3182

Feigl, T.; Yulin, S.; Benoit, N.; Kaiser, N.
EUV multilayer optics
Microelectronic Engineering 83 (2006) 4-9 Spec. Iss. p. 703-706, ISSN 0167-9317
Flemming, M.; Duparré, A.

Design and characterization of nanostructured ultra-hydrophobic coatings
Applied Optics 45 (2006) 7 p. 1397-1401, ISSN 0003-6935

Fuchs, U.; Zeitner, U.D.; Tünnermann, A.
Hybrid optics for focusing ultrashort laser pulses
Optics Letters 31 (2006) 10 p. 1516-1518, ISSN 0146-9592

Garwe, F.; Rockstuhl, C.; Etrich, C.; Hübner, U.; Bauerschäfer, U.; Setzpfandt, F.; Augustin, M.; Pertsch, T.; Tünnermann, A.; Lederer, F.
Evaluation of gold nanowire pairs as a potential negative index material
Applied Physics B: Lasers and Optics 84 (2006) 1-2 p. 139-148, ISSN 0946-2171

Gatto, A.; Yang, M.; Kaiser, N.; Schmidt, J.U.; Sandner, T.; Schenk, H.; Lakner, H.
High-performance coatings for micromechanical mirrors
Applied Optics 45 (2006) 7 p.1602-1607, ISSN 0003-6935

Giesen, A.; Tünnermann, A.
Laserforschung in Deutschland
Laser Technik Journal (2006) 2 S. 9-12, ISSN 0143-6570

Hädrich, S.; Schreiber, T.; Pertsch, T.; Limpert, J.; Peschel, T.; Eberhardt, R.; Tünnermann, A.
Thermo-optical behavior of rare-earth-doped low-NA fibers in high power operation
Optics Express 14 (2006) 13 p. 269-275, ISSN 1094-4087

Heger, P.; Stenzel, O.; Kaiser, N.
Design and fabrication of selective thin film absorbers on the basis of silver island films
VIP Vacuum's best (2006) p. 53-56

Janicki, V.; Gäbler, D.; Wilbrandt, S.; Leitl, R.; Stenzel, O.; Kaiser, N.; Lappschies, M.; Görtz, B.; Ristau, D.; Rickers, C.; Vergöhl, M.
Deposition and spectral performance of an inhomogeneous broadband wide angular antireflective coating
Applied Optics 45 (2006) 30 p. 7851-7857, ISSN 0003-6935

Kachan, S.; Stenzel, O.; Ponyavina, A.
High-absorbing gradient multilayer coatings with silver nanoparticles
Laser and Optics B 84 (2006) 1-2 p. 281-287, ISSN 1098-0121

Kaiser, N.
Neue Entwicklungen auf dem Gebiet optischer Schichten
Photonik 38 (2006) 6 S. 50-52

- Kalkowski, G.; Risse, S.; Müller, S.; Harnisch, G.
Electrostatic chuck for EUV masks
Microelectronic Engineering 83 (2006) 4-5 p. 714-717, ISSN 0167-9317
- Leitel, R.; Heger, P.; Stenzel, O.; Kaiser, N.
Theoretical treatment of thermal shifts in resonant grating waveguide
Journal of Optics A: Pure and Applied Optics 8 (2006) 3 p. 333-337, ISSN 1464-4258
- Leitel, R.; Stenzel, O.; Wilbrandt, S.; Gäbler, D.; Janicki, V.; Kaiser, N.
Optical and non-optical characterization of Nb₂O₅-SiO₂ compositional gradient index layers and rugate structures
Thin Solid Films 497 (2006) 1-2 p. 135-141, ISSN 0040-6090
- Limpert, J.; Röser, F.; Schreiber, T.; Manek-Hönniger, I.; Salin, F.; Tünnermann, A.
Ultrafast high power fiber laser systems
Comptes Rendus Physique 7 (2006) 2 p. 187-197, ISSN 1631-0705
- Limpert, J.; Röser, F.; Schreiber, T.; Tünnermann, A.
High-power ultrafast fiber laser systems
IEEE Journal on Selected Topics in Quantum Electronics 12 (2006) 2 p. 233-244, ISSN 1077-260X
- Limpert, J.; Schmidt, O.; Rothhardt, J.; Röser, F.; Schreiber, T.; Tünnermann, A.; Ermeneux, S.; Yvernault, P.; Salin, F.
Extended single-mode photonic crystal fiber lasers
Optics Express 14 (2006) 7 p. 2175-2720, ISSN 1094-4087
- Matthäus, G.; Burghoff, J.; Will, M.; Nolte, S.; Tünnermann, A.
Thermal effects vs. gain in femtosecond laser written waveguides in neodymium doped fused silica
Applied Physics A: Materials Science and Processing 83 (2006) 3 p. 347-350, ISSN 0947-8396
- Matthäus, G.; Schreiber, T.; Limpert, J.; Nolte, S.; Torosyan, G.; Beigang, R.; Riehemann, S.; Notni, G.; Tünnermann, A.
Surface-emitted THz generation using a compact ultrashort pulse fiber amplifier at 1064 nm
Optics Communications 261 (2006) 1 p. 114-117, ISSN 0030-4018
- Michaelis, D.; Wächter, C.; Burger, S.; Zschiedrich, L.; Bräuer, A.
Micro-optically assisted high index waveguide coupling
Applied Optics 45 (2006) 8 p. 1831-1838, ISSN 0003-6935
- Mohaupt, M.; Eberhardt, R.; Damm, C.; Peschel, T.; Tünnermann, A.; Haugeneder, E.; Döring, H.-J.; Brandstätter, C.
Assembly of an aperture plate system for projection mask-less lithography
Microelectronic Engineering 83 (2006) 4-9 Spec. Iss. p. 980-983, ISSN 0167-9317
- Notni, G.
Hohes Potenzial – Einsatz von 3D-Messsystemen in der Produktionsumgebung
Gießerei-Erfahrungsaustausch (2006) 7-8 p. 10-13, ISSN 0016 – 9733
- Notni, G.
Streifenprojektion – Unterschiedliche Systemkonzepte realisieren
PRAXIS PROFILINE – Berührungslose Messtechnik (2006) Nov. S. 2-4
- Notni, G.; Kühmstedt, P.
Produktinfos zu: Kolibri flex auto, Kolibri 1500, hiScanµ
Fortschritt-Berichte VDI: Virtual and Rapid Prototyping, Reihe 2, Nr. 656 (2006) S. 33-34
- Pradarutti, B.; Matthäus, G.; Brückner, C.; Limpert, J.; Riehemann, S.; Notni, G.; Nolte, S.; Tünnermann, A.
Electrooptical sampling of ultra-short THz pulses by fs-laser pulses at 1060 nm
Applied Physics B: Lasers and Optics 85 (2006) 1 p. 59-62, ISSN 0946-2171
- Riehemann, S.
Bilder in den Kopf bringen
GIT Labor-Fachzeitschrift (2006) 3 S. 168, ISSN 0016-3538
- Riehemann, S.
Fraunhofer readies medical visualization system
PROJECTION monthly 4 (2006) 1 S. 34, ISSN 1544-7324
- Riehemann, S.
Optisches Stimulationssystem für die Medizin
Photonik 38 (2006) 2, ISSN 1432-9778
- Roma, G.; Belardini, A.; Michelotti, F.; Danz, N.; Pace, A.; Sarto, F.; Montereali, R.M.
Micro-Cavity Organic Light Emitting Diodes for Biochip Applications
Journal of Non-crystalline Solids 352 (2006) 23-25 p. 2476-2479, ISSN 0022-3093
- Schreiber, P.; Kudaev, S.
Micro-optics for LED light sources
Photonik International (2006) p. 111-113, ISSN 1432-9778
- Schreiber, T.; Nielsen, C.K.; Ortac, B.; Limpert, J.; Tünnermann, A.
Microjoule-level all-polarization-maintaining femtosecond fiber source
Optics Letters 31 (2006) 5 p. 574-576, ISSN 0146-9592
- Schröder, S.; Duparré, A.; Tünnermann, A.
Bewertung von Nanorauheiten durch Streulichtmessung
tm – Technisches Messen 73 (2006) 1 S. 35-42, ISSN 0171-8096
- Schröder, S.; Kamprath, M.; Duparré, A.; Tünnermann, A.; Kühn, B.; Klett, U.
Bulk scattering properties of synthetic fused silica at 193 nm
Optics Express 14 (2006) 22 p. 10537-10549, ISSN 1094-4087
- Schulz, U.
Review of modern techniques to generate antireflective properties on thermoplastic polymers
Applied Optics 45 (2006) 7 p. 1608-1618, ISSN 0003-6935
- Schulz, U.; Kaiser, N.
Antireflection of polymer optics by coating and nanostructuring procedures
Glass Coatings (2006) 2 p. 48-51
- Schulz, U.; Kaiser, N.
Vacuum coating of plastic optics
Progress in Surface Science 81 (2006) 8-9 p. 387-401, ISSN 0079-6816
- Stollberg, H.; Yulin, S.; Takman, P.A.C.; Hertz H.M.
High-reflectivity Cr/Sc multilayer condenser for compact soft x-ray microscopy
Review of Science Instruments 77 (2006) 12 p. 123101-23106, ISSN 0034-6748
- Szameit, A.; Blömer, D.; Burghoff, J.; Pertsch, T.; Nolte, S.; Tünnermann, A.
Hexagonal waveguide arrays written with fs-laser pulses
Applied Physics B: Lasers and Optics 82 (2006) 4 p. 507-512, ISSN 0946-2171
- Szameit, A.; Burghoff, J.; Pertsch, T.; Nolte, S.; Tünnermann, A.; Lederer, F.
Two-dimensional soliton in cubic fs laser written waveguide arrays in fused silica
Optics Express 14 (2006) 13 p. 231-238, ISSN 1094-4087
- Tikhonravov, A.V.; Trubetskov, M.K.; Amotchkina, T.V.; Kokarev, M.A.; Kaiser, N.; Stenzel, O.; Wilbrandt, S.; Gäbler, D.
New Optimization Algorithm for the synthesis of rugate optical coatings
Applied Optics 45 (2005) 7 p. 1515-1524, ISSN 0003-6935
- Trompeter, H.; Michaelis, D.; Streppel, U.; Pertsch, T.; Peschel, U.; Lederer, F.; Bräuer, A.
Visual Observation of Zener Tunneling
Physical Review Letters 96 (2006) p. 023901-4, ISSN 0031-9007

Wikszak, E.; Thomas, J.; Burghoff, J.; Ortac, B.; Limpert, J.; Nolte, S.; Fuchs, U.; Tünnermann, A.
Erbium fiber laser based on intracore femtosecond-written fiber Bragg grating
Optics Letters 31 (2006) 16 p. 2390-2392, ISSN 0146-9592

Wilbrandt, S.; Kaiser, N.; Stenzel, O.
In-situ broadband monitoring of heterogeneous optical coatings
Thin Solid Films 502 (2005) 1-2 p. 153-157, ISSN 0040-6090

Wippermann, F.
Gechirpte Mikrolinsenarrays für ultra-dünne Kameras
Photonik 38 (2006) 5 S. 2, ISSN 1432-9778

Wippermann, F.; Radtke, D.; Amberg, M.; Sinzinger, S.
Integrated Free-Space Optical Interconnect Fabricated in Planar Optics Using Chirped Microlens Arrays
Optics Express 14 (2006) 22 p. 10765-10778, ISSN 1094-4087

Yang, M.; Gatto, A.; Kaiser, N.
Designs and depositions of vacuum UV narrow bandpass filters for analytical chemistry applications
Applied Optics 45 (2006) 7 p. 1359-1363, ISSN 0003-6935

Yang, M.; Gatto, A.; Kaiser, N.
Highly reflecting aluminium-protected optical coatings for the VUV spectral range
Applied Optics 45 (2006) 1 p. 178-183, ISSN 0003-6935

Yang, M.; Gatto, A.; Kaiser, N.
Optical thin films with high reflectance, low thickness and low stress for the spectral range from vacuum UV to near IR
Journal of Optics A: Pure and Applied Optics 8 (2006) 3 p. 327-332, ISSN 1464-4258

Yulin, S.; Benoit, N.; Feigl, T.; Kaiser, N.
Interface-engineered EUV multilayer mirrors
Microelectronic Engineering 83 (2006) 4-9 Spec. Iss. p. 692-694, ISSN 0167-9317

Eingeladene Vorträge Invited Papers

Bräuer, A.
LED-illumination units with beam shape and colour control
4th Annual Flagship Event 2006 Intelligent Interior Lighting, 30.1. – 1.2.2006, Munich, Germany

Bräuer, A.; Duparré, J.
Compact CMOS-Based Microoptical Imaging Systems
3rd Fraunhofer IMS Workshop CMOS Imaging, 16. – 17.5.2006, Duisburg, Germany

Bräuer, A.
Mikrooptik für kompakte abbildende Systeme und Projektoren
OTTI-Fachforum Design und Herstellung optischer Komponenten und Systeme, 27. – 28.9.2006, Würzburg, Deutschland

Brückner, A.; Duparré, J.; Völkel, R.
Use and advantage of microlens arrays in imaging applications
NEMO-Workshop on Micro-Optics Benefits for Industry, 31.10.2006, Eindhoven, Netherlands

Duparré, A.; Schröder, S.; Tünnermann, A.
Nano-Rauheitsanalyse an funktionalen Oberflächen
VDI Fachtagung Messtechnik für Mikro- und Nano-Engineering, 29. – 30.11.2006, Erlangen, Deutschland

Duparré, J.; Völkel, R.
Novel Optics /Micro-Optics for Miniature Imaging Systems
SPIE Proceedings Vol. 6196 (2006) Paper 619607-1, ISBN 0-8194-6309-4

Duparré, J.; Völkel, R.
Novel Optics /Micro-Optics for Miniature Imaging Systems
Photonics Europe 2006, 3. – 7.4.2006, Strasbourg, France

Duparré, J.; Völkel, R.
Use and advantage of micro lenses in imaging applications
NEMO-Workshop on Micro-Optics-Benefits for Industry at Photonics Europe 2006, 3. – 7.4.2006, Strasbourg, France

Feigl, T.; Yulin, S.; Benoit, N.; Kaiser, N.; Böwering, N.R.; Ershov, A.I.; Khodykin, O.V.; Brandt, D.C.
EUV collector mirrors for high-power LPP sources
SEMATECH EUV Source Workshop, 25.05.2006, Vancouver, Canada

Feigl, T.; Yulin, S.; Benoit, N.; Kaiser, N.
Optiken für extreme ultraviolette Strahlung
Jenaer Technologietag 2006, 4.10.2006, Jena, Deutschland

Duparré, A.; Schröder, S.; Glied, S.
Sensitive und flexible Streulichtmesstechnik für den tiefen UV- bis infraroten Spektralbereich
107. DGaO Tagung, 6. – 10.6.2006, Weingarten, Deutschland

Houbertz, R.; Wolter, W.; Dannberg, P.; Serbin, J.; Uhlig, S.
Advanced packaging materials for optical applications: Bridging the gap between nm-size structures and large-area panel processing
SPIE Proceedings Vol. 6126 (2006) Paper 612605, ISBN: 0-8194-6168-7

Houbertz, R.; Wolter, W.; Dannberg, P.; Serbin, J.; Uhlig, S.
Advanced packaging materials for optical applications: Bridging the gap between nm-size structures and large-area panel processing
Photonics West, 21.-26.1.2006, San Jose, California, USA

Kaiser, N.
Coatings for short and very short wavelengths
Spring-Meeting of the German Physical Society, 27. – 31.3.2006, Dresden, Germany

Lauth, H.; Kaiser, N.
Actual trends in optical coatings
Internal Symposium "Functional thin films – future applications and challenges", 27.3.2006, Dresden, Germany

Limpert, J.; Röser, F.; Schreiber, T.; Tünnermann, A.
Energy High Repetition Rate Ultrashort Pulse Fiber Lasers
LEOS Annual Meeting 2006, 29.10. – 2.11.2006, Montreal, Canada

Limpert, J.; Schreiber, A.; Tünnermann, A.
Photonic Crystal Fibers for Fiber Lasers and Amplifiers
OFC/NFOEC 2005 Workshop on Photonic Crystal Fibers, 6. – 11.3.2005, Anaheim, California, USA

Limpert, J.; Schreiber, T.; Röser, F.; Tünnermann, A.
Intense ultra-short fiber laser systems and their applications
Photonics West, 21. – 26.1.2006, San Jose, California, USA

- Notni, G.
Multi-view 3D-scanning with fringe projection
Internationales Dagstuhl Seminar "Sensor Data and Information Fusion in Computer Vision and Medicine", 1.8.2006, Dagstuhl, Germany
- Notni, G.
Non-destructive optical 3D-Scanner for surgical uses
MedTec R&D Conference, 7.3.2006, Stuttgart, Germany
- Notni, G.
Production and characterization of UP forms
31st Technology Transfer Forum "Metrology@Schott", 7.9.2006, Mainz, Germany
- Schreiber, T.; Röser, F.; Limpert, J.; Tünnermann, A.
High peak power operation of microstructured fibers and their applications
Symposium on high power Fiber Lasers, XII Conference on Laser Optics, 26. – 30.6.2006, St. Petersburg, Russia
- Schreiber, T.; Röser, F.; Schmidt, O.; Limpert, J.; Tünnermann, A.; Iliw, R.; Petersson, A.; Jacobsen, C.; Hansen, K.P.; Broeng, J.
Design and high power operation of a stress-induced single-polarization single-transverse mode LMA Yb-doped photonic crystal fiber
Photonics West, 21.-26.1.2006, San Jose, California, USA
- Schreiber, T.; Schmidt, O.; Limpert, J.; Tünnermann, A.
High power rod-type photonic crystal fiber lasers
Symposium on high power Fiber Lasers, XII Conference on Laser Optics, 26. – 30.6.2006, St. Petersburg, Russia
- Schulz, U.; Kaiser, N.
Trends and challenges in vacuum coating of plastic optics
Proceedings of ICCG6, 6th International Conference on Coatings on Glass and Plastics ICCG, 18. – 22.6.2006, Dresden, Germany (2006) p. 181-184
- Schulz, U.; Kaiser, N.; Tünnermann, A.
Entspiegelung von Kunststoffoberflächen
2. Thüringer Grenz- und Oberflächentagung, 13. – 14.9.2006, Oberhof, Deutschland
- Tünnermann, A.
Faserlaser und -verstärker
Physikalisches Kolloquium Universität Paderborn, 8.2.2006, Paderborn, Deutschland
- Tünnermann, A.
Femtosecond fiber lasers and amplifiers – status and perspectives
Sensor+Test 2006, 30.5. – 1.6.2006, Nürnberg, Germany
- Tünnermann, A.
High power fiber lasers and amplifiers (Plenary)
LPHYS'06, 24. – 28.7.2006, Lausanne, France
- Tünnermann, A.
High power pulsed fiber lasers
XII Conference on Laser Optics, 26. – 30.6.2006, St. Petersburg, Russia
- Tünnermann, A.
Hochleistungsfaserlaser und -verstärker: Stand und Perspektiven der Entwicklung (Plenarvortrag)
Lasertagung 2006, 23. – 24.11.2006, Fachhochschule Jena, Deutschland
- Tünnermann, A.
Micro- and Nano-Optical Systems: Markets and Prospects
Aachener Optikkolloquium, Fraunhofer IPT, 22. – 23.11.2006, Aachen, Germany
- Tünnermann, A.
Mikro- und Nanooptik – Komponenten moderner optischer Systeme in Automotive, Produktion, Sensorik und Life Science (Key-note-Vortrag)
OPTATEC, Spectaris-Analystenkonferenz, 20. – 23.6.2006, Frankfurt (M), Deutschland
- Tünnermann, A.
Status and perspectives of fiber lasers
XVI. International Symposium on Gas Flow and Chemical Lasers & High Power Lasers Conference – GCL/HPL, 5.9.2006, Gmunden, Austria
- Tünnermann, A.
Status and perspectives of fiber lasers and amplifiers
CIPI-COPL-Workshop on Fibre Lasers, 19.5.2006, Quebec, Canada
- Tünnermann, A.
Status and perspectives of high power fiber lasers
Ninth Annual Directed Energy Symposium, 30.10. – 3.11.2006, Albuquerque, New Mexico, USA
- Tünnermann, A.
Ultrakurzpuls-Faserlaser und -verstärker (Plenarvortrag)
Frühjahrstagung der Deutschen Physikalischen Gesellschaft, 27. – 30.3.2006, Augsburg, Deutschland
- Yulin, S.; Benoit, N.; Feigl, T.; Kaiser, N.; Dollar, F.; Gullikson, E.; Hill, S.; Lucatorto, T.; Fang, M.; Chandhok, M.; Shell, M.
Mo/Si with enhanced capping layers
SEMATECH EUV – Optics Contamination & Lifetime Workshop, 19.10.2006, Barcelona, Spain
- Zeitner, U.D.
Lithographic micro-patterning on free-forms
International Conference on Optics and Optoelectronics 2005, 12. – 15.12.2005, Dheradun, India
- Zeitner, U.D.; Kley, E.-B.
Advanced lithography for micro-optics
SPIE Proceedings Vol. 6290 (2006) Paper 629009, ISBN 0-8194-6369-8
-
- Vorträge, Poster, Konferenzen**
Lectures, Posters, Conferences
- Andersen, T.V.; Schreiber, T.; Schimpf, D.; Limpert, J.; Tünnermann, A.; Qian, Y.; Thomsen, C.L.
Supercontinuum generation with femtosecond dual pumping
SPIE Proceedings Vol. 6103 (2006) Paper 61030X, ISBN 0-8194-6145-8
- Aguergaray, C.; Andersen, T.V.; Schmidt, O.; Röser, F.; Bruchmann, C.; Limpert, J.; Cormier, E.; Tünnermann, A.
Ultrafast parametric amplifier pumped by a fiber laser system
SPIE Proceedings Vol. 6103 (2006) Paper 61030H, ISBN 0-8194-6145-8
- Bayer, A.; Barkusky, F.; Peth, C.; Töttger, H.; Mann, K.; Feigl, T.; Kaiser, N.
Imaging properties of different optics for EUV radiation
SPIE Proceedings Vol. 5962 (2005) p. 223-234, ISBN 0-8194-5980-1
- Beckert, E.
Optoelectronic System Integration by Laserbeam Soldering on Ceramic PCB
Forumsbeitrag Optatec, 23.6.2006, Frankfurt, Germany
- Beckert, E.; Banse, H.; Eberhardt, R.; Tünnermann, A.
Microoptics soldering on multifunctional system platforms
Photonics Europe 2006, 3. – 7.4.2006, Strasbourg, France
SPIE Proceedings Vol. 6185 (2006) Paper 618509, ISBN 0-8194-6241-1
- Benoit, N.; Yulin, S.; Feigl, T.; Kaiser, N.
Multilayer mirrors with enhanced thermal stability
The 8th International Conference on the Physics of X-ray Multilayer Structures, 12. – 16.3.2006, Sapporo, Japan
- Benoit, N.; Yulin, S.; Feigl, T.; Kaiser, N.
EUV multilayer mirrors with enhanced stability
Optics & Photonics, 13. – 17.8.2006, San Diego, California, USA
SPIE Proceedings Vol. 6317 (2006) Paper 63170K, ISBN 0-8194-6396-5

- Bischoff, M.; Stenzel, O.; Gäbler, D.; Kaiser, N.
Properties of chirped mirrors manufactured by plasma assisted electron beam evaporation
SPIE Proceedings Vol. 5963 (2005) p. 474-482, ISBN 0-8194-5981-X
- Bräuer, A.
Compact CMOS-Based Microoptical Imaging Systems
Fraunhofer Seminar on Advanced Micro Optics, 29.5.2006, Tokyo, Japan
- Bräuer, A.
Farb- und Abstrahlmanagement
Osram Technologietag, 15.3.2006, München, Deutschland
- Bräuer, A.
Mikrooptik für kompakte abbildende Systeme und Projektoren
Kolloquium Carl Zeiss Oberkochen, 5.7.2006, Oberkochen, Deutschland
- Bräuer, A.
Mikrooptik zur LED-Strahlformung
VDI-Tagung Optische Technologien, 21. – 22.11.2006, Düsseldorf, Deutschland
- Bräuer, A.
Miniaturized Scanning Laser Projector
Sendai Hetero System Integration Workshop, 6. – 7.11.2006, Sendai, Japan
- Bräuer, A.; Höfer, B.; Schreiber, P.
Miniaturized Scanning Laser Projector
Optatec 2006, 20. – 23.6.2006, Frankfurt (M.), Germany
- Bräuer-Buchardt, C.; Heinze, M.; Munkelt, C.; Kühmstedt, P.; Notni, G.
Distance Dependent Lens Distortion Variation in 3D Measuring Systems Using Fringe Projection
17th British Machine Vision Conference 2006, 4. – 7.9.2006, Edinburgh, Great Britain
Proceedings of the 17th British Machine Vision Conference 2006, 4. – 7.9.2006, Edinburgh, Great Britain Vol. 1 (2006) p. 327-336, ISBN 1-904410-14-6
- Brückner, A.; Duparré, J.; Schreiber, P.; Tünnermann, A.
Hochgenaue Positionsbestimmung und Farbsehen mit ultra-flachen, künstlichen Facettenaugen
107. DGaO Tagung, 6. – 10.6.2006, Weingarten, Deutschland
DGaO-Proceedings 2006, 6. – 10.6.2006, Weingarten, Deutschland
www.dgao-proceedings.de, ISSN 1614-8436
- Brückner, C.; Palme, M.; Lippmann, U.; Riehemann, S.; Notni, G.; Tünnermann, A.
Aspekte zum Design von THz-Optik
DGaO-Proceedings 2006, 6.-10.6.2006, Weingarten, Deutschland www.dgao-proceedings.de, ISSN 1614-8436
- Brückner, C.; Pradarutti, B.; Riehemann, S.; Stenzel, O.; Steinkopf, R.; Gebhardt, A.; Notni, G.; Tünnermann, A.
Moth-eye structures for reduction of Fresnel losses at THz components
Photonics Europe 2006: Millimeter-Wave and Terahertz Photonics, 3. – 7.4.2006, Strasbourg, France
SPIE Proceedings Vol. 6194 (2006) Paper 61940N, ISBN 0-8194-6250-0
- Brückner, C.; Riehemann, S.; Notni, G.; Tünnermann, A.
Optimized THz Systems for Imaging and Spectroscopic Applications
Joint 31st Int. Conference on Infrared and Millimeter Waves and 14th International Conference on Terahertz Electronics (IRMMW & THz), 18. – 22.9.2006, Shanghai, China
IEEE Proceedings 06EX138
- Brückner, C.; Riehemann, S.; Palme, M.; Notni, G.; Tünnermann, A.
Two-point resolution of optical systems in THz Spectral Range
VDI: 2. Workshop Terahertz Technology, 1. – 2.3.2006, Kaiserslautern, Germany
- Cimalla, V.; Pradarutti, B.; Matthäus, G.; Brückner, C.; Riehemann, S.; Notni, G.; Nolte, S.; Tünnermann, A.; Lebedev, V.; Ambacher, O.
High efficient terahertz emission from InN Surfaces
International Workshop on Nitride Semiconductors, 22. – 27.10.2006, Kyoto, Japan
- Cimalla, V.; Wang, C.; Lebedev, V.; Ecke, G.; Ambacher, O.; Pradarutti, B.; Matthäus, G.; Brückner, C.; Riehemann, S.; Notni, G.; Nolte, S.; Tünnermann, A.
Surface properties and terahertz emission from InN
3rd International Indium Nitride Workshop 12. – 16.11.2006, Ilhabela, Brazil
- Danz, N.; Götz, S.; Hofmann, A.; Kießling, H.; Höfer, B.
Neue optische Auswertung für die markierungsfreie Sensorik mittels Oberflächen-Plasmonen-Resonanz
7. Dresdner Sensor-Symposium (7. DSS) 12. – 14.12.2005, Dresden, Deutschland
- Danz, N.; Götz, S.; Hofmann, A.; Kießling, H.; Höfer, B.
Neue optische Auswertung für die markierungsfreie Sensorik mittels Oberflächen-Plasmonen-Resonanz
Neue Herausforderungen und Anwendungen in der Sensortechnik: neue Trends in der Mess- und Sensortechnik (2006) S. 173-176, ISBN 3-938863-29-3
- Danz, N.; Michaelis, D.; Schreiber, P.; Wächter, C.; Zeitner, U.D.
Mixed-mode Optical Design for Optoelectronic Applications
Progress in Electromagnetics Research Symposium (PIERS), 26. – 29.3.2006, Cambridge, USA
- Duparré, A.
Charakterisierung von Mikro- und Nanostrukturen für funktionale Oberflächen und Schichten
FhG Allianz Vision Seminar, 29. – 30.6.2006, Karlsruhe, Deutschland
Vortragsband FhG Allianz Vision Seminar, 29. – 30.6.2006, Karlsruhe, Deutschland
- Duparré, A.; Flemming, M.; Notni, G.
Methoden zur Charakterisierung von Rauheiten und Defekten an funktionalen Oberflächen
Thüringer Grenz- und Oberflächentage, 13. – 14.9.2006, Oberhof, Deutschland
- Duparré, J.
Neuartige abbildende optische Systeme – inspiriert durch Sehprinzipien der Insekten
353. JENAer Carl-Zeiss-Optikkolloquium, 16.5.2006, Jena, Deutschland
- Duparré, J.; Bräuer, A.; Wippermann, F.
Mikrooptische Systeme für Bildaufnahmen – Funktionalität und Prototyping
Proceedings of Mikrosystemtechnik Kongress 2005, 10. – 15.10.2005, Freiburg, Deutschland
ISBN: 3-8007-2926-1
- Duparré, J.; Wippermann, F.; Dannberg, P.; Schreiber, P.; Bräuer, A.; Völkel, R.; Scharf, T.
Microoptical artificial compound eyes: from design to experimental verification of two different concepts
SPIE Proceedings Vol. 5962 (2006) Paper 59622A, ISBN 0-8194-5980-1
- Egloff, Th.; Buß, W.; Schreiber, P.
Multi-channel confocal chromatic distance sensor for simultaneous micro-topography and surface color measurement
OPTO Kongress, 31.5.2006, Nürnberg, Germany
- Feigl, T.; Yulin, S.; Benoit, N.; Kaiser, N.
Multilayer collector optics for high-power LPP sources
8th International Conference on the Physics of X-Ray Multilayer Structures, 12. – 16.3.2006 Sapporo, Japan
- Feigl, T.; Yulin, S.; Benoit, N.; Kaiser, N.; Böwering, N.R.; Khodykin, O.V.; Brandt, D.
High-temperature LPP collector mirror
Microlithography 2006, 19. – 24.2.2006, San Jose California, USA
Proceedings of SPIE Vol. 6151 (2006) p. 1084-1092, ISBN 0-8194-6194-6
- Flemming, M.; Duparré, A.
Rasterkraftmikroskopische Metrologie an optischen Oberflächen
107. DGaO Tagung, 6. – 10.6.2006, Weingarten, Deutschland
- Fuchs, U.; Zeitner, U.D.; Tünnermann, A.
Optics for focusing of ultra-short laser pulses
SPIE Proceedings Vol. 5962 (2005) Paper 59622L, ISBN 0-8194-5980-1

- Gebhardt, A.; Steinkopf, R.
SPDT of aspherical mirrors
OptoNet Workshop: Ultra precision manufacturing of aspheres, freeforms and microstructures, 16. – 17.5.2006, Jena, Germany
- Janicki, V.; Leitel, R.; Wilbrandt, S.; Stenzel, O.; Gäbler, D.; Kaiser, N.
Design of hybrid coatings composed of homogeneous layers and refractive index gradients
SPIE Proceedings Vol. 5963 (2005) Paper 59631D1, ISBN 0-8194-5981-X
- Jeong, Y.; Liem, A.; Mörl, K.; Höfer, S.; Kim, Y.; Tünnermann, A.; Oh, K.
Q-switching of Yb-doped double-clad fiber laser using micro-optical waveguide on micro-actuating platform modulator for marking applications
SPIE Proceedings Vol. 6102 (2006) Paper 61021K, ISBN 0-8194-6144-X
- Kachan, S.; Stenzel, O.; Ponyavina, A.
High-absorbing gradient multilayer plasmonic coatings
QEP-17: Quantum, Electronics and Photonics, 4. – 7.9.2006, Manchester, Great Britain
- Kaiser, N.
Design optischer Schichtsysteme für kurze und extrem kurze Wellenlängen
Otti Profiforum Schichten, 21. – 22.2.2006, Regensburg, Deutschland
- Kaiser, N.
High performance coatings for UV and EUV (Next Generation Lithography)
DPG Tagung, Vacuum Science and Technology Sectional Programme, 27.3.2006, Dresden, Germany
- Kaiser, N.
Recent advances in optical coatings technology
Photonics Europe 2006, Industry Applications: Specialist Optical Coatings Forum, 4. – 5.4.2006, Strasbourg, France
- Kaiser, N.
Optical Coatings Road-map
NRC Workshop on Optical Coatings, 9. – 13.5.2006, Ottawa, Canada
- Kaiser, N.
Market and Business in the Field for Coatings on Glass & Plastics for Precision Optics and Ophthalmics
6th International Conference on Coatings on Glass and Plastics, 18. – 22.6.2006, Dresden, Germany
- Kaiser, N.
Optische Komponenten und Systeme in der Mikrolithografie
Otti Profiforum Design und Herstellung optischer Komponenten und Systeme
28.9.2006, Würzburg, Deutschland
- Kaiser, N.
Market and Business in the Field for Coatings for Optical Instrumentation
7th Symposium of European Vacuum, 29.9. – 5.10.2006, Anzio, Italy
- Kalkowski, G.; Risse, S.; Müller, S.
Flatness Characterization Techniques for EUV Mask Chucks
Micro- and Nano-Engineering 2006
32nd International Conference, 17. – 20.9.2006, Barcelona, Spain
- Kalkowski, G.; Risse, S.; Peschel, T.; Harnisch, G.
High Precision Tools for Lithography
EUV mask flatness workshop, 19.10.2006, Barcelona, Spain
- Kley, E.-B.; Zeitner, U.D.; Bräuer, A.
Center for Advanced Micro- and Nano-Optics (CMN-Optics)
Fraunhofer Seminar on Advanced Micro Optics, 29.5.2006, Tokyo, Japan
- Kley, E.-B.; Erdmann, T.; Triebel, P.; Fuchs, H.-J.; Horstmann, B.; Nolte, S.; Tünnermann, A.
Nonlinear resonance effects on thin micro structured aluminium metal gratings by high power fs-laser pulses
SPIE Proceedings Vol. 6149 (2006) Paper 614902, ISBN 0-8194-6188-1
- Kudaev, S.
Refractive microoptics for LED beam shaping
EOS Topical Meeting on Micro-Optics, Diffractive Optics and Optical MEMS (TOM 4)
16. – 19.10.2006, Paris, France
Proceedings EOS Topical Meeting on Micro-Optics, p. 35-36
- Kudaev, S.; Schreiber, P.
Optimizing LED illumination systems
SPIES Newsroom
- Kudaev, S.; Schreiber, P.
Parametric Design of Non-Imaging Collimators
International Optical Design Conference IODC, 4. – 8.6.2006, Vancouver, Canada
SPIE Proceedings Vol. 6432 (2006) Paper 634212, ISBN 0-8194-6427-9
- Kühmstedt, P.; Notni, G.
Mehrbild-3D-Messsysteme in Rapid Prototyping- und Qualitätssicherungs-Prozessketten
Fraunhoferseminar mit Praktikum »Optische 3D-Messtechnik für die Qualitätssicherung in der Produktion«, 16. – 17.11.2006, Magdeburg, Deutschland
Konferenzband Fraunhoferseminar mit Praktikum »Optische 3D-Messtechnik für die Qualitätssicherung in der Produktion«, Magdeburg, 16. – 17.11.2006, Magdeburg, Deutschland
- Kühn, B.; Uebbing, B.; Schröder, S.; Duparré, A.; Nishimura, H.; Ikeda, Y.
Intrinsic optical properties of synthetic fused silica for 193 nm immersion lithography
3rd International Symposium on Immersion Lithography, 2. – 5.10.2006, Kyoto, Japan
- Lau, K.; Schulz, U.; Kaiser, N.
Haftfeste optische Beschichtungen auf Biphenol-A Polycarbonat
14. Neues Dresdner Vakuumtechnisches Kolloquium, 19. – 20.10.2006, Dresden, Deutschland
Konferenzband 14. Neues Dresdner Vakuumtechnisches Kolloquium, 19. – 20.10.2006, Dresden, Deutschland, S. 127-131
- Leitel, R.; Kaless, A.; Schulz, U.; Kaiser, N.
Broadband antireflective structures on PMMA by plasma treatment
10th International Conference on Plasma Surface Engineering, 11. – 16.9.2006, Garmisch-Partenkirchen, Germany
- Limpert, J.; Schreiber, T.; Röser, F.; Tünnermann, A.
Intense ultra-short fiber laser systems and their applications
SPIE Proceedings Vol. 6102 (2006) Paper 610213, ISBN 0-8194-6144-X
- Lippmann, U.; Palme, M.; Riehemann, S.; Vangdal, V.; Thomsen, T.
Visuelles Stimulationssystem mit OLED-Mikrodisplays zur Verwendung in einem Magnetresonanztomographen
107. DGaO Tagung, 6. – 10.6.2006, Weingarten, Deutschland
- Matthäus, G.; Schreiber, T.; Limpert, J.; Nolte, S.; Torosyan, G.; Beigang, R.; Riehemann, S.; Notni, G.; Tünnermann, A.
Surface-emitted THz generation using a compact ultrashort pulse fiber amplifier at 1064 nm
SPIE Proceedings Vol. 6108 (2006) Paper 610813, ISBN 0-8194-6150-4
- Matthäus, G.; Pradarutti, B.; Brückner, C.; Riehemann, S.; Notni, G.; Nolte, S.; Cimalla, V.; Lebedev, V.; Ambacher, O.; Tünnermann, A.
Detailed Study of Differently Grown InN Wafers as Strong THz Surface Emitters Excited at 800 nm and 1060 nm
Joint 31st Int. Conference on Infrared and Millimeter Waves and 14th International Conference on Terahertz Electronics (IRMMW & THz), 18. – 22.9.2006, Shanghai, China
IEEE Proceedings 06EX138 (2006) p. 369, ISBN 1-4244-0400-2
- Michaelis, D.; Kudaev, S.; Schreiber, P.; Bräuer, A.
Freeform Beam Shaping
EOS Annual Meeting 2006, 16.-19.10.2006, Paris, France

- Mohaupt, M.; Eberhardt, R.; Beckert, E.; Damm, C.; Peschel, T.; Tünnermann, A.
3-D overlay assembly of mechanical components with sub-micron accuracy
 Euspen 6th International Conference, 28.5. – 1.6.2006, Baden bei Wien, Vienna, Austria
 Proceedings of the 6th euspen International Conference (2006) S. 60-63, ISBN 0-9553082-0-8
- Mohaupt, M.; Eberhardt, R.; Damm, C.; Peschel, T.; Tünnermann, A.
Assembly of an Aperture Plate System for Projection Mask-Less Lithography (PML2)
 Proceedings International Conference on Micro- and Nano-Engineering, 19. – 22.9.2005, Vienna, Austria, p. 60-63, ISBN 0-9553082-0-8
- Munkelt, C.
Local correlation for improving 3D-point-cloud fusion
 Internationales Dagstuhl Seminar "Sensor Data and Information Fusion in Computer Vision and Medicine", 1.8.2006, Dagstuhl, Germany
- Munkelt, C.; Kühmstedt, P.; Denzler, J.
Incorporation of a-priori information in planning the best view
 11th International Fall Workshop "Vision, Modeling and Visualization", 22. – 24.11.2006, Aachen, Germany
 Vision, Modeling and Visualization 2006 Proceedings November 22-24, 2006 Aachen, Germany, p.261-268, ISBN 3-89838-081-5
- Munkelt, C.; Kühmstedt, P.; Denzler, J.
Incorporation of a-priori information in planning the best view
 ISPRS Commission V Symposium: Image Engineering and vision metrology, 25. – 27.9.2006, Dresden, Germany
 Proceedings of ISPRS Commission V Symposium: Image engineering and vision metrology, 25. – 27.9.2006, Dresden, Germany, ISSN 1682-1750
- Munzert, P.; Schulz, U.; Kaiser, N.
Method for the vacuum deposition of optical coatings on polymethyl-methacrylate
 9th International Symposium on Process Systems Engineering, 9. – 13.7.2006, Garmisch-Partenkirchen, Germany
- Notni, G.
Konfokale Verfahren – Triangulationsverfahren – Lichtschnitt- und Streifenprojektions-techniken
 Fraunhoferseminar mit Praktikum »Optische 3D-Messtechnik für die Qualitätssicherung in der Produktion«, 16. – 17.11.2006, Magdeburg, Deutschland
 Konferenzband Fraunhoferseminar mit Praktikum »Optische 3D-Messtechnik für die Qualitätssicherung in der Produktion«, 16. – 17.11.2006, Magdeburg, Deutschland
- Notni, G.; Duparré, A.
Shape and nanostructure analysis of ultra precision machined surfaces
 OptoNet Workshop: Ultrapräzisionsbearbeitung von Asphären, Freiformflächen und Mikrostrukturen, 16. – 17.5.2006, Jena, Germany
- Notni, G.; Kühmstedt, P.
Shape and surface structure analysis of complex rapid manufacturing parts
 Euro- μ Rapid 2006, 27. – 28.11.2006, Frankfurt/M., Germany
- Notni, G.; Kühmstedt, P.; Brakhage, P.; Geller, R.; Reitemeier, B.
Optical 3D-Scanning and Rapid Prototyping for oral and maxillofacial surgery
 Internationales Bernd-Spiess-Symposium, 16. – 18.6.2006, Basel, Switzerland
- Peschel, T.; Limpert, J.; Streppel, U.; Wirth, C.; Eberhardt, R.; Tünnermann, A.
Opto- and Thermo-Mechanical Design of High Power Fiber Lasers
 2. Internationaler Faserlaser-Workshop, 5. – 6.7.2006, Dresden, Germany
- Petschulat, J.; Rockstuhl, C.; Leitel, R.; Stenzel, O.; Pertsch, T.; Tünnermann, A.
Plasmon resonances in disordered metal-PMMA structures
 EOS Topical meeting "Molecular Plasmonic Devices" 27. – 29.4.2006, Engelberg, Switzerland
- Pradarutti, B.; Matthäus, G.; Brückner, C.; Riehemann, S.; Notni, G.; Cimalla, V.; Lebedev, V.; Ambacher, O.; Tünnermann, A.
THz emission from InN surfaces
 IMN (Institut für Mikro- und Nanotechnologien) 2005 Jahrbuch TU Ilmenau
- Pradarutti, B.; Matthäus, G.; Brückner, C.; Limpert, J.; Riehemann, S.; Notni, G.; Nolte, S.; Tünnermann, A.
THz Generation, Detection, and Application with ultrashortpuls fiber laser amplifiers at 1060 nm
 VDI: 2. Workshop Terahertz Technology, 1. – 2.3.2006, Kaiserslautern, Germany
- Pradarutti, B.; Matthäus, G.; Brückner, C.; Riehemann, S.; Notni, G.; Cimalla, V.; Lebedev, V.; Ambacher, O.; Tünnermann, A.
InN as THz Emitter excited at 1060 nm and 800 nm
 Photonics Europe 2006, 3. – 7.4.2006, Strasbourg, France
 SPIE Proceedings Vol. 6194 (2006) Paper 61940I, ISBN 0-8194-6250-0
- Pradarutti, B.; Matthäus, G.; Brückner, C.; Riehemann, S.; Notni, G.; Nolte, S.; Tünnermann, A.
Electro optical sampling of ultra short THz pulses by fs-laser pulses at 530 nm and 1060 nm
 Joint 31st Int. Conference on Infrared and Millimeter Waves and 14th International Conference on Terahertz Electronics (IRMMW & THz), 18. – 22.9.2006, Shanghai, China
- Riehemann, S.; Grossmann, C.; Notni, G.
Microdisplay based optical system for medical applications
 Campus Workshop, 15.12.2006, Jena, Germany
- Riehemann, S.; Lippman, U.; Palme, M.; Vangdal, V.; Thomson, T.; Notni, G.
Ocular OLED-HMD with simultaneous eye-tracking
 SID International Symposium, Seminar and Exhibition, 4. – 9.6.2006, San Francisco, USA
 Proceedings of the SID International Symposium, Seminar and Exhibition, 4. – 9.6.2006, San Francisco, USA p. 163-165, ISSN 0006-966X
- Riehemann, S.; Lippmann, U.; Palme, M.; Kühmstedt, P.; Notni, G.
Miniaturized projection systems with OLED microdisplays
 SPIES Newsroom
- Riehemann, S.; Palme, M.
Modelling the aging accommodating eye – Ideas on solving the lens paradoxon based on clinical hints
 3rd European Meeting in Physiological Optics, 7. – 9.9.2006, London, Great Britain
- Risse, S.
Doppelsphärische Luftlager aus Glas und Glaskeramik
 Reihe: Luftlagerungen – Grundlagen und Anwendungen
 Veranstaltung Nr. 31771/68.699 Technische Akademie Esslingen, 13. – 14.2.2006, Esslingen, Deutschland
- Risse, S.; Giggel, V.
NiP plated optics for space application
 OptoNet Workshop: Ultra precision manufacturing of Aspheres, Freeforms and Microstructures 16. – 17.5.2006, Jena, Germany
- Röser, F.; Klingebiel, S.; Liem, A.; Schreiber, T.; Höfer, S.; Limpert, J.; Peschel, T.; Eberhardt, R.; Tünnermann, A.
Spectral beam combining of fiber lasers
 SPIE Proceedings Vol. 6102 (2006) Paper 61020T, ISBN 0-8194-6144-X
- Röser, F.; Rothhardt, J.; Schreiber, T.; Limpert, J.; Tünnermann, A.
50W, 50fs pulses from a fiber laser system using nonlinear fiber compression
 SPIE Proceedings Vol. 6102 (2006) Paper 610210, ISBN 0-8194-6144-X

- Schreiber, P.; Kudaev, S.
Miniaturized LED Light Sources
Optatec 2006, 20.-23.6.2006, Frankfurt (M.), Germany
- Schreiber, P.; Kudaev, S.; Dannberg, P.; Gebhardt, A.
Microoptics for homogeneous LED illumination
Photonics Europe 2006, 3. – 7.4.2006, Strasbourg, France
SPIE Proceedings Vol. 6196 (2006) p. 61690P, ISBN 0-8194-6309-4
- Schreiber, T.; Ortac, B.; Nielsen, C.K.; Limpert, J.; Tünnermann, A.
Compact μ J-level all-polarization maintaining femtosecond fiber source
SPIE Proceedings Vol. 6102 (2006), ISBN 0-8194-6144-X
- Schreiber, T.; Schultz, H.; Röser, F.; Schmidt, O.; Limpert, J.; Iliw, R.; Jacobsen, C.; Hansen, K.P.; Broeng, J.; Tünnermann, A.
Design and high power operation of a stress-induced single-polarization single-transverse mode LMA Yb-doped photonic crystal fiber
SPIE Proceedings Vol. 6102 (2006) Paper 61020C, ISBN 0-8194-6144-X
- Schröder, S.; Flemming, M.; Duparré, A.
Nanostructure assessment of functional surfaces and coatings
6th International Conference on Coatings on Glass and Plastics, 18. – 22.6.2006, Dresden, Germany
Proceedings of the 6th International Conference on Coatings on Glass and Plastics, 18. – 22.6.2006, Dresden, Germany, p. 261-265
- Schröder, S.; Gliech, S.; Duparré, A.
Scattering analysis of optical components in the DUV
8th International Workshop on Laser Beam and Optics Characterization, 21. – 26.1.2006, San Jose, USA
SPIE Proceedings Vol. 6101 (2006) Paper 61011H-10, ISBN 0-8194-6143-1
- Schröder, S.; Kamprath, M.; Duparré, A.
Characterization on thin films and bulk materials for DUV optical components
Boulder Damage Symposium XXXVIII Annual Symposium on Optical Materials for High Power Lasers, 25. – 27.9.2006, Boulder, USA
- Schulz, U.; Lau, K.; Kaiser, N.
Test procedures for coated plastics
Proceedings of 7th Symposium of European Vacuum Coaters, 2. – 4.10.2006, Anzio, Italy p. 181-184
- Sidorin, Y.; Wächter, C. Chairs/Editors
Integrated Optics: Devices, Materials, and Technologies X
SPIE Proceedings Vol. 6123, (2006), ISBN 0-8194-6165-2
- Szameit, A.; Blömer, D.; Burghoff, J.; Pertsch, T.; Nolte, S.; Tünnermann, A.
Controlled nonlinearity in femtosecond laser written waveguides
SPIE Proceedings Vol. 6108 (2006) Paper 61080V, ISBN 0-8194-6150-4
- Szameit, A.; Burghoff, J.; Pertsch, T.; Nolte, S.; Tünnermann, A.
Discrete spatial soliton formation in a two-dimensional fs laser written waveguide array in fused silica
SPIE Proceedings Vol. 6108 (2006) Paper 61080V, ISBN 0-8194-6150-4
- Tikhonravov, A.V.; Trubetskov, M.K.; Amotchkina, T.V.; Kokarev, M.A.; Kaiser, N.; Stenzel, O.; Wilbrandt, S.; Gäbler, D.
New Optimization Algorithm for the synthesis of rugate optical coatings
SPIE Proceedings Vol. 5963 (2005) p. 18-26, ISBN 0-8194-5981-X
- Tünnermann, A.
Femtosecond fiber lasers and amplifiers – status and perspectives
Proceedings of Sensor +Test 2006, 30.5. – 1.6.2006, Nürnberg, Germany, p. 9-14
- Wächter, C.
Integrated Optics Design: Software tools and diversified applications
Frontiers in Planar Lightwave Circuit Technology: Design, Simulation, and Fabrication, Series: NATO Science Series II: Mathematics, Physics and Chemistry, Vol. 216 (2006) p. 245-280, ISBN 1-402-04164-0
- Wilbrandt, S.; Stenzel, O.; Gäbler, D.; Kaiser, N.
Re-engineering of inhomogeneous coatings based on in-situ optical broadband monitoring data
SPIE Proceedings Vol. 5963 (2005) p. 124-135, ISBN 0-8194-5981-X
- Wippermann, F.; Duparré, J.; Dannberg, P.; Bräuer, A.
Improved integration and performance of multi-channel micro optical systems by chirped microlens arrays
EOS Annual Meeting 2006, 16. – 19.10.2006, Paris, France
- Wippermann, F.
Insect Inspired Imaging
Optatec, 20. – 23.6.2006, Frankfurt (M), Germany
- Wippermann, F.; Duparré, J.; Schreiber, P.
Applications of chirped micro-lens arrays for aberration compensation and improved system integration
Optics & Photonics, 13. – 17.8.2006, San Diego, California, USA
SPIE Proceedings Vol. 6289 (2006) Paper 628915, ISBN 0-8194-6368-X
- Wippermann, F.; Radtke, D.; Zeitner, U.D.; Duparré, J.; Tünnermann, A.; Amberg, M.; Sinzinger, S.; Reinhardt, C.; Ovsianikov, A.; Chichkov, B.N.
Fabrication technologies for chirped refractive microlens arrays
Optics & Photonics 2006, 13. – 17.8.2006, San Diego, California, USA
SPIE Proceedings Vol. 6288 (2006) Paper 628800, ISBN 0-8194-6367-1
- Wippermann, F.; Schreiber, P.; Bräuer, A.; Berge, B.
Mechanically assisted liquid lens zoom system for mobile phone cameras
Optics & Photonics 2006, 13. – 17.8.2006, San Diego, California, USA
SPIE Proceedings Vol. 6289 (2006) Paper 62890T, ISBN 0-8194-6368-X
- Yulin, S.; Feigl, T.; Benoit, N.; Kaiser, N.
Enhanced multilayer mirrors for EUV spectral region
XII Conference on Laser Optics, 26. – 30.6.2006, St. Petersburg, Russia
- Yulin, S.; Feigl, T.; Benoit, N.; Kaiser, N.
EUV/soft x-ray multilayer optics
SPIE Proceedings Vol. 5645 (2005) p. 289-298, ISBN 0-8194-5600-4
- Yulin, S.; Benoit, N.; Feigl, T.; Kaiser, N.
Interface-engineered multilayer mirrors
Microlithography 2006, 21. – 23.2.2006, San Jose, CA., USA
- Yulin, S.; Feigl, T.; Benoit, N.; Kaiser, N.
Interface-engineered EUV multilayer mirrors
The 8th International Conference on the Physics of X-Ray Multilayer Structures, 12. – 16.3.2006, Sapporo, Japan
- Yulin, S.; Benoit, N.; Feigl, T.; Kaiser, N.; Dollar, F.; Gullikson, E.; Hill, S.; Lucatorto, T.; Fang M.; Chandhok, M.
Mo/Si multilayers capped by TiO₂
International Symposium on Extreme Ultraviolet Lithography, 15. – 18.10.2006, Barcelona, Spain
- Zeitner, U.D.; Feigl, T.; Benkenstein, T.; Damm, C.; Peschel, T.; Kaiser, N.; Tünnermann, A.
Schwarzschild-Objective-based EUV Micro-Exposure-Tool
SPIE Proceedings Vol. 6151 (2006) p. 30-38, ISBN 0-8194-6194-6