

Publikationen

Werner Bogner, Johannes Jakob, R. Weigel, Franz Xaver Röhr, Stefan Zorn (2019): Bare die connections via aerosol jet technology for millimeter wave applications. In: International Journal of Microwave and Wireless Technologies, vol. 11, no. Special Issue 5-6 (EuMW 2018 Special Issue (Part I)) [June], pp. 441-446. DOI: 10.1017/S1759078719000114.

Werner Bogner, Franz Xaver Röhr, Felix Sepaintner, Stefan Zorn, Andreas Scharl (2019): Simulation and Manufacturing of Low Loss PCB Structures with Additional Electromagnetic Field in Air. In: Proceedings of the IEEE MTT-S International Microwave Workshop Series on Advanced Materials and Processes (IMWS-AMP) [July 16-18, 2019; Bochum].

M. Pohl, R. Boerret, Rolf Rascher, U. Bielke, Olga Kukso (2019): MSF-error prevention strategies for the grinding process. In: Proceedings of SPIE 11171 (Sixth European Seminar on Precision Optics Manufacturing, 1117101 [April 9th-10th 2019, Teisnach]), Bellingham, WA, USA. DOI: 10.1117/12.2526581.

Gerald Fütterer, Simon Wittl, Lucas Bauer, Michael Wagner (2019): Alignment and thermal drift aspects of a four-tilted-mirror student project telescope. In: Proceedings of SPIE 11171 (Sixth European Seminar on Precision Optics Manufacturing, 1117101 [April 9th-10th 2019, Teisnach]), Bellingham, WA, USA. DOI: 10.1117/12.2530076.

Gerald Fütterer (2019): Wave front sensing for metrology by using optical filter. In: Proceedings of SPIE 11171 (Sixth European Seminar on Precision Optics Manufacturing, 1117101 [April 9th-10th 2019, Teisnach]), Bellingham, WA, USA. DOI: 10.1117/12.2530013.

Jakob Reitberger, Rolf Rascher, Johannes Liebl, Sebastian Sitzberger (2019): Zero-point clamping systems in optical production. In: Proceedings of SPIE 11171 (Sixth European Seminar on Precision Optics Manufacturing, 1117101 [April 9th-10th 2019, Teisnach]), Bellingham, WA, USA. DOI: 10.1117/12.2528774.

Christine Wünsche, S. Höfer, Jessica Stelzl (2019): Processing of a new nonlinear optical crystal for continuous wave UV-laser applications. In: Proceedings of SPIE 11171 (Sixth European Seminar on Precision Optics Manufacturing, 1117101 [April 9th-10th 2019, Teisnach]), Bellingham, WA, USA. DOI: 10.1117/12.2528140.

Christine Wünsche, S. Herr, S. Mechold, Emilio Zambrano (2019): Cleaning effects in optical layers: error characteristics and analysis methods. In: Proceedings of SPIE 11171 (Sixth European Seminar on Precision Optics Manufacturing, 1117101 [April 9th-10th 2019, Teisnach]), Bellingham, WA, USA. DOI: 10.1117/12.2527974.

Rolf Rascher, Johannes Liebl, S. Killinger (2019): Mid-spatial frequency errors in feed direction occurring in ADAPT polishing. In: Proceedings of SPIE 11171 (Sixth European Seminar on Precision Optics Manufacturing, 1117101 [April 9th-10th 2019, Teisnach]), Bellingham, WA, USA. DOI: 10.1117/12.2528114.

Werner Bogner, Johannes Jakob, R. Sammer, Franz Xaver Röhr, Stefan Zorn (2019): WR12 to planar transmission line transition on organic substrate. In: Proceedings of the 49th European Microwave Conference (EuMC)/European Microwave Week (EuMW) 2019 (September 29-October 4, 2019; Paris, France).

O. Föhnle, M. Doetz, Christian Vogt, O. Dambon, Rolf Rascher, E. Langenbach (2018): Enlarging process window of ductile mode machining of WC molds. In: Proceedings of EOSAM 2018 (European Optical Society Biennial Meeting; October 2018; Delft, The Netherlands): Optical System Design, Tolerancing, and Fabrication.

O. Föhnle, Christian Vogt, Rolf Rascher, Christian J. Trum, Sebastian Sitzberger (2018): First experiences with Filled-Up-Microscopy (FUM) to evaluate the depth of sub-surface damages on ground surfaces. In: Proceedings of EOSAM 2018 (European Optical Society Biennial Meeting; October 2018; Delft, The Netherlands): Optical System Design, Tolerancing, and Fabrication.

O. Föhnle, M. Doetz, Christian Vogt, Rolf Rascher (2018): Standardized evaluation of grinding tools for brittle and ductile mode grinding. Invited Paper. In: Proceedings of EOSAM 2018 (European Optical Society Biennial Meeting; October 2018; Delft, The Netherlands): Optical System Design, Tolerancing, and Fabrication.

O. Föhnle, Christian Vogt, Rolf Rascher, E. Langenbach (2018): In situ monitoring of laser polishing. In: DGaO Proceedings (119. Jahrestagung in Aalen, 22.-26.05.2018).

Rolf Rascher, Christian J. Trum, M. Zäh (2018): Effizientes chemisch-mechanisches Polieren (CMP). In: Werkstattstechnik online-wt-online, no. 3, pp. 174-179.

Rolf Rascher, Christian J. Trum, Sebastian Sitzberger (2018): Improved performance of CMP processes through targeted adjustment of polishing slurry and polish pad. In: Proceedings of SPIE Optical Engineering + Applications (19-23 August, 2018; Optical Manufacturing and Testing XII; San Diego, CA, USA), San Diego, United States, vol. 10742. DOI: 10.1117/12.2321031.

Gerald Fütterer (2018): Display Device, holographic head-mounted display.

Gerald Fütterer, W. Kraiss, A. Engelbrecht, A. Sperl, S. Killinger, M. Werni (2018): Abschattungsfreies Multi-Schiefspiegel-Teleskop als studentisches Entwicklungsprojekt. In: DGaO Proceedings zur 119. Jahrestagung in Aalen (22.-26.05.2018) 2018.

Gerald Fütterer, W. Kraiss, A. Engelbrecht, A. Sperl, S. Killinger, M. Werni (2018): Developing a four-tilted-mirror telescope as a student project. In: Optics Education and Outreach V, vol. volume 10741. DOI: 10.1117/12.2320542.

Gerald Fütterer (2018): CSLM illumination for 1D and 2D encoded holographic 3D displays. In: Illumination Optics V; SPIE Illumination Optics Conference; SPIE Optical Systems Design (OSD) [May 14-16, 2018; Frankfurt, Germany], vol. 10693. DOI: 10.1117/12.2312745.

Gerald Fütterer (2018): Optimization of the complex coherence function for diffraction-based wavefront transformations. In: Unconventional Optical Imaging. DOI: 10.1117/12.2307245.

O. Föhnle, Christian Vogt, Rolf Rascher (2018): Load controlled process window analysis of feed controlled CNC grinding. In: PROCEEDINGS VOLUME 10692 SPIE OPTICAL SYSTEMS DESIGN, 14-17 MAY 2018 Optical Fabrication, Testing, and Metrology VI, Frankfurt, Germany. DOI: 10.1117/12.2315336.

O. Föhnle, M. Doetz, Christian Vogt, O. Dambon, F. Klocke, Rolf Rascher (2018): Ductile grinding of tungsten carbide applying standard CNC machines: a process analysis. In: Proceedings of SPIE 10692: SPIE Optical Systems Design /Optical Fabrication, Testing, and Metrology VI (14.-17.05.2018; Frankfurt/Main). DOI: 10.1117/12.2315338.

O. Föhnle, Christian Vogt, Rolf Rascher, Christian J. Trum, Sebastian Sitzberger (2018): Filled-Up-Microscopy (FUM): a non-destructive method for approximating the depth of sub-surface damage on ground surfaces. In: Proceedings of SPIE 10829 (Fifth European Seminar on Precision Optics Manufacturing [April 10-11, 2018; Teisnach]). DOI: 10.1117/12.2318576.

O. Föhnle, M. Doetz, Christian Vogt, O. Dambon, F. Klocke, Rolf Rascher (2018): Ductile mode single point diamond turning (SPDT) of binderless tungsten carbide molds. In: Proceedings of SPIE Optical Engineering + Applications (19-23 August, 2018; Optical Manufacturing and Testing XII; San Diego, CA, USA), San Diego, United States, vol. 10742. DOI: 10.1117/12.2323244.

O. Föhnle, Christian Vogt, Rolf Rascher, Olaf Dambon, Fritz Klocke, Marius Doetz (2018): From turning to grinding: ductile machining with gPVA. In: Proceedings of SPIE Optical Engineering + Applications (19-23 August, 2018; Optical Manufacturing and Testing XII; San Diego, CA, USA), San Diego, United States, vol. 10742. DOI: 10.1117/12.2323246.

O. Föhnle, M. Doetz, Christian Vogt, O. Dambon, F. Klocke, Rolf Rascher (2018): Ductile grinding of tungsten carbide molds applying standard CNC machines. In: Proceedings of SPIE Optical Engineering + Applications (19-23 August, 2018; Optical Manufacturing and Testing XII; San Diego, CA, USA), San Diego, United States, vol. 10742. DOI: 10.1117/12.2323245.



O. Föhnle, Christian Vogt, Rolf Rascher, DaeWook Kim (2018): Closed-loop next generation laser polishing. In: Proceedings of SPIE 10829 (Fifth European Seminar on Precision Optics Manufacturing [April 10-11, 2018; Teisnach]). DOI: 10.1117/12.2318749.

O. Föhnle, M. Doetz, Christian Vogt (2018): SPDT and standard CNC-grinding of tungsten carbide molds for precision glass molding: an experimental process analysis. In: Proceedings of SPIE 10829 (Fifth European Seminar on Precision Optics Manufacturing [April 10-11, 2018; Teisnach]). DOI: 10.1117/12.2318710.

O. Föhnle, Christian Vogt, Rolf Rascher (2018): gPVA: a system for the classification of grinding tools. In: Proceedings of SPIE 10829 (Fifth European Seminar on Precision Optics Manufacturing [April 10-11, 2018; Teisnach]). DOI: 10.1117/12.2318695.

Christian Vogt (2018): Standardized evaluation of grinding tools for brittle and ductile mode grinding. In: European Optical Society Biennial Meeting (EOSAM) 2018, Delft, Niederlande.

O. Föhnle, Christian Vogt, Rolf Rascher, Eckart Langenbach (2018): In situ laser monitoring of laser polishing. In: 119. Jahrestagung der Deutschen Gesellschaft für angewandte Optik (DGaO), Technische Hochschule Aalen.

G. Berger, I. Widdershoven, M. Schulz, R. Bergmann, D. Ramm, A. Beutler, J. Asfour, G. Schneider, T. Blümel, C. Elster, R. Meeß, H. Klawitter, R. Schachtschneider, M. Sandner, I. Fortmeier, K. Kubo, F. Löffler, Johannes Liebl, M. Stavridis, M. Wendel, C. Pruss (2018): Interlaboratory comparison measurements of aspheres. In: Measurement Science and Technology, vol. 29, no. 5. DOI: 10.1088/1361-6501/aaae96.

Gerald Fütterer, Rolf Rascher, C. Pruß, H. Harsch, W. Osten, Alexander Haberl, Johannes Liebl (2018): Model based error separation of power spectral density artefacts in wavefront measurement. In: Proceedings of SPIE 10749 (SPIE Optical Engineering + Applications Conference on Interferometry XIX [August 19-23, 2018; San Diego, CA, USA]). DOI: 10.1117/12.2321106.

Werner Bogner, Johannes Jakob, R. Weigel, Franz Xaver Röhr, Stefan Zorn (2018): Bare Die Connections via Aerosol Jet Technology for Millimeter Wave Applications. In: Proceedings of the 48th European Microwave Conference (EuMC)/European Microwave Week (EuMW) 2018 (September 24-28, 2018; Madrid, Spain).

Gerald Fütterer, Alexander Haberl, Johannes Liebl (2018): Contribution of the phase transfer function of extended measurement cavities to mid spatial frequencies and the overall error budget. In: Proceedings of SPIE 10829 (Fifth European Seminar on Precision Optics Manufacturing [April 10-11, 2018; Teisnach]). DOI: 10.1117/12.2318711.

Rolf Rascher, Christian Schopf, Johannes Liebl (2018): DefGO. In: Proceedings of SPIE 10829 (Fifth European Seminar on Precision Optics Manufacturing [April 10-11, 2018; Teisnach]). DOI: 10.1117/12.2318704.

M. Pohl, R. Boerret, Rolf Rascher, Olga Kukso (2018): On the metrology of the MSF errors. In: Proceedings of SPIE 10829 (Fifth European Seminar on Precision Optics Manufacturing [April 10-11, 2018; Teisnach]). DOI: 10.1117/12.2318675.

Rolf Rascher, M. Zaeh, Christian J. Trum, Sebastian Sitzberger (2018): Workpiece self-weight in precision optics manufacturing: compensation of workpiece deformations by a fluid bearing. In: Proceedings of SPIE 10829 (Fifth European Seminar on Precision Optics Manufacturing [April 10-11, 2018; Teisnach]). DOI: 10.1117/12.2318577.

Rolf Rascher, Alexander Haberl, Johannes Liebl (2018): ABC-polishing. In: Proceedings of SPIE 10829 (Fifth European Seminar on Precision Optics Manufacturing [April 10-11, 2018; Teisnach]). DOI: 10.1117/12.2318549.

M. Pohl, R. Boerret, Rolf Rascher, Olga Kukso (2018): Simulation of MSF errors using Fourier transform. In: Proceedings of SPIE 10829 (Fifth European Seminar on Precision Optics Manufacturing [April 10-11, 2018; Teisnach]). DOI: 10.1117/12.2317484.

S. Reichelt, Gerald Fütterer, N. Leister, R. Häußler, B. Kroll (2017): Combined light modulation device for tracking users.

Werner Bogner, Johannes Jakob, R. Sammer, Franz Xaver Röhr, Stefan Zorn: WR12 to planar transmission line transition on organic substrate. Invited Talk. In: 49th European Microwave Conference (EuMC), Paris, Frankreich.



Werner Bogner, Franz Xaver Röhl, Felix Sepaintner, Stefan Zorn, Andreas Scharl: Simulation and Manufacturing of Low Loss PCB Structures with Additional Electromagnetic Field in Air. Invited Talk. In: IEEE MTT-S International Microwave Workshop Series on Advanced Materials and Processes (IMWS-AMP), Bochum.

Michael Benisch: Vernetzte Sensorik für das Prozessverständnis in der Glasbearbeitung. Posterpräsentation. In: 6. Tag der Forschung, Deggendorf.

Gerald Fütterer: 4x-Schiefspiegel-Teleskop-Projekt. Posterpräsentation. In: 6. Tag der Forschung, Deggendorf.

Andreas Scharl: Optimierung von Hochfrequenzstrukturen auf organischen Leiterplatten. Vortrag und Posterpräsentation. In: 6. Tag der Forschung, Deggendorf.

Werner Bogner, Johannes Jakob, Siegfried Hildebrand, Franz Xaver Röhl, Stefan Zorn: Projekt NePUMuk (Neue digitale Produktions- und Mikrostrukturierungstechnologien für Anwendungen bis 80 GHz). Projektbericht.

Siegfried Hildebrand: Projekt NePUMuk (Neue digitale Produktions- und Mikrostrukturierungstechnologien für Anwendungen bis 80 GHz). Aktuelle Softwareansätze. In: 5. Tag der Forschung, Deggendorf.

J.-M. Asfour, Johannes Liebl, F. Weidner: CGH-Based Interferometer Measurements of Round Robin Asphere. In: 10th High Level Expert Meeting (HLEM) Asphere Metrology on Joint Investigations, Braunschweig.

Rolf Rascher: Grinding and polishing of glass - Basis for a perfect coating. In: 12th International Conference on Coatings on Glass and Plastics (Joint session of DGG-Glasforum and the ICCG): The Glass Surface - The Basis for Innovative Coatings, Würzburg.

O. Föhnle, Christian Vogt, Rolf Rascher, E. Langenbach: Closed-loop laser polishing of glass. In: LaP 2018 - 3rd Conference on Laser Polishing, Aachen.

Gerald Fütterer, W. Kraiss, A. Engelbrecht, A. Sperl, S. Killinger, M. Werni: Developing a four-tilted-mirror telescope as a student project. In: SPIE Optics Education and Outreach V, San Diego, CA, USA.

Gerald Fütterer, W. Kraiss, A. Engelbrecht, A. Sperl, S. Killinger, M. Werni: Abschattungsfreies Multi-Schiefspiegel-Teleskop als studentisches Entwicklungsprojekt. In: 119. Jahrestagung der Deutschen Gesellschaft für angewandte Optik (DGaO), Aalen.

Gerald Fütterer: Optimization of the complex coherence function for diffraction-based wavefront transformations. In: SPIE Photonics Europe 2018, Strasbourg, Frankreich.

Gerald Fütterer, Rolf Rascher, C. Pruß, H. Harsch, W. Osten, Alexander Haberl, Johannes Liebl: Model based error separation of power spectral density artefacts in wavefront measurement. In: SPIE Optical Engineering + Applications Conference on Interferometry XIX, San Diego, CA, USA.

Gerald Fütterer, Alexander Haberl, Johannes Liebl: Contribution of the phase transfer function of extended measurement cavities to mid spatial frequencies and the overall error budget. In: Fifth European Seminar on Precision Optics Manufacturing, Teisnach.

Rolf Rascher, Christian J. Trum, Sebastian Sitzberger: Improved performance of CMP processes through targeted adjustment of polishing slurry and polish pad. In: SPIE Optical Engineering + Applications 2018, San Diego, CA, USA.

Christian J. Trum: The critical success factor slurry in the polishing process. Workshop "Glas?Klar! Clear as Glass". In: 92. Glastechnische Tagung 2018 der HVG-DGG, Bayreuth.

Gerald Fütterer: CSLM illumination for 1D and 2D encoded holographic 3D displays. In: Illumination Optics V, Symposium: EOD18 SPIE Optical Systems Design, Frankfurt am Main.

Christian Vogt, Rolf Rascher: grinding Process Validation Approach (gPVA). Posterpräsentation. In: 5. Tag der Forschung, Deggendorf.

Rolf Rascher, M. Zaeh, Christian J. Trum, Sebastian Sitzberger: Workpiece self-weight induced deformation in precision optics manufacturing. Posterpräsentation. In: 5. Tag der Forschung, Deggendorf.



Rolf Rascher, Christian Schopf, Florian Schneider: ArenA - Foi: Erprobung des ADAPT-Polierwerkzeugs. Posterpräsentation. In: 5. Tag der Forschung, Deggendorf.

