

Publikationen

- (2020): Convergence of surface energy calculations for various methods: (001), (012), (100) hematite and the applicability of the standard approach. In: Journal of Physics: Condensed Matter, vol. 32, no. 18. DOI: 10.1088/1361-648X/ab6f88.
- (2019): Analysis of residual errors during computer controlled polishing. In: EOS Optical Technologies: Conference on Manufacturing, Tolerancing and Testing of Optical Systems (MOS) – Session 7: Plenary Session, München.
- (2019): Ultraschallunterstützte Zerspanung von Advanced Materials. In: 3. Wissenschaftliches Forum zur ULTRASONIC-Bearbeitung, Jena.
- (2019): Clamping system for optical components for adaptation in optical production. In: 10th HLEM 2019 - High Level Expert Meeting Asphere Metrology on Joint Investigations, Braunschweig.
- (2019): Optical and Mechanical Properties of Highly Transparent Glass-Flake Composites. In: Journal of Composites Science, vol. 3, no. 101, pp. 1-17. DOI: 10.3390/jcs3040101.
- (2019): Aluminum Coated Micro Glass Spheres to Increase the Infrared Reflectance. In: Coatings (Special Issue "Current Research in Thin Film Deposition: Applications, Theory, Processing, and Characterisation"), vol. 9, no. 3. DOI: 10.3390/coatings9030187.
- (2019): Heißprägen von Glassubstraten als Basis kapazitiver Ultraschall-Sensorik. In: 2. Technologietag Angewandte Sensorik (TAS), Coburg.
- (2019): The Usage of AI for Glass Process Optimization. In: Şişecam International Glass Conference, Istanbul, Türkei.
- (2019): Sensorik und Prozessoptimierung als Bausteine für nachhaltige Ressourcenschonung.
- (2019): Lean- & Prozessmanagement . In: BPM-Club Expertendialog: Integrierte Managementsysteme, Frankfurt am Main.
- (2019): Glass Industry 4.0. In: GlassTrend Seminar "Process automation & big data", München-Pullach.
- (2019): Die Milchflasche aus Glas: Relikt oder Trendsetter?. In: 3. Internationale Verpackungskonferenz, Kempten.
- (2019): Glass Technology Development by Artificial Intelligence?. In: 15th International Seminar on Furnace Design – Operation & Process Simulation, Velké Karlovice, Czech Republic.
- (2019): Glass Technology Development by Artificial Intelligence?. In: Tagung der Deutschen Glastechnischen Gesellschaft (DGG), Nürnberg.
- (2019): Das TAZ als Wegbereiter zur Vision Glasindustrie 4.0.
- (2019): Spatial light modulator device for the modulation of a wave field with complex information.
- (2019): Beam divergence and various collimators for holographic or stereoscopic displays.
- (2019): Patente:Praxiserfahrungen. In: Patentworkshop der Technischen Hochschule Deggendorf, Deggendorf.
- (2019): Wave front sensing for metrology by using optical filter. In: Sixth European Seminar on Precision Optics Manufacturing (POM19), Teisnach.
- (2019): 4-Schiefspiegel-Teleskop: Justage und Stabilitätsaspekte. In: Untertitel, Deggendorf.

- (2019): Four-Tilted-Mirror Telescope: Alignment and Stability Aspects. In: Forschungsbericht 2018/2019 der Technischen Hochschule Deggendorf, Deggendorf.
- (2019): Projekt NePUMuk (Neue digitale Produktions- und Mikrostrukturierungstechnologien für Anwendungen bis 80 GHz). Abschlussbericht.
- (2019): Semiconductor devices and methods for forming semiconductor devices.
- (2019): Sensorik mit 2D-Materialien. In: Technologietag Angewandte Sensorik, Coburg.
- (2019): Semiconductor device including a heat sink structure.
- (2019): Using A Digital Temperature Sensor To Measure The Temperature Development During A Polishing Process. In: Proceedings of the 2019 EOS Optical Technologies Conference.
- (2019): Method of manufacturing semiconductor devices by bonding a semiconductor disk on a base substrate, composite wafer and semiconductor device.
- (2019): Fahrzeugbeleuchtungsanordnung, Leuchtmitteltreiberschaltung und Verfahren zur Bereitstellung von Informationen zur Bestimmung eines Beleuchtungszustandes.
- (2019): Process for the formation of a graphene membrane component, graphene membrane component, microphone and Hall-effect sensor.
- (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.
- (2019): WR12 to planar transmission line transition on organic substrate. Invited Talk. In: 49th European Microwave Conference (EuMC), Paris, Frankreich.
- (2019): 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.
- (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]. DOI: 10.1109/IMWS-AMP.2019.8880079.
- (2019): Elektronisches Identifikationsdokument und Verfahren zur Herstellung eines elektronischen Identifikationsdokuments.
- (2019): Precision Glass Molding of Light Emitting Optics, Containing Phosphors Directly Embossed into Glass. In: 6th Conference on Manufacturing, Tolerancing and Testing of Optical Systems, München.
- (2019): Entwicklung einer wasserdichten LED Flächenleuchte mit direkt im Glas eingebrachtem Konvertermaterial. Poster. In: DGaO Proceedings zur 120. Jahrestagung (11.-15.06.2019; Darmstadt).
- (2019): Schichtstruktur und Verfahren zur Herstellung einer Schichtstruktur.
- (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.
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- (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.



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- (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.
- (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.
- (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.
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- (2019): DisConMelter: Entwicklung einer modularen Glasschmelzwanne als zentralen Baustein einer flexiblen Glasschmelztechnologie. Posterpräsentation. In: 6. Tag der Forschung, Deggendorf.
- (2019): Der achtbeinige Prüfstand (Oktopode): Reale Beanspruchungsszenarien im Labor. Posterpräsentation. In: 6. Tag der Forschung, Deggendorf.
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- (2019): DisConMelter - Entwicklung einer modularen Glasschmelzwanne. In: 6. Tag der Forschung, Deggendorf.
- (2019): Optimierung von Hochfrequenzstrukturen auf organischen Leiterplatten. Vortrag und Posterpräsentation. In: 6. Tag der Forschung, Deggendorf.
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- (2018): Distance sensor.
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(2018): Optimization of the complex coherence function for diffraction-based wavefront transformations. In: SPIE Photonics Europe 2018, Strasbourg, Frankreich.

(2018): 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.

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(2018): Process for the formation of a graphene membrane component, graphene membrane component, microphone and Hall-effect sensor.

(2018): Semiconductor device having a graphene layer, and method manufacturing thereof.

(2018): Sensor arrangement, battery cell and energy system.

(2018): Graphene gas sensor for measuring the concentration of carbon dioxide in gas environments.

(2018): Semiconductor device including a phase change material.

(2018): Method for processing a carrier and method for transferring a graphene layer.

(2018): Semiconductor package, smart card and method for producing a semiconductor package.

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- (2018): Workpiece self-weight induced deformation in precision optics manufacturing. Posterpräsentation. In: 5. Tag der Forschung, Deggendorf.
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