

PUBLIKATIONEN

PUBLICATIONS / PUBLICATIONS

h-index: 15

personal impact factor (2021): 20.5

Publikationen in referierten Fachzeitschriften

Publications in peer-reviewed journals / Articles avec comité de lecture

- 57 L. ten Bosch, B. Habedank, A. Candeo, A. Bassi, G. Valentini, C. Gerhard: Light Sheet Fluorescence Microscopy for the investigation of blood-sucking arthropods dyed via artificial membrane feeding, *Parasites & Vectors* **15** (2022) 52 (8pp)
- 56 A. Lopez Marquez, I. E. Gareis, F. J. Dias, C. Gerhard, M. F. Lezcano: Methods to characterize electrospun scaffold morphology: A critical review, *Polymers* **14** (2022) 3, 467
- 55 A. Lopez Marquez, I. E. Gareis, F. J. Dias, C. Gerhard, M. F. Lezcano: How fiber surface topography affects interactions between cells and electrospun scaffolds: A systematic review, *Polymers* **14** (2022) 1, 209
- 54 C. Gerhard: On the omnipresence and potential of plasma technology, *Applied Sciences* **11** (2021) 9707
- 53 R. Köhler, C. Gerhard: XPS analysis of metallic trace contaminations on fused silica surfaces induced by classical optics manufacturing, *Optical Materials Express* **11** (2021) 11, 3844-3853
- 52 M. Schmidt, P. Huke, C. Gerhard, K. Partes: In-line monitoring of laser cladding processes via atomic emission spectroscopy, *Materials* **14** (2021) 16, 4401
- 51 J. Neumann, S. Brückner, W. Viöl, C. Gerhard: Atmospheric pressure dielectric barrier discharge plasma enhanced optical contact bonding of coated glass surfaces, *Applied Sciences* **11** (2021) 15, 6755 (11pp)
- 50 C. Gerhard: On the history, presence, and future of optics manufacturing, *Micromachines* **12** (2021) 6, 675
- 49 H. Zhang, Z. Qu, H. Tang, X. Wang, R. Köhler, M. Yu, C. Gerhard, Y. Yin, M. Zhu, K. Zhang, O. Schmidt: On-chip integration of a covalent organic framework based catalyst into a miniaturized Zn-Air battery with high-energy-density, *ACS Energy Letters* **6** (2021) 2491-2498
- 48 J. Wang, Y. Cao, B. Jaquet, C. Gerhard, W. Li, X. Xia, J. Rauschendorfer, P. Vana, K. Zhang: Self-compounded nanocomposites: Toward multifunctional membranes with superior mechanical, gas/oil barrier, UV-shielding and photothermal conversion properties, *ACS Applied Materials & Interfaces* **13** (2021) 24, 28668-28678
- 47 B. Jaquet, D. Tasche, C. Gerhard: Alteration of the chemical composition of fused silica surfaces via combined hydrogenous plasma treatment and UV laser irradiation, *Journal of Non-Crystalline Solids: X* **9-10** (2021) 100060 (8pp)
- 46 N. Koulouris, D. Tasche, A. Scheglov, J. Mrotzek, C. Gerhard, W. Viöl: Detection of atmospheric pressure plasma-induced removal of fingerprints via analysis of histograms obtained by imaging ellipsometry, *Journal of Physics Communications* **5** (2021) 4, 045005 (10pp)
- 45 R. Köhler, D. Hellrung, D. Tasche, C. Gerhard: Quantification of carbonic contamination of fused silica surfaces at different stages of classical optics manufacturing, *Materials* **14** (2021) 7, 1620 (7pp)
- 44 A. Taleb, C. Shen, D. Mory, K. Cieřlik, S. Merk, M. R. Aziz, A. P. Caricato, C. Gerhard, F. Pelascini, J. Hermann: Echelle spectrometer calibration by means of laser plasma, *Spectrochimica Acta Part B* **178** (2021) 106144 (13pp)

- 43 C. Gerhard: Towards laser-based calibration-free quantification of trace elements, *Optics* **2** (2021) 1, 43-44
- 42 C. Gerhard, A. Taleb, F. Pelascini, J. Hermann: Quantification of surface contamination on optical glass via sensitivity-improved calibration-free laser-induced breakdown spectroscopy, *Applied Surface Science* **537** (2021) 147984 (7pp)
- 41 X. Wang, D. Xu, B. Jaquet, Y. Yang, J. Wang, H. Huang, Y. Chen, C. Gerhard, K. Zhang: Structural colors by synergistic birefringence and surface plasmon resonance, *ACS Nano* **14** (2020) 16832-16839
- 40 C. Gerhard, G. Mielke, D. Tasche: C₄F₈ plasma treatment for the modification of the focal length of liquid-based plano-convex lenses on different substrates, *Applied Physics A* **126** (2020) 769 (8pp)
- 39 J. Bauer, M. Gutke, F. Heinrich, M. Edling, V. Stoycheva, A. Kaltenbach, M. Burkhardt, M. Grünefeld, M. Gamp, C. Gerhard, P. Steglich, S. Steffen, M. Herzog., C. Dreyer, S. Schrader: A novel UV-transparent 2-component polyurethane resin for Chip-on-Board LED micro lenses, *Optical Materials Express* **10** (2020) 9, 2085-2099
- 38 D. Tasche, M. Weber, J. Mrotzek, C. Gerhard, S. Wieneke, W. Möbius, O. Höfft, W. Viöl: In-situ investigation of the formation kinematics of plasma-generated silver nanoparticles, *Nanomaterials* **10** (2020) 3, 555 (13pp)
- 37 C. Gerhard, E. Letien, T. Cressent, M. Hofmann: In-line monitoring of hydrogenous plasma-induced defect formation within fused silica via plasma emission spectroscopy, *Applied Physics A* **126** (2020) 165 (7pp)
- 36 C. Gerhard, G. Mielke, S. Brückner, O. Wermann: Improving the adhesiveness of cemented glass components by DBD plasma pre-treatment at atmospheric pressure, *Applied Sciences* **9** (2019) 24, 5511 (10pp)
- 35 C. Gerhard, M. Stappenbeck: Impact of the polishing suspension concentration on laser damage of classically-manufactured and plasma post-processed zinc crown glass surfaces, *Applied Sciences* **8** (2018) 9, 1556 (15pp)
- 34 C. Gerhard, T. Gimpel, D. Tasche, J. Koch, S. Brückner, G. Flachenecker, S. Wieneke, W. Schade, W. Viöl: Atmospheric pressure plasma-assisted femtosecond laser engraving of aluminium, *Journal of Physics D* **51** (2018) 175201 (8pp)
- 33 J. Hermann, D. Grojo, E. Axente, C. Gerhard, M. Burger, V. Craciun: Ideal radiation source for plasma spectroscopy generated by laser ablation, *Physical Review E* **96** (2017) 6, 53210 (6pp)
- 32 C. Gerhard, D. Tasche, O. Uteza, J. Hermann: Investigation of nonuniform surface properties of classically-manufactured fused silica windows, *Applied Optics* **56** (2017) 26, 7427-7434
- 31 S. Grottker, W. Viöl, C. Gerhard: Impact of assisting atmospheric pressure plasma on the formation of micro- and nanoparticles during picosecond-laser ablation of titanium, *Applied Optics* **56** (2017) 12, 3365-3371
- 30 L. M. Wallenhorst, L. Loewenthal, G. Avramidis, C. Gerhard, H. Militz, G. Ohms, W. Viöl: Topographic, optical and chemical properties of zinc particle coatings deposited by means of atmospheric pressure plasma, *Applied Surface Science* **410** (2017) 485-493
- 29 C. Gerhard, D. Tasche, N. Munser, H. Dyck: Increase in nanosecond laser-induced damage threshold of sapphire windows by means of direct dielectric barrier discharge plasma treatment, *Optics Letters* **42** (2017) 1, 49-52
- 28 A. Gredner, C. Janker, C. Gerhard, S. Wieneke: Atmospheric pressure plasma activation of free-form surfaces, *Journal of Magnetohydrodynamics, Plasma, and Space Research* **21** (2016) 1, 15-42

- 27 L. M. Wallenhorst, S. Dahle, M. Vovk, L. Wurlitzer, L. Loewenthal, N. Mainusch, C. Gerhard, W. Viöl: Characterization of PMMA/ATH layers realized by means of atmospheric pressure plasma powder deposition, *Advances in Condensed Matter Physics* **2015** (2015) 980482 (12 pp)
- 26 C. Gerhard, J. Hermann, T. Sarnet, J. M. Nardini, W. Viöl: Detection of lead and arsenic soil pollution in abandoned industrial poles to the south of Marseille, France by laser-induced breakdown spectroscopy, *Scottish Journal of Arts, Social Sciences and Scientific Studies* **26** (2015) 1, 95-110
- 25 J. Hirschberg, C. Gerhard, A. Braun, S. Grottker, A. Krupp, S. Emmert, W. Viöl: Validation of the suitability of stripped lipid as a skin model in plasma medical investigations, *Open Journal of Applied Science* **5** (2015) 40-49
- 24 J. Hoffmeister, S. Brückner, C. Gerhard, S. Wieneke, W. Viöl: Impact of the thermal lens effect in atmospheric pressure DBD-plasma columns on coaxially guided laser beams, *Plasma Sources Science and Technology* **23** (2014) 064008 (5pp)
- 23 C. Gerhard, J. Hermann, L. Mercadier, L. Loewenthal, E. Axente, C.R. Luculescu, T. Sarnet, M. Sentis, W. Viöl: Quantitative analyses of glass via laser-induced breakdown spectroscopy in argon, *Spectrochimica Acta Part B* **101** (2014) 32-45
- 22 J. Hermann, C. Gerhard, E. Axente, C. Dutouquet: Comparative investigation of laser ablation plumes in air and argon by analysis of spectral line shapes: Insights on calibration-free laser-induced breakdown spectroscopy, *Spectrochimica Acta Part B* **100** (2014) 189-196
- 21 D. Tasche, C. Gerhard, J. Ihlemann, S. Wieneke, W. Viöl: The impact of O/Si ratio and hydrogen content on ArF excimer laser ablation of fused silica, *Journal of the European Optical Society - Rapid Publications* **9** (2014) 14026 (4pp)
- 20 C. Gerhard, M. Dammann, S. Wieneke, W. Viöl: Sequential atmospheric pressure plasma-assisted laser ablation of photovoltaic cover glass for improved contour accuracy, *Micromachines* **5** (2014) 3, 408-419
- 19 J. Heine, R. Damm, C. Gerhard, S. Wieneke, W. Viöl: Surface activation of plane and curved automotive polymer surfaces by using a fittable multi-pin DBD plasma source, *Plasma Science and Technology* **16** (2014) 6, 593-597
- 18 C. Gerhard, T. Weihs, A. Luca, S. Wieneke, W. Viöl: Polishing of optical media by dielectric barrier discharge inert gas plasma at atmospheric pressure, *Journal of the European Optical Society - Rapid Publications* **8** (2013) 13081 (5pp)
- 17 C. Gerhard, T. Weihs, D. Tasche, S. Brückner, S. Wieneke, W. Viöl: Atmospheric pressure plasma treatment of fused silica, related surface and near-surface effects and applications, *Plasma Chemistry and Plasma Processing* **33** (2013) 5, 895-905
- 16 A. Gredner, C. Gerhard, S. Wieneke, K. Schmidt, W. Viöl: Increase in generation of poly-crystalline silicon by atmospheric pressure plasma-assisted excimer laser annealing, *Journal of Materials Science and Engineering B* **3** (2013) 6, 346-351
- 15 C. Gerhard, S. Roux, F. Peters, S. Brückner, S. Wieneke, W. Viöl: Hybrid laser ablation of Al₂O₃ applying simultaneous argon plasma treatment at atmospheric pressure, *Journal of Ceramic Science and Technology* **4** (2013) 1, 19-24
- 14 C. Gerhard, J. Heine, S. Brückner, S. Wieneke, W. Viöl: A hybrid laser-plasma ablation method for improved nanosecond laser machining of heavy flint glass, *Lasers in Engineering* **24** (2013) 5-6, 391-403
- 13 C. Gerhard, J. Heine, B. Bahr, S. Brückner, W. Viöl: A common-path interferometer including integrated single-prism beam shaping, *Measurement* **46** (2013) 3, 1291-1296
- 12 M. Bellmann, C. Gerhard, C. Haese, S. Wieneke, W. Viöl: DBD plasma improved spot repair of automotive polymer surfaces, *Surface Engineering* **28** (2012) 10, 754-758

- 11 C. Gerhard, B. Bahr, S. Brückner, W. Viöl: Single-prism shaping of laser beams: mathematical background and application, *Journal of Optics Research* **14** (2012) 1-10
- 10 C. Gerhard, S. Roux, S. Brückner, S. Wieneke, W. Viöl: Atmospheric pressure argon plasma-assisted enhancement of laser ablation of aluminum, *Applied Physics A* **108** (2012) 1, 107-112
- 9 C. Gerhard, S. Roux, S. Brückner, S. Wieneke, W. Viöl: Low-temperature atmospheric pressure argon plasma treatment and hybrid laser-plasma ablation of barite crown and heavy flint glass, *Applied Optics* **51** (2012) 17, 3847-3852
- 8 C. Gerhard, D. Tasche, S. Brückner, S. Wieneke, W. Viöl: Near-surface modification of optical properties of fused silica by low-temperature hydrogenous atmospheric pressure plasma, *Optics Letters* **37** (2012) 4, 566-568
- 7 S. Brückner, J. Hoffmeister, J. Ihlemann, C. Gerhard, S. Wieneke, W. Viöl: Hybrid laser-plasma micro-structuring of fused silica based on surface reduction by a low-temperature atmospheric pressure plasma, *Journal of Laser Micro/Nanoengineering* **7** (2012) 1, 73-76
- 6 S. Brückner, S. Rösner, C. Gerhard, S. Wieneke, W. Viöl: Plasma-based ionisation spectroscopy for material analysis, *Materials Testing* **53** (2011) 10, 639-642
- 5 A. Stephen, C. Gerhard, F. Vollertsen: Precision machining with the laser - From material removal to material accumulation, *wt-online* **11/12** (2010) 842-846
- 4 C. Gerhard, F. Vollertsen: A modified bath-interferometer for profile measurements of microstructures, *tm - Technisches Messen* **77** (2010) 11, 579-582
- 3 C. Gerhard, A. Stephen, F. Vollertsen: Limits for interferometric measurements on rough surfaces in streaming inhomogeneous media, *Production Engineering Research and Development* **4** (2010) 141-146
- 2 C. Gerhard, F. Druon, P. Blandin, M. Hanna, F. Balembois, P. Georges, F. Falcoz: Efficient versatile-repetition-rate picosecond source for material processing applications, *Applied Optics* **47** (2008) 7, 967-974
- 1 C. Gerhard, F. Druon, P. Georges, V. Couderc, P. Leproux: Stable mode-locked operation of a low repetition rate diode-pumped Nd:GdVO₄ laser by combining quadratic polarisation switching and a semiconductor saturable absorber mirror, *Optics Express* **14** (2006) 16, 7093-7098

Publikationen in nicht referierten Fachzeitschriften

Publications in non-peer-reviewed journals / Articles de vulgarisation

- 30 C. Gerhard, A. Dobis: Manufacturing-induced surface contaminations – Water absorption of optical glass surfaces induced by classical bound abrasive grinding, *Vakuum in Forschung und Praxis* **33** (2021) 1, 33-37
- 29 C. Gerhard, E. Letien, T. Cressent, M. Hofmann: Impact of the plasma power on plasma-induced increase in absorption of fused silica, *Wissenschaftliche Beiträge* **23** (2019) 33-37
- 28 C. Gerhard, L. ten Bosch: Plasma jet cleaning of optics - Cleaning of silver-coated mirrors by means of atmospheric pressure plasma jets, *Vakuum in Forschung und Praxis* **30** (2018) 3, 32-35
- 27 C. Gerhard: Laser-Plasma-Oberflächenbearbeitung - Effizienz- und Qualitätssteigerung durch Kopplung von Laserlicht und Plasma, *Magazin für Oberflächentechnik* **71** (2017) 21-23
- 26 C. Gerhard, J. Hermann: Glasanalyse mit Laser, *dgg journal* **15** (2016) 6, 11-15

- 25 C. Gerhard, A. Gredner, N. Mainusch, W. Viöl: Enhanced processing of coatings on glass surfaces - Introducing atmospheric pressure plasmas to laser processes, *Vakuum in Forschung und Praxis* **28** (2016) 4, 19-22
- 24 C. Gerhard, S. Wieneke, W. Viöl: Plasmabehandlung von Glasoberflächen, *dgg journal* **14** (2015) 4, 10-12
- 23 C. Gerhard, S. Wieneke, W. Viöl: Verfahren zur Glasbearbeitung - Hohe Qualität durch Laser-Plasma-Hybridstrukturierung, *Journal für Oberflächentechnik* **1/2015**, 46-47
- 22 C. Gerhard, G. Adams: Optical design with WinLens™3D - Part 3: Analysis and optimisation, *optolines* **33** (2013) 11-13
- 21 C. Gerhard, G. Adams: Optical design with WinLens™3D - Part 2: Simulation and analysis, *optolines* **32** (2013) 12-13
- 20 G. Adams, T. Thöniß, C. Gerhard: Designed to Disperse: Easy modelling of prism and grating spectrometers and more, *Optik & Photonik* **8** (2013) 1, 50-53
- 19 C. Gerhard, G. Adams: Optical design with WinLens™3D - Part 1: Preliminary viewing with PreDesigner, *optolines* **31** (2013) 4-5
- 18 C. Gerhard, M. Kretschmer, W. Viöl: Plasma meets glass - plasma-based modification and ablation of optical glasses, *Optik & Photonik* **7** (2012) 4, 35-38
- 17 C. Gerhard, W. Viöl: Laser-Plasma-Ablation optischer Gläser, *optolines OPTATEC Special* (2012) 31-33
- 16 J. Hoffmeister, C. Gerhard: Leichtbauspiegel für Weltraumteleskope - Materialien, Konzepte und Herstellungsmethoden, *optolines* **26** (2011) 26-28
- 15 C. Gerhard, S. Wienecke, S. Lotz: Was ist genau? Fertigungstoleranzen optischer Komponenten und Systeme, *Optik & Photonik* **6** (2011) 1, 35-38
- 14 C. Gerhard, F. Vollertsen: Laser in der Mikrotechnologie - Verfahren, Anwendungen und Marktpotenzial, *Industrie Management* **26** (2010) 33-36
- 13 C. Gerhard: Grundlagen der Glasherstellung und Optikfertigung - Herstellung feinoptischer Komponenten, *optolines* **25** (2010) 18-20
- 12 C. Gerhard, G. Adams: Correction of chromatic aberration - from design to completed lens systems, *Imaging & Microscopy* **3/2010**, 39-40
- 11 C. Gerhard, F. Vollertsen: Interferometrische Profilmessung in der laserchemischen Mikromaterialbearbeitung, *Photonik* **4/2010**, 33-35
- 10 C. Gerhard, G. Adams, S. Wienecke: Design and manufacture of achromatic lenses, *LED professional Review* **19** (2010) 40-43
- 9 C. Gerhard, R. Doll, K. Partes, F. Vollertsen: Selektives Laserschmelzen und laserchemische Bearbeitung - Licht als Werkzeug im Werkzeugbau, *optolines* **23** (2010) 11-13
- 8 C. Gerhard, S. Wienecke: In Form gebracht - Herstellung optischer Komponenten für Teleskope, *interstellarum* **69** (2010) 52-56
- 7 C. Gerhard, A. Stephen, F. Vollertsen: Die Chemie stimmt... Laserchemische Mikromaterialbearbeitung erlaubt eine hohe Bearbeitungsqualität bei geringer Laserleistung, *Laser + Photonik* **1/2010**, 42-44
- 6 C. Gerhard, P. Georges, F. Druon, V. Couderc, W. Viöl: Doppelt gekoppelt - Eine neue passiv modengekoppelte Laserquelle ermöglicht zahlreiche Anwendungen, *Physik Journal* **8** (2009) 8/9, 79-81

- 5 T. Thöniß, G. Adams, C. Gerhard: Optical system design - software tools cover envelope calculations to the final engineering drawings, *Optik & Photonik* **4** (2009) 2, 30-33
- 4 C. Gerhard: Passiv modengekoppelte Laserquelle - Einstellbarer Kurzpuls laser, *optolines* **20** (2009) 16-18
- 3 G. Adams, C. Gerhard, T. Thöniß: Präzises, wirklichkeitsgetreues Optikdesign - Neue Dimensionen: WinLens™ 3D, *optolines* **20** (2009) 6-7
- 2 N. Harendt, C. Gerhard: Simulation and optimization of optical systems, *LED professional Review* **10** (2008) 40-42
- 1 C. Gerhard, P. Blandin, F. Druon: Stabiler Pikosekundenbetrieb in der Mikromaterialbearbeitung - Neue Techniken für temperaturempfindliche Materialien, *Laser + Photonik* **5/2008**, 66-68

Referierte Konferenzbeiträge

Peer-reviewed conference contributions

Communications dans un congrès avec comité de lecture

- 3 C. Gerhard: Plasma-induced generation of optically active defects in glasses, *Materials Research Proceedings* **16** (2020) 38-45
- 2 J. Hoffmeister, C. Gerhard, S. Brückner, J. Ihlemann, S. Wieneke, W. Viöl: Laser microstructuring of fused silica subsequent to plasma-induced silicon suboxide generation and hydrogen implantation, *Physics Procedia* **39** (2012) 613-620
- 1 P. Zhang, P. Cuypers, C. Gerhard, A. v. Freyberg, A. Stephen, G. Goch, F. Vollertsen: Control model for laser chemical machining of micro forming tools, *Proceedings of the 2nd CIRP International Conference on Process Machine Interactions*, Vancouver, Canada (2010), ISBN 978-0-9866331-0-2 (CD-ROM)

Nicht referierte Konferenzbeiträge

Conference contributions without peer review

Communications dans un congrès sans comité de lecture

- 11 C. Gerhard, G. Mielke, L.-H. Beste, D. Tasche; Plasma-induced shaping of liquid-based polymer lenses, *Proceedings of SPIE* **11853**, *Eighth European Seminar on Precision Optics Manufacturing* (2021) 118530C, DOI:10.1117/12.2594607
- 10 C. Gerhard; Applications of cold atmospheric pressure plasmas in optics manufacturing, *Proceedings of SPIE* **11478**, *Seventh European Seminar on Precision Optics Manufacturing* (2020) 114780D, DOI: 10.1117/12.2564862
- 9 D. Tasche, C. Gerhard, S. Brückner, S. Wieneke, T. Gimpel, G. Flachenecker, W. Schade, W. Viöl: Einfluss eines Atmosphärendruckplasmas auf die Femtosekunden-laserstrukturierung von AlMg₃, *Tagungsband zur 11. Mittweidaer Lasertagung an der Hochschule Mittweida* (2019) 54-58
- 8 C. Gerhard, J. Hermann: Investigation of non-uniformity of classically-polished fused silica surfaces via laser-induced breakdown spectroscopy, *European Physical Journal Web of Conferences* **215** (2019) 08003 (2pp), DOI: 10.1051/epjconf/201921508003
- 7 C. Gerhard, M. Stappenbeck, D. Tasche: Increasing the laser-induced damage threshold of optical components by atmospheric pressure plasma surface finishing, *European Physical Journal Web of Conferences* **215** (2019) 01003 (2pp), DOI: 10.1051/epjconf/201921501003

- 6 C. Gerhard, A. Gredner, N. Mainusch, W. Viöl: Enhanced processing of coatings on glass surfaces by introducing atmospheric pressure plasmas to laser processes, *Proceedings of the 11th International Conference on Coatings on Glass and Plastics (ICCG11)* (2016) 285-288
- 5 C. Gerhard, S. Wieneke: From experiment to publication in one semester: A lecture course model on the basis of a photonic researcher's every-day tasks, *Proceedings of SPIE 9793, Education and Training in Optics and Photonics (ETOP)* (2015) 97932R
- 4 C. Gerhard, G. Adams: Easy-to-use software tools for teaching the basics, design and applications of optical components and systems, *Proceedings of SPIE 9793, Education and Training in Optics and Photonics (ETOP)* (2015) 97930N
- 3 A. Stephen, C. Gerhard, F. Vollertsen: Laser-chemical finishing of micro forming tools, *Proceedings of SPIE 7921, Laser-based Micro- and Nanopackaging and Assembly V* (2011) 7921-17
- 2 C. Gerhard, F. Vollertsen: Interferometric in-process measurement of free-form surfaces in laser-chemical manufacturing, *Proceedings of the 11th International Symposium on Laser Precision Microfabrication (LPM2010)*, Hrsg.: Japan Laser Processing Society (2010) 10-38
- 1 C. Gerhard, A. Stephen, F. Vollertsen: Lasermikrostrukturierung in der industriellen Anwendung, *Tagungsband LEF 2010: Laser in der Elektronikproduktion & Feinwerktechnik*, Hrsg.: M. Schmidt, M. Geiger, C. Kägeler, Meisenbach Bamberg (2010) 115-121