

## Publications

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### Peer Reviewed Articles in Scientific Journals

1. Bäuerle T, Ulitzsch S, Lorenz A, Rebner K, Chassé T, Kandelbauer A, Lorenz G (2020) Effects of process parameters on silane grafting of liquid ethylene-propylene copolymer by reactive extrusion as quantified by response surface methodology, *Polymer* 202, 122601
2. Urdl K, Weiss S, Christöfl P, Kandelbauer A, Müller U, Kern W (2020) Diels-Alder modified self-healing melamine resin, *European Polymer Journal* 127, 109601
3. Wuzella G, Mahendran AR, Kandelbauer A (2020) Green composite material made from typha latifolia fibres bonded with an epoxidized linseed oil/tall oil-based polyamide binder system, *Journal of Renewable Materials* 8 (5), 499-512
4. Thébault M, Kutuzova L, Jury S, Eicher I, Zikulnig-Rusch EM, Kandelbauer A (2020) Effect of phenolation, lignin-type and degree of substitution on the properties of lignin-modified phenol-formaldehyde impregnation resins: Molecular weight distribution, wetting behavior, rheological properties and thermal curing profiles, *Journal of Renewable Materials* 8 (6), 603-630
5. Kutuzova L, Molentor O, Wu F, Song W, Kandelbauer A, Lorenz G (2019) Protective role of vitamin E to reduce oxidative degradation of soft implantable polyurethanes: In vitro study, *Current Directions in Biomedical Engineering* 5 (1), 449-451
6. Urdl K, Weiss S, Hesser G, Kandelbauer A, Zikulnig-Rusch EM, Müller U (2019) Data on production and characterization of melamine-furan-formaldehyde particles and reversible reactions thereof, *Data in Brief* 25, 104056
7. Urdl K, Weiss S, Brodbeck B, Kandelbauer A, Zikulnig-Rusch EM, Müller U (2019) Homogeneous, monodispersed furan-melamine particles performing reversible binding and forming networks, *European Polymer Journal* 116, 158-168
8. Riehle N, Thude S, Kandelbauer A, Tovar GEM, Lorenz G (2019) Synthesis of Soft Polysiloxane-urea Elastomers for Intraocular Lens Application, *Journal of Visualized Experiments*, e58590
9. Weiss S, Urdl K, Mayer HA, Zikulnig-Rusch EM, Kandelbauer A (2019) IR spectroscopy: Suitable method for determination of curing degree and crosslinking type in melamine-formaldehyde resins, *Journal of Applied Polymer Science* 136, paper 47691
10. Urdl K, Weiss S, Karpa A, Peric M, Zikulnig-Rusch EM, Brecht M, Kandelbauer A, Müller U, Kern W (2018) Furan-functionalised melamine-formaldehyde particles performing Diels-Alder reactions, *European Polymer Journal* 108, 225-234
11. Thébault M, Kandelbauer A, Eicher I, Geyer B, Zikulnig-Rusch EM (2018) Properties data of phenolic resins synthesized for impregnation of saturating Kraft paper, *Data in brief* 20, 345-352
12. Kutuzova L, Athanasopulu K, Schneider M, Kandelbauer A, Kemkemer R, Lorenz G (2018) In vitro bio-stability screening of novel implantable polyurethane elastomers: Morphological design and mechanical aspects, *Current Directions in Biomedical Engineering* 4 (1), 535-538
13. Thébault M, Kandelbauer A, Zikulnig-Rusch EM, Putz R, Jury S, Eicher I (2018) Impact of phenolic resin preparation on its properties and its penetration behavior in Kraft paper, *European Polymer Journal* 104, 90-98
14. Riehle N, Götz T, Kandelbauer A, Tovar GEM, Lorenz G (2018) Data on the synthesis and mechanical characterization of polysiloxane-based urea-elastomers prepared from amino-terminated polydimethylsiloxanes and polydimethyl-methyl-phenyl, *Data in Brief* 18, 1784-1794
15. Riehle N, Thude S, Götz T, Kandelbauer A, Thanos S, Tovar GEM, Lorenz G (2018) Influence of PDMS molecular weight on transparency and mechanical properties of soft polysiloxane-urea-elastomers for intraocular lens application, *European Polymer Journal* 101, 190-201

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17. Thébault M, Müller U, Kandelbauer A, Zikulnig-Rusch EM, Lammer H (2018) Review on impregnation issues in laminates manufacture: opportunities and risks of phenol substitution by lignins or other natural phenols in resins, *European Journal of Wood and Wood Products* 75 (6) 853-876
18. Thébault M, Kandelbauer A, Müller U, Zikulnig-Rusch E, Lammer H (2017) Factors influencing the processing and technological properties of laminates based on phenolic resin impregnated papers, *European Journal of Wood and Wood Products* 75 (5), 785-806
19. Urdl K, Kandelbauer A, Kern W, Müller U, Thebault M, Zikulnig-Rusch E (2017) Self-healing of densely crosslinked thermoset polymers—a critical review, *Progress in Organic Coatings* 104, 232-249
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21. Geyer B, Lorenz G, Kandelbauer A (2016) Recycling of poly(ethylene terephthalate) – A review focusing on chemical methods, *Express Polymer Letters* 10 (7) 559-586
22. Sinic J, Ters T, Höllbacher E, Jocham C, Jury S, Kandelbauer A, Müller U (2016) VOC-Emissionen und Oberflächeneigenschaften von lackierten MDF für Küchenmöbel, *Holztechnologie* 57 (3), 29-35
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27. Badila M, Kohlmayr M, Zikulnig-Rusch EM, Dolezel-Horwath E, Kandelbauer A (2014) Improving the cleanability of melamine-formaldehyde-based decorative laminates, *Journal of Applied Polymer Science* 131 (21), art.no. 40964, p1-9
28. Geyer B, Röhner S, Lorenz G, Kandelbauer A (2014) Syntheses of ethylene terephthalate and ethylene naphthalate (PET-PEN) block-co-polyesters with defined surface qualities by tailoring segment composition, *Journal of Applied Polymer Science* 131 (17) art.no. 40731, 8916-8930”
29. Widsten P, Kandelbauer A (2014) Industrial scale evaluation of cationic tannin as a binder for hardboard, *Journal of Adhesion Science and Technology* 28 (13) 1256-1263
30. Leitner J, Saren M, Wöss K, Kandelbauer A (2014) On estimating local defects of softwood kraft fibers stained with Congo Red and assessed with novel fiber analyzer, *Industrial Crops and Products* 55, 123-129

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31. Wuzella G, Kandelbauer A, Mahendran AR, Müller U, Teischinger A (2014) Influence of thermo-analytical and rheological properties of an epoxy powder coating resin on the quality of coatings on medium density fibreboards (MDF) using in-mould technology, *Progress in Organic Coatings* 77 (10) 1539-1546
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33. Kohlmayr M, Stultschnik J, Teischinger A, Kandelbauer A (2014) Drying and curing behaviour of melamine formaldehyde resin impregnated papers, *Journal of Applied Polymer Science* 131 (3), art. no. 39860, p1-9
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35. Mahendran AR, Wuzella G, Aust N, Müller U, Kandelbauer A (2013) Processing and characterization of natural fiber reinforced composites using lignin phenolic binder, *Polymers and Polymer Composites* 21 (4) 199 – 206
36. Leitner J, Seyfriedsberger G, Kandelbauer A (2013) Modifications in the bulk and the surface of unbleached lignocellulosic fibers induced by a heat treatment without water removal – Effects on fiber relaxation on PFI-beaten kraft fibers, *European Journal of Wood and Wood Products* 71 (6) 725 – 738
37. Hasmann A, Wehrsuetz-Sigl E, Marold A, Wiesbauer H, Schoeftner R, Gewessler U, Kandelbauer A, Schiffer D, Schneider K, Binder B, Schintler M, Guebitz GM (2013) Analysis of myeloperoxidase activity in wound fluids as marker for infection. *Annals of Clinical Biochemistry*, 50 (3) 245 – 254
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41. Mahendran AR, Aust N, Wuzella G, Müller U, Kandelbauer A (2012) Bio-based Non-Isocyanate Urethane Derived from Plant Oil, *Journal of Polymers and the Environment* 20 (4) 926 – 931
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43. Kohlmayr M, Zuckerstätter G, Kandelbauer A (2012) Modification of melamine-formaldehyde resins by substances from renewable resources. *Journal of Applied Polymer Science* 124 (6) 4416 – 4423
44. Mahendran AR, Wuzella G, Aust N, Kandelbauer A, Müller U (2012) Photocrosslinkable modified vegetable oil based resin for wood surface coating applications. *Progress in Organic Coatings* 74 (4) 697 – 704

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53. Wuzella G, Mahendran AR, Bätge T, Jocham C, Kandelbauer A (2010) Pulverlackierung von Pressteilen aus 3-D-verformbaren Naturfaserverbundwerkstoffen. Beurteilung der Oberflächengüte für Anwendungen in der Möbelindustrie. Teil 2: Phenolharz-gebundene Pressteile. *Holztechnologie* 51 (5) 39–43
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58. Kandelbauer A, Teischinger A (2010) Dynamic mechanical properties of decorative papers impregnated with melamine formaldehyde resin. *European Journal of Wood and Wood Products* 68 (2) 179–187

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60. Kudanga T, Prasetyo EN, Sipilä J, Nousiainen P; Widsten P, Heathcote C, Kandelbauer A, Jury S, Gübitz GM, Nyanhongo GS (2010) Laccase catalyzed coupling of fluorophenols to lignin increases wood surface hydrophobicity. *Bioresource Technology* 101 (8) 2793 – 2799
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### Patents

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91. Kandelbauer A, Widsten P, Zikulnig-Rusch EM, Lammer H (2010) Impregnated paper with antimicrobial properties. European Patent Application EP 2202358 A1
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