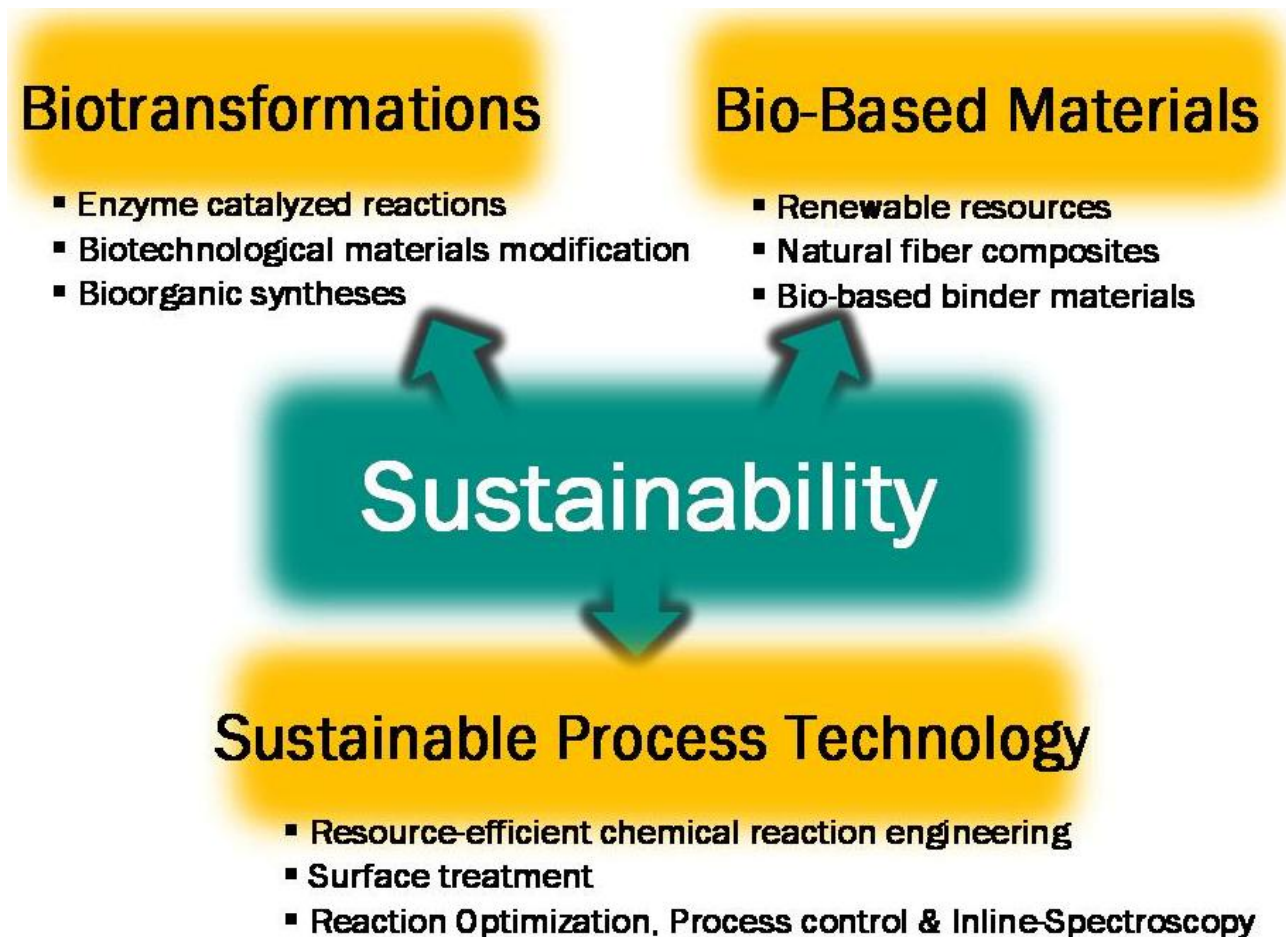




**Prof. Dr. techn. Dipl. Ing. Andreas Kandelbauer**

**Forschungsschwerpunkte:**



**Vorlesungen:**

- • Advanced Materials
- • Oberflächen- und Grenzflächenchemie
- • Anorganische Chemie
- • Qualitätsmanagement

## Praktika:

- • Advanced Materials
- • Qualitative Anorganische Analytik

## Forschungsschwerpunkte:

- • Verbundwerkstoffe
- • Biobased Materials
- • Biotransformations
- • Grenzflächen und Oberflächen
- • Beschichtung

## Laufbahn

- 2009                    Berufung an die HS Reutlingen, Angewandte Chemie
- 2006 – 2009            Universität für Bodenkultur, Wissenschaftlicher Mitarbeiter  
Key Researcher Oberflächentechnologie der Kompetenzzentrum Holz GmbH  
in St. Veit / Glan, Wood Carinthian Competence Centre (W3C)
- 2005 – 2006            Kompetenzzentrum Holz GmbH, Stellvertretender Bereichsleiter  
& Senior Researcher für den Bereich St. Veit / Glan "Naturfaserwerkstoffe"
- 2002 – 2005            FunderMax GmbH, Projektleiter von Forschungsprojekten  
Forschungsbereiche "Naturfaserverbundwerkstoffe", "Imprägniertes Papier und  
Lamine" und "Prozessanalytik und -optimierung"
- 2000 – 2003            Technische Universität Graz, Österreich  
Dissertation am Inst. f. Mikrobiologie und Abfalltechnologie

Wissenschaftliche Auslandsaufenthalte in Finnland (VTT Biotechnologie, Espoo), Frankreich (ENSTIB, Epinal) und Schweden (Lund Universität, Lund)

## Wissenschaftliche Publikationen von Prof. Dr. Andreas Kandelbauer

### Peer-reviewed Scientific Journal Articles

1. Jocham C, Wuzella G, Schmidt TW, Teischinger A, Kandelbauer A (2011) Adhesion improvement of powder coating on medium density fibreboard (MDF) by thermal pretreatment, *Journal of Adhesion Science and Technology* (accepted manuscript)
2. Wuzella G, Kandelbauer A, Mahendran AR, Teischinger A (2011) Thermochemical and isoconversional kinetic analysis of a polyester-epoxy hybrid powder coating resin for wood based panel finishing. *Progress in Organic Coatings* (accepted manuscript)
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6. 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 1: Acrylharz-gebundene Pressteile. *Holztechnologie* 51 (4) 34–38
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11. Kandelbauer A, Petek P, Medved S, Pizzi A, Teischinger A (2010) On the performance of a melamine-urea-formaldehyde resin for decorative paper coatings, *European Journal of Wood and Wood Products* 68 (1) 63 – 75
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44. Widsten P, Kandelbauer A, Heathcote C (2010) Lignocellulosic substrates with enhanced antibacterial properties and method for obtaining those. European Patent Application EP 2199046 A1
45. Widsten P, Hummer A, Kandelbauer A (2010) Lignocellulosic fiberboards made with tannin and phenol-oxidizing enzyme. European Patent Application EP 2189489 A1
46. Kandelbauer A, Paar A, Weigl M, Grabner M, Müller U, Pöckl J (2009) Verfahren zum Färben von Lignin haltigen Stoffen, wie Holz. Austrian Patent Application AT506635

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48. Kandelbauer A, Wuzella G, Dolezel-Horwath E, Wimmer R (2008) Verfahren zum Bestimmen der Zusammensetzung von Faserstoffgemischen und/oder Formteilen, Austrian Patent Application AT504893
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## **Book Chapters**

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53. Widsten P, Kandelbauer A (2009) Biotechnologische Modifikation von Lignin. In: Fachagentur Nachwachsende Rohstoffe e.V. (Ed.) Gülzower Fachgespräche Band 31 (March 10, 2009) 10–17, Bundesministerium für Ernährung, Landwirtschaft und Verbraucherschutz, Berlin, Germany, ISBN: 978-3-9803927-7-8
54. Kandelbauer A, Cavaco-Paulo A, Gübitz GM (2007) Biotechnological treatment of textile dye effluents. In: Christie, RM (Ed.) Environmental Aspects of Textile Dyeing, 212 – 231; Woodhead, Cambridge, England; ISBN 1845691156
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56. Kandelbauer A, Fruhwirth G (2006) Prozessanalytik in der Fertigungsindustrie. In: Kessler RW (Ed.), Prozessanalytik - Strategien und Fallbeispiele aus der industriellen Praxis, 571 – 639, Wiley-VCH, Weinheim; ISBN 3527311963
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## **Other scientific publications**

### **(Conference Proceedings, journal articles, multi-media, etc.)**

60. Jocham C, Schmidt TW, Kandelbauer A, Wuzella G (2010) Powder Coating Medium Density Fibreboards (MDF) – Analysis of the pre-heating process, In: Proceedings of PRA´s 7th International Woodcoatings Congress, "Reducing the environmental footprint", October 12 – 13, 2010, Amsterdam, The Netherlands, ISBN 978-0-9561357-2-8 (CD-ROM), Hampton, Middlesex, UK, P17, 1–10
61. Kandelbauer A, Wuzella G, Dolezel-Horwath E, Kessler RW (2010) On-line determination of material properties in laminates manufacture by NIR spectroscopy. In: Teischinger A, Barbu MC, Dunky M, Harper D, Jungmeier G, Militz H, Musso M, Petutschnigg A, Pizzi A, Wieland S, Young TM (Eds.) Proceedings of 1st International Conference on Processing Technologies for the Forest and Biobased Products Industries (PTF BPI 2010), October 6 – 8 2010, Salzburg University of Applied Sciences, Kuchl, Austria, 34–36
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69. Kandelbauer A (2010) Isoconversional kinetic analysis of liquid resins. VIDEO-presentation  
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