

A4: Complete List of Scientific Publications

(authored or co-authored by Prof. Dr. Andreas Kandelbauer)

A4.1 Peer Reviewed Articles in Scientific Journals

1. 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*, accepted June 24, 2013
2. Wehrsuetz-Sigl E, Hasmann A, 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, 245 – 254
3. Jocham C, Müller U, Wuzella G, Lammer H, Mayer C, Blatter A, Schwarz T, Schmidt TW, Hauber P, Himmelreich M, **Kandelbauer A** (2013) Einfluss der Plattenfeuchte auf die Pulverbeschichtung von mitteldichten Faserplatten (MDF), *Holztechnologie* 54 (2) 43 – 48
4. Leitner J, Zuckerstätter G, Schmied F, **Kandelbauer A** (2013) Modifications in the bulk and the surface of unbleached lignocellulosic fibers induced by a heat treatment without water removal – Effects on tensile properties of unrefined kraft pulp, *European Journal of Wood and Wood Products* 71, 101 – 110
5. Wuzella G, Mahendran AR, Müller U, **Kandelbauer A**, Teischinger A (2012) Photocrosslinking of an Acrylated Epoxidized Linseed Oil - Kinetics and its Application for Optimized Wood Coatings, *Journal of Polymers and the Environment* 20, 1063 – 1074
6. 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, 926 – 931
7. Acero EH, Ribitsch D, Rodriguez RD, Dellacher A, Zitzenbacher S, Marold A, Greimel KJ, Schröder M, **Kandelbauer A**, Heumann S, Nyanhongo GS, Schwab H, Guebitz GM (2012) Two-step enzymatic functionalisation of polyamide with phenolics, *Journal of Molecular Catalysis B: Enzymatic* 79, 54 – 60
8. Kohlmayr M, Zuckerstädter G, **Kandelbauer A** (2012) Modification of melamine-formaldehyde resins by substances from renewable resources. *Journal of Applied Polymer Science*, 124, 4416 – 4423
9. 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
10. Badila M, Dolezel-Horwath E, Zikulnig-Rusch EM, Holzinger D, Schmidt T, **Kandelbauer A** (2012) Influence of printing substrate characteristics on the quality of inkjet printed image. *European Journal of Wood and Wood Products*, DOI:

10.1007/s00107-012-0601-3, online first, available since February 9, 2012

11. Mahendran AR, Aust N, Wuzella G, **Kandelbauer A** (2012) Synthesis and characterization of a bio-based resin from linseed oil. *Macromolecular Symposia* 311 (1) 18 – 27
12. Mahendran AR, Wuzella G, **Kandelbauer A**, Aust N (2012) Thermal cure kinetics of epoxidized linseed oil with anhydride hardener. *Journal of Thermal Analysis and Calorimetry* 107 (3) 989 – 998
13. 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* 25 (15) 1937 – 1946
14. Wuzella G, Mahendran AR, Bätge T, Jury S, **Kandelbauer A** (2011) Novel, binder-free fiber reinforced composites based on a renewable resource from the reed-like plant *Typha* sp. *Industrial Crops and Products* 33 (3) 683 – 689
15. 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* 70 (4) 186 – 191
16. González-García S, Feijoo G, Heathcote C, **Kandelbauer A**, Moreira MT (2011) Environmental assessment of Green hardboard production coupled with Laccase activated system, *Journal of Cleaner Production* 19 (5) 445 – 453
17. Kohlmayr M, Eder F, Hölbling B, Muralt S, **Kandelbauer A** (2010) Direkt beschichtete abriebfeste Aminoplast-Oberflächen. *Holztechnologie* 51 (6) 30–35
18. 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
19. 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
20. Widsten P, Heathcote C, **Kandelbauer A**, Guebitz GM, Nyanhongo GS, Prasetyo EN, Kudanga T (2010) Enzymatic surface functionalisation of lignocellulosic materials with tannins for enhancing antibacterial properties. *Process Biochemistry* 45 (7) 1072–1081
21. **Kandelbauer A**, Wuzella G, Dolezel-Horwath E, Kessler RW (2010) Possibilities of online near infra red (NIR) spectroscopy in the area of the manufacturing industry using as example the comprehensive production control of decorative laminated sheet material. *Chemie Ingenieur Technik* 82 (4) 537–544
22. Mahendran A, Wuzella G, **Kandelbauer A** (2010) Thermal Characterization of Kraft Lignin Phenol-Formaldehyde Resin for Paper Impregnation. *Journal of Adhesion Science and Technology* 24 (8) 1553–1565
23. **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

24. **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
25. 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
26. Widsten P, Hummer A, Heathcote C, **Kandelbauer A** (2009) Preliminary study on fiberboard bonded with tannin and laccase in a wet process, *Holzforschung*, 63 (5) 545 – 550
27. Gonzalez-Garcia S, Feijoo G, Widsten P, **Kandelbauer A**, Zikulnig-Rusch EM, Moreira MT (2009) Environmental performance assessment of high-density fibreboard manufacture. *International Journal of Life Cycle Assessment* 14 (5) 456 – 466
28. **Kandelbauer A**, Teischinger A (2009) On the warping behaviour of particleboards coated with melamine formaldehyde resin impregnated papers, *European Journal of Wood and Wood Products* 67 (4) 367 – 378
29. **Kandelbauer A**, Wuzella G, Mahendran A, Taudes I, Widsten P (2009) Model-free kinetic analysis of melamine-formaldehyde resin cure, *Chemical Engineering Journal* 152, 556 – 565
30. **Kandelbauer A**, Wuzella G, Mahendran A, Taudes I, Widsten P (2009) Using isoconversional kinetic analysis of liquid melamine formaldehyde resin curing to predict laminate surface properties, *Journal of Applied Polymer Science* 113 (4) 2649 – 2660
31. Schwaiger E, **Kandelbauer A**, Teischinger A (2009) Practicalities and limitations of measurement techniques for paper properties that affect flexographic printability, *Nordic Pulp and Paper Research Journal* 24 (3) 347 – 358
32. **Kandelbauer A**, Widsten P (2009) Antibacterial melamine resin surfaces for wood-based furniture and flooring. *Progress in Organic Coatings* 65, 305 – 313
33. Kudanga T, Prasetyo EN, Sipilä J, Nousiainen P, Widsten P, **Kandelbauer A**, Nyanhongo GS, Gübitz GM (2008) Laccase-mediated wood surface functionalization. *Engineering in Life Sciences* 8 (3) 297 – 302
34. Widsten P, **Kandelbauer A** (2008) Adhesion of enzymatically or fungally treated lignocellulosic products. *Biotechnology Advances* 26, 379 – 386
35. **Kandelbauer A**, Gronalt M, Lammer H, Penker A, Wuzella G (2008) Kosteneinsparungen in der Holzindustrie durch Logistiko-optimierung, Prozessanalytik und Wissensmanagement. Teil 2: Prozessanalytik und Wissensmanagement. *Holztechnologie* 49 (1), 16 – 21
36. **Kandelbauer A**, Kessler W, Kessler RW (2008) Online UV/Vis spectroscopy and multivariate curve resolution as powerful tool for model-free investigation of laccase catalyzed oxidation. *Analytical and Bioanalytical Chemistry* 390 (5) 1303 – 1315
37. Widsten P, **Kandelbauer A** (2008) Laccase applications in the forest products industry: A review. *Enzyme and Microbial Technology* 42 (4) 293 – 307

38. Zikulnig-Rusch EM, Zander J, Kessler RW, Wuzella G, **Kandelbauer A** (2008) Prozesskontrolle durch Prozessdatenmanagement. *Holztechnologie* 49 (2) 31 – 36
39. Despres A, Pizzi A, Pasch H, **Kandelbauer A** (2007) Comparative ¹³C-NMR and matrix-assisted laser desorption / ionization time-of-flight analyses of species variation and structure maintenance during melamine-urea-formaldehyde resin preparation. *Journal of Applied Polymer Science* 106, 1106 – 1128
40. **Kandelbauer A**, Despres A, Pizzi A, Taudes I (2007) Testing by Fourier Transform infra red species variation during melamine-urea-formaldehyde resin preparation. *Journal of Applied Polymer Science* 106, 2192 – 2197
41. **Kandelbauer A**, Gronalt M, Lammer H, Penker A, Wuzella G (2007) Kosteneinsparungen in der Holzindustrie durch Logistiko Optimierung, Prozessanalytik und Wissensmanagement. Teil 1: Allgemeine Aspekte und Logistik-Management. *Holztechnologie* 48 (6) 5 – 9
42. Rehorek A, Hoffmann P, **Kandelbauer A**, Gübitz GM (2007) Sonochemical substrate selectivity and reaction pathway of systematically substituted azo compounds. *Chemosphere* 67, 1526 – 1532
43. Ganz A, **Kandelbauer A**, Kessler W, Kessler RW, Wimmer R (2006) Designing wood fibre morphology and mechanical properties of fibreboards. *Journal of Natural Fibres* 3 (2-3) 169 – 187
44. **Kandelbauer A**, Maute O, Kimmig M, Kessler RW, Gübitz GM (2006) Laccase catalyzed Indigo Carmine transformation. *Journal of Natural Fibres* 3 (2-3) 131 – 153
45. Schnitzhofer W, **Kandelbauer A**, Klug-Santner B, Onos M, Calafell M, Gübitz GM (2006) Production of cellulase-free polygalacturonase preparation by *Sclerotium rolfsii* for bioscouring of cotton. *Journal of Natural Fibres* 3 (2-3) 19 – 38
46. Schröder M, Lenting HBM, **Kandelbauer A**, Silva CJSM, Cavaco-Paulo A, Gübitz GM (2006) Restricting detergent protease action to surface of protein fibres by chemical modification. *Applied Microbiology and Biotechnology*, 72, 738 – 744
47. Held C, **Kandelbauer A**, Schröder M, Cavaco-Paulo A, Gübitz GM (2005) Biotransformation of phenolics with laccase containing bacterial spores. *Environmental Chemistry Letters*, 3 (2), 74 – 77
48. Almansa E, **Kandelbauer A**, Pereira L, Cavaco-Paulo A, Gübitz GM (2004) Influence of structure on dye degradation with laccase mediator systems. *Biocatalysis and Biotransformation*, 22 (5-6), 315 – 324
49. **Kandelbauer A**, Erlacher A, Cavaco-Paulo A, Gübitz GM (2004) Laccase catalyzed decolorization of the synthetic azodye Diamond Black PV 200 and of some structurally related derivatives. *Biocatalysis and Biotransformation*, 22 (5-6), 331 – 339
50. **Kandelbauer A**, Maute O, Erlacher A, Kessler RW, Gübitz GM (2004) Study on dye decolorization in an immobilized laccase enzyme-reactor using online spectroscopy. *Biotechnology and Bioengineering*, 87, 552 – 563
51. Maier J, **Kandelbauer A**, Erlacher A, Cavaco-Paulo A, Gübitz GM (2004) A New alkali-thermostable azoreductase from *Bacillus* sp. strain SP. *Applied and Environmental Microbiology*, 70, 837 – 844

52. Campos R, **Kandelbauer A**, Robra KH, Cavaco-Paulo A, Gübitz GM (2001) Indigo degradation with purified laccases from *Trametes hirsuta* and *Sclerotium rolfsii*. *Journal of Biotechnology*, 89, 131 – 139
53. Martinkova L, Klempier N, Bardakji J, **Kandelbauer A**, Ovesna M, Podarilova T, Kuzma M, Prepechalova I, Griengl H, Kren V (2001) Biotransformation of 3-substituted methyl (R,S)-4-cyanobutanoates with nitrile and amide converting biocatalysts. *Journal of Molecular Catalysis B: Enzymatic*, 14, 95 – 99
54. Strauss U, **Kandelbauer A**, Faber K (2000) Stabilization and activity enhancement of mandelate racemase from *Pseudomonas putida* ATCC 12336 by immobilization. *Biotechnology Letters*, 22, 515 – 520

A4.2 Patents

55. Widsten P, Heathcote C, **Kandelbauer A** (2010) Dry and wet strength improvement of paper products with cationic tannin. European Patent Application EP2239370 (A1)
56. **Kandelbauer A**, Widsten P, Zikulnig-Rusch EM, Lammer H (2010) Impregnated paper with antimicrobial properties. European Patent Application EP 2202358 A1
57. Widsten P, **Kandelbauer A**, Heathcote C (2010) Lignocellulosic substrates with enhanced antibacterial properties and method for obtaining those. European Patent Application EP 2199046 A1
58. Widsten P, Hummer A, **Kandelbauer A** (2010) Lignocellulosic fiberboards made with tannin and phenol-oxidizing enzyme. European Patent Application EP 2189489 A1
59. **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
60. **Kandelbauer A**, Koppitsch M, Lammer H (2009) Verfahren und Vorrichtung zur Bestimmung der Abrieffestigkeit. Austrian Patent Application AT506176
61. **Kandelbauer A**, Wuzella G, Dolezel-Horwath E, Wimmer R (2008) Verfahren zum Bestimmen der Zusammensetzung von Faserstoffgemischen und/oder Formteilen, Austrian Patent Application AT504893
62. Gübitz GM, Cavaco-Paulo A, **Kandelbauer A**, Schroeder M, Held CI (2004) Laccase enthaltender Biokatalysator, European Patent Application EP1468968

A4.3 Chapters in Scientific Books

63. **Kandelbauer A**, Zikulnig-Rusch EM, Widsten P (2013) Beschichtete Holzwerkstoffe für Anwendungen mit erhöhten Anforderungen an die hygienischen Eigenschaften. In: Teischinger A (Ed.), *LIGNOVISIONEN BAND 16 „HOLZ UND HYGIENE“*, In press
64. Jochem C, Sinic J, Schmidt TW, Müller U, **Kandelbauer A** (2013) Preparing medium density fiberboard (MDF) surfaces for powder coating: Effects of atmospheric plasma treatment, infrared irradiation and climatization, In: Dodiuk H, Gutowski V (Eds.) *Recent Advances in Adhesion Science and Technology. Festschrift in Honor of Dr. Kash Mittal*, ISBN 978-9004-201-736, accepted manuscript, in press

65. Patterson R, **Kandelbauer A**, Müller U, Lammer H (2013) Cross-Linked Thermoplastics (Chapter 14), In: Dodiuk H, Goodman SW (Eds.) (2013) Handbook of Thermoset Plastics, 3rd Edition, Elsevier, Oxford, UK, ISBN 978-1455-731-077, accepted manuscript, in press
66. **Kandelbauer A** (2013) Cyanate Ester Resins (Chapter 17), In: Dodiuk H, Goodman SW (Eds.) (2013) Handbook of Thermoset Plastics, 3rd Edition, Elsevier, Oxford, UK ISBN 978-1455-731-077, accepted manuscript, in press
67. **Kandelbauer A** (2013) Processing Thermosetting Resins (Chapter 18), In: Dodiuk H, Goodman SW (Eds.) (2013) Handbook of Thermoset Plastics, 3rd Edition, Elsevier, Oxford, UK ISBN 978-1455-731-077, accepted manuscript, in press
68. **Kandelbauer A**, Tondi G, Zaske O, Goodman S (2013) Unsaturated Polyester and Vinyl Ester Resins (Chapter 5), In: Dodiuk H, Goodman SW (Eds.) (2013) Handbook of Thermoset Plastics, 3rd Edition, Elsevier, Oxford, UK ISBN 978-1455-731-077, accepted manuscript, in press
69. Lorenz G, **Kandelbauer A**, Patterson R (2013) Silicones (Chapter 11), In: Dodiuk H, Goodman SW (Eds.) (2013) Handbook of Thermoset Plastics, 3rd Edition, Elsevier, Oxford, UK ISBN 978-1455-731-077, accepted manuscript, in press
70. Tondi G, **Kandelbauer A** (2013) Allyls (Chapter 6), In: Dodiuk H, Goodman SW (Eds.) (2013) Handbook of Thermoset Plastics, 3rd Edition, Elsevier, Oxford, UK ISBN 978-1455-731-077, accepted manuscript, in press
71. **Kandelbauer A**, Rahe M, Kessler RW (2012) Process Control and Quality Assurance: Industrial Perspectives, in: Popp J, Tuchin VV, Heinemann S (2012) Handbook of Biophotonics, Vol. 3: Photonics in Pharmaceuticals, Bioanalysis and Environmental Research, Wiley-VCH, Weinheim-New York, 3 – 69, ISBN 978-3-527-41049-1
72. Mahendran A, Wuzella G, **Kandelbauer A** (2010) Thermal Characterization of Kraft Lignin Phenol-Formaldehyde Resin for Paper Impregnation, In: Pizzi A, Mittal K (Eds.) Wood Adhesives, 291–303, Koninklijke Brill NV, Leiden, The Netherlands, ISBN 978-90-04-19093-1
73. Weigl M, **Kandelbauer A**, Pöckl J, Müller U, Pretzl H, Grabner M (2009) Application of natural dyes in wood and paper coloration. In: Bechtold T, Mussak R (Eds.), Handbook of Natural Colourants, 277–313, John Wiley & Sons, Chichester, UK; ISBN 978-0-470-511992
74. Widsten P, **Kandelbauer A** (2009) Biotechnologische Modifikation von Lignin. In: Fachagentur Nachwachsende Rohstoffe e.V. (Ed.) Gölzower Fachgespräche Band 31 (March 10, 2009) 10–17, Bundesministerium für Ernährung, Landwirtschaft und Verbraucherschutz, Berlin, Germany, ISBN: 978-3-9803927-7-8
75. **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
76. **Kandelbauer A**, Penker A, Wuzella G, Lammer H, Gronalt M (2007) Benefits from applied research in process analysis, logistics and knowledge management for the forest based industry. In: Katalinic B (Ed.) DAAAM International Scientific Book 6, 329 – 342, DAAAM International Vienna, Austria, ISBN 3-901509-60-7
77. **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

78. **Kandelbauer A**, Gübitz GM (2004) Bioremediation for the decolorization of textile dyes - a review. In: Lichtfouse E, Schwarzbauer J; Robert D (Eds.), Environmental Chemistry, 269 – 288, Springer, Berlin Heidelberg New York; ISBN 978-3540228608
79. Binkley J, **Kandelbauer A** (2003) Effluent treatment - Enzymes in activated sludge. In: Cavaco-Paulo A, Gübitz GM (Eds.), Textile processing with enzymes, 199 – 222, Woodhead, Cambridge; ISBN 978 1 85573 610 8
80. **Kandelbauer A**, Schnitzhofer W, Kessler RW, Cavaco-Paulo A, Gübitz GM (2003) Production and immobilisation of a laccase from the white rot fungus *Trametes modesta* for application in the decolorization of textile dyes. In: Hardin IR; Akin DE; Wilson SJ, (Eds.) Advances in biotechnology for textile processing, 1 – 13, University of Georgia, USA; ISBN 0-9723620-0-2

A4.4 Other Scientific Publications (Articles in Conference Proceedings, Non-Peer-Reviewed Journals, etc.)

81. Wuzella G, Mahendran AR, Kandelbauer A, Müller U, Teischinger A (2013) Influence of thermoanalytical and rheological properties of an epoxy powder coating resin on quality of coatings using in-mold technology, in: van Benthem R, de With B (Eds.) Proceedings of 9th Coatings Science International 2013 (CoSi), June 24-28 2013, Noordwijk, The Netherlands, p43-46
82. Röhner S, Geyer B, Gad'on S, **Kandelbauer A**, Lorenz G, Dettinger U, Chassé T (2013) Reactive extrusion: Correlation of processing parameters to molecular processes, in: van Benthem R, de With B (Eds.) Proceedings of 9th Coatings Science International 2013 (CoSi), June 24-28 2013, Noordwijk, The Netherlands, p210-213
83. Jocham C, Lammer H, Müller U, Wuzella G, Kempfer M, Blatter A, Schwarz T, Schmidt TW, Hauber P, Himmelreich M, **Kandelbauer A** (2012) Pulverbeschichtung von mitteldichten Faserplatten. Hochwertige Oberflächen durch Pulverlacktechnologie – Neue Chemie senkt Aushärtungstemperaturen, Holz-Zentralblatt 34, August 24, 2012, 864
84. Jocham C, Lammer H, Müller U, Wuzella G, Kempfer M, Blatter A, Schwarz T, Schmidt TW, Hauber P, Himmelreich M, **Kandelbauer A** (2012) Aktuelle Entwicklungen, Herausforderungen und Trends bei der Pulverbeschichtung von mitteldichten Faserplatten (MDF), Tagungsband zur DFO Tagung, Deutsche Forschungsgesellschaft für Oberflächenbehandlung e. V., February 9, 2012, Bad Salzuflen, Germany, 27 – 30
85. Wuzella G, Bätge T, Müller U, **Kandelbauer A** (2011) Eigenschaftsprofil von Bauteilen aus Naturfaserverbundwerkstoffen, Tagungsband des 9. Holzwerkstoffkolloquiums, Dec. 1 – 2, 2011, Dresden, Germany, 5:01 – 5:10
86. Badila M, Dolezel-Horwath E, Zikulnig-Rusch EM, **Kandelbauer A**, Holzinger D, Schmidt T (2011) Influence of printing substrate characteristics on the quality of inkjet printed image, Proceedings of TCM Decorative Surface Conference, April 12–13, 2011, Munich, Germany, 75–80

87. Badila M, Dolezel-Horwath E, Zikulnig-Rusch EM, **Kandelbauer A**, Holzinger D, Schmidt T (2011) Influence of printing substrate characteristics on the quality of inkjet printed image, Proceedings of TCM Decorative Surface Conference, April 12–13, 2011, Munich, Germany, 75–80
88. **Kandelbauer A**, Jocham C, Wuzella G, Mahendran AR, Schwarz T (2011) Neues von der Pulververedlung Holz- und Naturfaser basierter Werkstoffe, Online-Proceedings HOLZ INNOVATIV 7. Internationales Symposium mit Fachausstellung Session 3B: Oberflächentechnologie – Möglichkeiten und Grenzen, April 07, 2011, Rosenheim, Germany, B3: 36–43
89. Kohlmayr M, Zuckerstädter G, **Kandelbauer A** (2011) Modification of melamine formaldehyde resins by substances from renewable resources, Proceedings of TCM Decorative Surface Conference, April 12–13, 2011, Munich, Germany, 143–153
90. Mahendran AR, Wuzella G, Aust N, Müller U, **Kandelbauer A** (2011) Photo-Crosslinkable vegetable oil modified resin for fiber reinforced composite and wood surface coating application, Proceedings of Coatings Science International, June 27–July 01, 2011, Noordwijk, The Netherlands, 88–90
91. Wuzella G, Mahendran AR, Bätge T, **Kandelbauer A**, Jury S, Lammer H (2011) Fiber reinforced composites and lightweight panels based on renewable resources from the wetland plant Typha, Proceedings of JEC, 2nd Innovative International Composites Summit, Biomaterials, March 29–31, 2011, Paris, France, CD-ROM
92. Wuzella G, Mahendran AR, Bätge T, **Kandelbauer A**, Teischinger A (2011) Thermal cure kinetics of carbonated triglyceride oil with ethylenediamine as curing agent to form a biobased non-isocyanate polyurethane network and its usage for the manufacturing of cork composites, Book of Abstracts of Thermosets 2011. From Monomers to Components, 21.–23.9.2011, Berlin, Germany, ISBN 978-3-8396-0312-3, 233–235
93. Wuzella G, Müller U, Bätge T, **Kandelbauer A** (2011) Eigenschaftsprofil von Bauteilen aus Naturfaserverbundwerkstoffen, Proceedings of 9. Holzwerkstoffkolloquium, 1.–2.12. 2011, Dresden, Germany, 57–68
94. 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
95. **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
96. **Kandelbauer A** (2010) Oberfläche - Dekorative Laminate und Pulverbeschichtung von Holzwerkstoffen. Proceedings of Wood School (CD-ROM), September 28 – 29, 2010, Gaming, Austria, P10, 1–46
97. Wuzella G, Mahendran AR, **Kandelbauer A**, Teischinger A (2010) Thermo-chemical kinetic analysis of the cure of bio-based resins and its application for optimization of the compression moulding process with bio-based composites, Proceedings of 8th

International Symposium "Materials made of Renewable Resources" (CD-ROM), September 9 – 10, 2010, Erfurt, Germany, S1-11, 1–5

98. Wuzella G, Mahendran AR, Bätge T, **Kandelbauer A** (2010) Novel fiber reinforced composites and lightweight sandwich panels based on renewable resource from the reed-like plant *Typha* sp., Proceedings of 4th International Conference on Environmentally-Compatible Forest Products ECOWOOD, September 8 – 10, 2010, Porto, Portugal
99. Mahendran AR, Aust N, Wuzella G, **Kandelbauer A** (2010) Synthesis and characterization of biobased resin from natural oils. Book of Abstracts of Austrian-Slovenian Polymer Meeting ASPM 2010, September 8 – 10, 2010, Leoben, Austria, 18–19
100. Kohlmayr M, Zuckerstätter G, **Kandelbauer A** (2010) Modification of melamine-formaldehyde resins by substances from biorenewable resources. Book of Abstracts of Austrian-Slovenian Polymer Meeting ASPM 2010, September 8 – 10, 2010, Leoben, Austria, 20
101. **Kandelbauer A**, Wuzella G, Mahendran AR, Taudes I, Widsten P (2010) Predictions of solid film properties derived from thermochemical kinetic analysis of raw resin formulations. Book of Abstracts of the 240th ACS National Meeting, Special Symposium in Honor of Dr. Kash Mittal, August 22 – 26, 2010, Boston, MA, USA, 429–COLL
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139. **Kandelbauer A** (2010) Pulverbeschichtung von nicht-metallischen Oberflächen, **Oral presentation** at Tag der Offenen Tür des Reutlingen Research Institute, Reutlingen, Germany, November 20, 2010
140. **Kandelbauer A** (2010) Biotechnologische Verfahren und Bio-basierte Materialien (öffentliche Antrittsvorlesung Prof. Dr. Kandelbauer), **Oral presentation**, Reutlingen, Germany, March 17, 2010
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145. **Kandelbauer A** (2007) Anwendung moderner spektroskopischer Methoden zur zerstörungsfreien Prüfung von beschichteten Holzoberflächen. **Oral presentation** at the 2nd Fachtagung Holztechnologie, Nov 6 – 7, 2007, Fellbach/Stuttgart, Germany
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