

References

1. Bride J. Australia & New Zealand pulp & paper industry guide. *APPITA Inc.* 2012.
2. Xiaorong N, Oinonen H. Non-wood still the main virgin fibre. *Pap Puu-Pap Tim.* 2007; 89: 284-286.
3. Potter C. Century turns with bagasse as the favourite. *PPI* 1996; 38, 4: 33–36.
4. Sadawarte NS. Better technology needed to clean up non-wood fibre. *PPI* 1995; 37(6): 84–93.
5. Peatow R. Zukunft der primärfaserstoffe. *Wbl. Papierfabr.* 2005; 133: 15–19.
6. Serrano O. Forest products - supply and demand. *Przegl. Papiern.* 1999; 55: 788–794.
7. Kaimowitz D. From Rio to Johannesburg and beyond. *Pap Puu-Pap Tim.* 2004; 86: 192–196.
8. McNutt JA, Rennel J. The future of fibre in tomorrow's world. *PPI.* 1997; 39(2): 48–51.
9. Tarnawski WZ. Permanently sustainable forest management. *Przegl. Papiern.* 1998; 54: 67–71 (in Polish).
10. Fornalski Z. Conditions for development of the paper industry in Poland. *Przegl. Papiern.* 2008; 64: 233–242 (in Polish).
11. Danielewicz D, Surma-Ślusarska B. Processing of industrial hemp into papermaking pulps intended for bleaching. *FIBRES & TEXTILES in Eastern Europe* 2010; 18: 6(83): 110–115.
12. Danielewicz D, Surma-Ślusarska B. Oxygen delignification and bleaching of industrial hemp pulps. *FIBRES & TEXTILES in Eastern Europe* 2011; 19, 1(84): 84-88.
13. Danielewicz D, Surma-Ślusarska B, Żurek G, Martyniak D. Selected grass plants as biomass fuels and raw materials for papermaking. Part I. Calorific value and chemical composition. *BioResources* 2015; 10: 8539-8551.
14. Danielewicz D, Surma-Ślusarska B, Żurek G, Martyniak D, Kmiotek M, Dybka K. Selected grass plants as biomass fuels and raw materials for papermaking, Part II. Pulp and paper properties. *BioResources* 2015; 10: 8552–8564.
15. Van der Werf HMG, van der Veen HJE, Bouma ATM, Ten Cate M. Quality of hemp (*Cannabis sativa* L. stems as a raw material for paper. *Ind. Crops Prod.* 1994; 2: 219–227.
16. De Groot B, Van der Kolk JC, Van Dam JEG, Van T'Riet K. Papermaking characteristics of alkaline hemp-woody-core pulps. *TAPPI J.* 1999; 82: 107–112.
17. De Groot B, Van Dam JEG, Van 't Riet K. Alkaline pulping of hemp woody core: Kinetic modelling of lignin, xylan and cellulose extraction and degradation. *Holzforschung* 1995; 49:332–342.
18. Dutt D, Upadhyaya JS, Malik RS, Tyagi CH. Studies on pulp and paper making characteristics of some Indian non-woody fibrous raw material: Part-1. *Cell. Chem. Technol.* 2005; 39: 115–128.
19. Fišerova M, Gigac J, Illa A. (2013). Soda-AQ pulping of hemp stalks and pulp properties. *Pap. Cehul.* 68: 10-13.
20. Correia F, Roy DN, Goel K. Chemistry and delignification kinetics of Canadian industrial hemp. *J. Wood Chem. Technol.* 2001; 21: 97–111.
21. Kovacs I, Rab A, Rusznak I, Annus S. Hemp (*Cannabis sativa*) as a possible raw material for the paper industry. *Cell. Chem. Technol.* 1992; 26: 627–635.
22. Zomers FHA, Gosselink,RJA, Van Dam JEG, Tjeerdsma BF. Organosolv pulping and test paper characterization of fiber hemp. *TAPPI J.* 1995; 78: 149–155.
23. Barberà L, Pèlach MA, Pérez I, Puig J, Mutjé P. Upgrading of hemp core for papermaking purposes by means of the organosolv process. *Ind. Crops Prod.* 2011; 34: 865–872.
24. Lisson SN. Studies of fibre hemp and flex pulps as a feedstock for Australian newsprint production. *APPITA J.* 2001; 54: 449–456.
25. DeJong E, Van Roekel GJ, Snijder MHB, Zhang Y. Towards industrial application of bast fibre pulps. *Pulp Pap. Canada.* 1999;100: 19–22.
26. Ekblad C, Pettersson B, Zhang J, Jernberg S, Henriksson G. Enzymatic-mechanical pulping of bast fibres from flax and hemp. *Cell. Chem. Technol.* 2005; 39: 95–103.

27. Correia F, Roy DN, Chute W. Hemp chemical pulp: a reinforcing fibre for hardwood kraft pulps. *Pulp Pap. Canada* 2003;104: 51-54.
28. Correia F, Roy DN, Goel K. Pulping of Canadian industrial hemp (*Cannabis sativa* L.). *Pulp Pap. Canada* 1998; 99: 39–41.
29. Abdul-Karim LA, Rab A, Polyánszky É, Rusznák I. Kinetics of delignification in kraft pulping of wheat straw and hemp. *TAPPI J.* 1995; 78: 161–164.
30. Dang V, Nguyen KL. Characterisation of the heterogeneous alkaline pulping kinetics of hemp woody-core. *Bioresource Technol.* 2006; 97:1353–1359.
31. Miao C, Hui LF, Liu Z, Tang X. Evaluation of hemp root bast as a new material for papermaking. *Bioresources.* 2014; 9: 132–142.
32. Mustata A. Mechanical behavior in the wet and dry stage of Romanian yarns made from flax and hemp. *FIBRES & TEXTILES in Eastern Europe* 2010; 18, 3(80): 7-12.
33. Mustata A, Mustafa FSC. Moisture absorption and desorption of flax and hemp fibres and yarns. *FIBRES & TEXTILES in Eastern Europe* 2013; 21, 3(99): 26-30.

34. PN-85/P50095.02. Fibrous papermaking semi-finished products. Determination of degree of pulping of fibrous cellulose pulp. Determination of kappa number. Polish Committee for Standardization, Warsaw, Poland, 1985.
35. ISO 5351-11. Cellulose in dilute solutions - Determination of limiting viscosity number - Part 1: Method in copper-ethylene-diamine (CED) solution, 1981.

36. ISO 2470. Paper, board and pulps – measurement of diffuse blue reflectance factor. ISO brightness. International Organization for Standardization, Geneva, Switzerland. 1999.
37. Owner's manual of MorFi apparatus, TechPap, France.
38. Wandelt P. *Technology of cellulose and paper. Technology of fibrous pulps.* WSP. Warszawa, 1996 (book).
39. Westin C, Kettunen A, Rämärk H, Kylmäla J, Laaksonen M. Experience from the start-up and operation of Kymi Paper's hydraulic digester. *Pap Puu-Pap Tim.* 2002; 84: 38–41.
40. Westin C, Kettunen A, Rämärk H, Kylmäla J, Laaksonen M, Archén S. Experiences of softwood cooking in the downflow Lo-Soilds/EAPC mode at Kuusanniemi pulp mill. *Pap Puu-Pap Tim.* 2004; 86: 218–224.
41. Kostic M, Pejic B, Skundric P. Quality of chemically modified hemp fibres. *Bioresource Technol.* 2008; 99: 94–99.
42. Dickison WC. *Integrative Plant Anatomy.* Harcourt/Academic Press, New York, NY, USA, 2000.
43. Amaducci S, Gusovius H-J. Hemp – cultivation, extraction and processing. In: Industrial application of natural fibres. Ed. by J. Müssig, A. John Wiley and Sons, Ltd., Publication, United Kingdom, 2000.
44. Amaducci S, Pelatti F, Medeghini Bonatti P. Fibre development in hemp (*Cannabis sativa* L.) as affected by agrotechnique: preliminary results of a microscopic study. *J. Ind. Hemp.* 2005; 10: 31–48.
45. Cierpucha W, Kozłowski R, Mańkowski J, Waśko J, Mańkowski T. Applicability of flax and hemp as a raw materials for production of cotton-like fibres and blended yarns in Poland. *FIBRES & TEXTILES in Eastern Europe* 2004; 12, 3(47): 13–18.
46. Tikkaja E. Fibre dimensions: their effect on paper properties and required measuring accuracy. *Pulp Pap. Canada* 1999; 100: T386-388.
47. Brindley C, Kibblewhite RP. Comparison of refining response of eucalypt and a mixed hardwood pulp and their blends with softwood. *APPITA J.* 1996; 49: 37–42.
48. Mohlin U-B, Hornatowska J. Fibre and sweet properties of *Accacia* and *Eucaluptus*. *APPITA J.* 2006; 59: 225–230.

49. Stockman L. The influence of some morphological factors on the quality of spruce sulphite and pine sulphate pulps. *Svensk Papperst.* 1962; 65: 978–982.
50. Clark JA Effects of fibre coarseness and length. I. Bulk, burst, tear, fold and tensile tests. *TAPPI J.* 1962; 45: 628–634.
51. Wangaard FF, Williams DL. Fiber length and fiber strength in relation to tearing resistance of hardwood. *TAPPI J.* 1970; 53: 2153–2154.
52. Seth RS, Page DH. Fibre properties and tearing resistance. *TAPPI J.* 1988; 71: 103–107.
53. Danielewicz D, Surma-Ślusarska B. Characterization of bleached hemp pulps with the use of computer image analysis method. *FIBRES & TEXTILES in Eastern Europe* 2011; 19, 2(85): 96–101.
54. Danielewicz D, Surma-Ślusarska B. Properties and fibre characterization of bleached hemp, birch and pine pulps: a comparison. *Cellulose* 2017; 24: 5173-5186.
55. Paavilainen L. Importance of cross-dimensional fibre properties and coarseness for characterisation of softwood sulphate pulp. *Pap Puu-Pap Tim.* 1993; 75: 343–351.
56. Gustavsson L, Olsson S-E, Ragnar M, Saetheråsen J, Snekkenes S. The Compact solution. *PPI*, 2005; 47(10): 29-33.