BRM2130 Management in Practice - Bioenergy and Environmental Change

View Online

[1]

W. Vermerris, Genetic improvement of bioenergy crops. New York: Springer, 2008.

[2]

Robert C. Brown, Thermochemical processing of biomass (ebook). Hoboken, NJ: John Wiley & Sons, 2011 [Online]. Available: http://eu.alma.exlibrisgroup.com/view/action/uresolver.do?operation=resolveService&package_service_id=3039314910002418&institutionId=2418&customerId=2415

[3]

R. C. Brown, Thermochemical processing of biomass, vol. Wiley series in renewable resources. Oxford: Wiley-Blackwell, 2011 [Online]. Available: http://eu.alma.exlibrisgroup.com/view/action/uresolver.do?operation=resolveService&package_service_id=3037243470002418&institutionId=2418&customerId=2415

[4]

Gordon G. Allison, 'Application of Fourier Transform Mid-Infrared Spectroscopy (FTIR) for Research into Biomass Feed-Stocks', in Fourier Transforms - New Analytical Approaches and FTIR Strategies, G. Nikolic, Ed. InTech, 2011 [Online]. Available: http://www.intechopen.com/books/fourier-transforms-new-analytical-approaches-and-ftir-strategies/application-of-fourier-transform-mid-infrared-spectroscopy-ftir-for-research-into-biomass-feed-stock

[5]

N. G. H. A. Karp, Energy crops. Cambridge: Royal Society of Chemistry, 2011 [Online].

Available: http://eu.alma.exlibrisgroup.com/view/action/uresolver.do?operation=resolveService&package_service_id=3037234320002418&institutionId=2418&customerId=2415

[6]

Wiley: Chemometrics, 2nd Edition - Matthias Otto. .

[7]

M. P. Robbins, G. Evans, J. Valentine, I. S. Donnison, and G. G. Allison, 'New opportunities for the exploitation of energy crops by thermochemical conversion in Northern Europe and the UK', Progress in Energy and Combustion Science, vol. 38, no. 2, pp. 138–155, Apr. 2012, doi: 10.1016/j.pecs.2011.08.001.

[8]

P. Börjesson, 'Environmental effects of energy crop cultivation in Sweden—I: Identification and quantification', Biomass and Bioenergy, vol. 16, no. 2, pp. 137–154, Feb. 1999, doi: 10.1016/S0961-9534(98)00080-4.

[9]

D. Agar and M. Wihersaari, 'Torrefaction technology for solid fuel production', GCB Bioenergy, vol. 4, no. 5, pp. 475–478, Sep. 2012, doi: 10.1111/j.1757-1707.2011.01141.x.

[10]

S. Van Loo, J. Koppejan, and International Institute for Environment and Development, The handbook of biomass combustion and co-firing. London: Earthscan, 2010.

[11]

Deutsche Gesellschaft
fu
¨
r Sonnenenergie and ECOFYS (Firm), Planning and installing bioenergy systems: a guide for installers, architects, and engineers. Sterling, VA: Earthscan, 2005.

[12]

Bridgwater, A. V., 'The technical and economic feasibility of biomass gasification for power generation', Fuel, vol. 74, no. 5, 1995 [Online]. Available: http://www.sciencedirect.com/science/article/B6V3B-4002DTC-68/2/d31b1e7d7acb2aef55a219dc217f32fb

[13]

Samson, R. et al., 'The potential of C4 perennial grasses for developing a global BIOHEAT industry', Critical Reviews in Plant Sciences, vol. 24, no. 5, 2005 [Online]. Available: http://www.informaworld.com/10.1080/07352680500316508

[14]

The economics of climate change: The Stern review. Cambridge, UK: Cambridge University Press, 2007 [Online]. Available: http://www.hm-treasury.gov.uk/stern_review_report.htm

[15]

Radetzki, M., 'The economics of biomass in industrialized countries: An overview', Energy Policy, vol. 25, no. 6, 1997 [Online]. Available: http://www.sciencedirect.com/science/article/B6V2W-3SN6MNX-M/2/c995b1a02f70b913164bd64c202ccc0a

[16]

Berndes, G., Hoogwijk, M., and van den Broek, R., 'The contribution of biomass in the future global energy supply: A review of 17 studies', Biomass and Bioenergy, vol. 25, no. 1, 2003 [Online]. Available: http://www.sciencedirect.com/science/article/B6V22-47P8Y07-1/2/f263e45ffc5d8ffb47bee6fe79e6ce4f

[17]

Kleiner, K., 'The bright prospect of biochar', vol. Volume|, no. 0906. Nature Publishing Group, 2009 [Online]. Available: http://dx.doi.org/10.1038/climate.2009.48

[18]

N. J. Glithero, P. Wilson, and S. J. Ramsden, 'Straw use and availability for second generation biofuels in England', Biomass and Bioenergy, vol. 55, pp. 311–321, Aug. 2013, doi: 10.1016/j.biombioe.2013.02.033.

[19]

N. J. Glithero, P. Wilson, and S. J. Ramsden, 'Prospects for arable farm uptake of Short Rotation Coppice willow and miscanthus in England', Applied Energy, vol. 107, pp. 209–218, Jul. 2013, doi: 10.1016/j.apenergy.2013.02.032.

[20]

C. J. Atkinson, 'Establishing perennial grass energy crops in the UK: A review of current propagation options for Miscanthus', Biomass and Bioenergy, vol. 33, no. 5, pp. 752–759, May 2009, doi: 10.1016/j.biombioe.2009.01.005.

[21]

Duffy, M. D. and Nanhou, V. Y., 'Costs of producing switchgrass for biomass in Southern Iowa', in Trends in New Crops and New Uses, ASHS Press, 1996 [Online]. Available: http://www.hort.purdue.edu/newcrop/ncnu02/pdf/duffy-267.pdf

[22]

Nass, L.L., Pereira, P.A.A., and Ellis, D., 'Biofuels in Brazil: An overview', Crop Science, vol. 47, no. 6, 2007 [Online]. Available: http://crop.scijournals.org/cgi/content/abstract/cropsci;47/6/2228

[23]

Heaton, E. A., Long, S. P., Voigt, T. B., Jones, M. B., and Clifton-Brown, J., 'Miscanthus for renewable energy generation: European Union experience and projections for Illinois', Mitigation and Adaptation Strategies for Global Change, vol. 9, no. 4, 2004 [Online]. Available: http://dx.doi.org/10.1023/B:MITI.0000038848.94134.be

[24]

Coombs, J. and Hall, K., 'Chemicals and polymers from biomass', Renewable Energy, vol. 15, no. 1–4, 1998 [Online]. Available: http://www.sciencedirect.com/science/article/B6V4S-3V3YVYH-9/2/5e0a12d2668caa462a3c36fe52e73b7f

[25]

Prochnow, A. et al., 'Bioenergy from permanent grassland - A review: 1. Biogas', Bioresource Technology, vol. 100, 2009 [Online]. Available: http://www.sciencedirect.com/science/article/B6V24-4WR2BYV-4/2/778f32a68b5f79a9baa301acb5225a3d

[26]

G. P. Robertson et al., 'AGRICULTURE: Sustainable Biofuels Redux', Science, vol. 322, no. 5898, pp. 49–50, Oct. 2008, doi: 10.1126/science.1161525.

[27]

P. N. Mascia, J. Scheffran, and J. M. Widholm, Eds., Plant biotechnology for sustainable production of energy and co-products, vol. Biotechnology in agriculture and forestry. Heidelberg: Springer, 2010.

[28]

Venturi, P. and Venturi, G., 'Analysis of energy comparison for crops in European agricultural systems', Biomass and Bioenergy, vol. 25, no. 3, 2003 [Online]. Available: http://www.sciencedirect.com/science/article/B6V22-482YWFR-2/2/fa1a82d638c041beecc9c2958ea26b5f

[29]

Yuan, J. S., Tiller, K. H., Al-Ahmad, H., Stewart, N. R., and Stewart Jr, C. N., 'Plants to power: Bioenergy to fuel the future', Trends in Plant Science, vol. 13, no. 8, 2008 [Online]. Available: http://www.sciencedirect.com/science/article/B6TD1-4T0M62M-1/2/e7b488c2db722d360d19a0e90e8aaacf

[30]

Bridgwater, A. V. and Cottam, M. -L., 'Opportunities for biomass pyrolysis liquids production and upgrading', Energy and Fuels, vol. 6, 1991 [Online]. Available: http://pubs.acs.org/doi/pdf/10.1021/ef00032a001

[31]

Lewandowski, I., Clifton-Brown, J. C., Scurlock, J. M. O., and Huisman, W., 'Miscanthus: European experience with a novel energy crop', Biomass and Bioenergy, vol. 19, no. 4, 2000 [Online]. Available: http://www.sciencedirect.com/science/article/B6V22-41M3H0T-1/2/0edf73794793a26a5c8069fcccf134be

[32]

Demirbas, A. H. and Demirbas, I., 'Importance of rural bioenergy for developing countries', Energy Conversion and Management, vol. 48, 2007 [Online]. Available: http://www.sciencedirect.com/science?_ob=MImg&_imagekey=B6V2P-4NJX404-3-J&_cdi=5708&_user=427455&_pii=S0196890407000763&_origin=&_coverDate=08%2F31%2F2007&_sk=999519991&view=c&wchp=dGLzVlz-zSkWW&md5=d027ad0cc776ca29c4e8395af22a6993&ie=/sdarticle.pdf

[33]

M. Pogson, A. Hastings, and P. Smith, 'How does bioenergy compare with other land-based renewable energy sources globally?', GCB Bioenergy, vol. 5, no. 5, pp. 513–524, Sep. 2013, doi: 10.1111/gcbb.12013.

[34]

Chang, M. C. Y., 'Harnessing energy from plant biomass', Current Opinion in Chemical Biology, vol. 11, no. 6, 2007 [Online]. Available: http://www.sciencedirect.com/science/article/B6VRX-4PXNHW8-1/2/37f6ca75172e00dbf258c9a1c4dacc0d

[35]

Sherrington, C., Bartley, J., and Moran, D., 'Farm-level constraints on the domestic supply of perennial energy crops in the UK', Energy Policy, vol. 36, no. 7, 2008 [Online]. Available: http://www.sciencedirect.com/science/article/B6V2W-4SDFS97-3/2/6d83b3b469580979e9f

a0a7eeffb6633

[36]

Goldemberg, J., Coelho, S. T., Nastari, P. M., and Lucon, O., 'Ethanol learning curve - the Brazilian experience', Biomass and Bioenergy, vol. 26, no. 3, 2004 [Online]. Available: http://www.sciencedirect.com/science/article/B6V22-49FGMV9-2/2/a19dbe9db824510c468a04fb67aa0595

[37]

C. J. Atkinson, 'Establishing perennial grass energy crops in the UK: A review of current propagation options for Miscanthus', Biomass and Bioenergy, vol. 33, no. 5, pp. 752–759, May 2009, doi: 10.1016/j.biombioe.2009.01.005.

[38]

Rösch, C., Skarka, J., Raab, K., and Stelzer, V., 'Energy production from grassland - Assessing the sustainability of different process chains under German conditions', Biomass and Bioenergy, vol. 33, 2009 [Online]. Available: http://www.sciencedirect.com/science/article/B6V22-4V64YKF-1/2/04b45967fa6487e1cb8c1c6251542e89

[39]

McKendry, P., 'Energy production from biomass (part 1): Overview of biomass', Bioresource Technology, vol. 83, no. 1, 2002 [Online]. Available: http://www.sciencedirect.com/science/article/B6V24-44YWKMG-2/2/c47f2362a0950bc2ac19171540c3fbda

[40]

Venturi, P., Gigler, J. K., and Huisman, W., 'Economical and technical comparison between herbaceous (Miscanthus x giganteus) and woody energy crops (Salix viminalis)', Renewable Energy, vol. 16, no. 1–4, 1999 [Online]. Available: http://www.sciencedirect.com/science/article/B6V4S-3V3YWDV-70/2/f0081dfb790def30abff2992091b3d9e

[41]

Nass, L.L., Pereira, P.A.A., and Ellis, D., 'Biofuels in Brazil: An overview', Crop Science, vol. 47, no. 6, 2007 [Online]. Available: http://crop.scijournals.org/cgi/content/abstract/cropsci;47/6/2228

[42]

Stewart, C.N., 'Biofuels and biocontainment', Nature Biotechnology, vol. 25, 2007.

[43]

Prochnow, A., Heiermann, M., Plöchl, M., Amon, T., and Hobbs, P. J., 'Bioenergy from permanent grassland - A review: 2. Combustion', Bioresource Technology, vol. 100, 2009 [Online]. Available: http://www.sciencedirect.com/science/article/B6V24-4WR2BYV-5/2/9e9a478280de4b3475f3766b3f1c6dcc

[44]

Hatti-Kaul, R., Tornvall, U., Gustafsson, L., and Borjesson, P., 'Industrial biotechnology for the production of bio-based chemicals - a cradle-to-grave perspective', Trends in Biotechnology, vol. 25, no. 3, 2007 [Online]. Available: http://www.sciencedirect.com/science/article/B6TCW-4MV719J-1/2/4030ca1aeb038bc4a201a4782d67878d

[45]

J. Valentine, J. Clifton-Brown, A. Hastings, P. Robson, G. Allison, and P. Smith, 'Food vs. fuel: the use of land for lignocellulosic "next generation" energy crops that minimize competition with primary food production', GCB Bioenergy, vol. 4, no. 1, pp. 1–19, Jan. 2012, doi: 10.1111/j.1757-1707.2011.01111.x.

[46]

D. Tilman et al., 'Beneficial Biofuels--The Food, Energy, and Environment Trilemma', Science, vol. 325, no. 5938, pp. 270–271, Jul. 2009, doi: 10.1126/science.1177970.

[47]

Nonhebel, S., 'Renewable energy and food supply: Will there be enough land?', Renewable

and Sustainable Energy Reviews, vol. 9, no. 2, 2005 [Online]. Available: http://www.sciencedirect.com/science/article/B6VMY-4C5MGS4-1/2/370fb6dade53b035a2bd069adc568140