

BRM2130 Management in Practice - Bioenergy and Environmental Change

View Online



1

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

2

Robert C. Brown. Thermochemical processing of biomass (ebook). Hoboken, NJ: : John Wiley & Sons 2011.

http://eu.alma.exlibrisgroup.com/view/action/uresolver.do?operation=resolveService&package_service_id=3039314910002418&institutionId=2418&customerId=2415

3

Brown RC. Thermochemical processing of biomass. Oxford: : Wiley-Blackwell 2011.

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: Nikolic G, ed. Fourier Transforms - New Analytical Approaches and FTIR Strategies. InTech 2011. doi:10.5772/15785

5

A. Karp NGH. Energy crops. Cambridge: : Royal Society of Chemistry 2011.

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

Robbins MP, Evans G, Valentine J, et al. New opportunities for the exploitation of energy crops by thermochemical conversion in Northern Europe and the UK. *Progress in Energy and Combustion Science* 2012;**38**:138–55. doi:10.1016/j.pecs.2011.08.001

8

Börjesson P. Environmental effects of energy crop cultivation in Sweden—I: Identification and quantification. *Biomass and Bioenergy* 1999;**16**:137–54. doi:10.1016/S0961-9534(98)00080-4

9

Agar D, Wihersaari M. Torrefaction technology for solid fuel production. *GCB Bioenergy* 2012;**4**:475–8. doi:10.1111/j.1757-1707.2011.01141.x

10

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

11

Deutsche Gesellschaft
fu

r Sonnenenergie, 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* 1995;**74**
.http://www.sciencedirect.com/science/article/B6V3B-4002DTC-68/2/d31b1e7d7acb2aef55

a219dc217f32fb

13

Samson, R., Mani, S., Boddey, R., et al. The potential of C4 perennial grasses for developing a global BIOHEAT industry. *Critical Reviews in Plant Sciences* 2005;**24**.
[.http://www.informaworld.com/10.1080/07352680500316508](http://www.informaworld.com/10.1080/07352680500316508)

14

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

15

Radetzki, M. The economics of biomass in industrialized countries: An overview. *Energy Policy* 1997;**25**
[.http://www.sciencedirect.com/science/article/B6V2W-3SN6MNX-M/2/c995b1a02f70b913164bd64c202ccc0a](http://www.sciencedirect.com/science/article/B6V2W-3SN6MNX-M/2/c995b1a02f70b913164bd64c202ccc0a)

16

Berndes, G., Hoogwijk, M., van den Broek, R. The contribution of biomass in the future global energy supply: A review of 17 studies. *Biomass and Bioenergy* 2003;**25**
[.http://www.sciencedirect.com/science/article/B6V22-47P8Y07-1/2/f263e45ffc5d8ffb47bee6fe79e6ce4f](http://www.sciencedirect.com/science/article/B6V22-47P8Y07-1/2/f263e45ffc5d8ffb47bee6fe79e6ce4f)

17

Kleiner, K. The bright prospect of biochar. 2009;**Volume|**
[.http://dx.doi.org/10.1038/climate.2009.48](http://dx.doi.org/10.1038/climate.2009.48)

18

Glithero NJ, Wilson P, Ramsden SJ. Straw use and availability for second generation biofuels in England. *Biomass and Bioenergy* 2013;**55**:311–21.
[doi:10.1016/j.biombioe.2013.02.033](https://doi.org/10.1016/j.biombioe.2013.02.033)

19

Glithero NJ, Wilson P, Ramsden SJ. Prospects for arable farm uptake of Short Rotation Coppice willow and miscanthus in England. *Applied Energy* 2013;**107**:209–18.
doi:10.1016/j.apenergy.2013.02.032

20

Atkinson CJ. Establishing perennial grass energy crops in the UK: A review of current propagation options for Miscanthus. *Biomass and Bioenergy* 2009;**33**:752–9.
doi:10.1016/j.biombioe.2009.01.005

21

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

22

Nass, L.L., Pereira, P.A.A., Ellis, D. Biofuels in Brazil: An overview. *Crop Science* 2007;**47**.
[.http://crop.sci journals.org/cgi/content/abstract/cropsci;47/6/2228](http://crop.sci journals.org/cgi/content/abstract/cropsci;47/6/2228)

23

Heaton, E. A., Long, S. P., Voigt, T. B., et al. Miscanthus for renewable energy generation: European Union experience and projections for Illinois. *Mitigation and Adaptation Strategies for Global Change* 2004;**9**.
[.http://dx.doi.org/10.1023/B:MITI.0000038848.94134.be](http://dx.doi.org/10.1023/B:MITI.0000038848.94134.be)

24

Coombs, J., Hall, K. Chemicals and polymers from biomass. *Renewable Energy* 1998;**15**.
[.http://www.sciencedirect.com/science/article/B6V4S-3V3YVYH-9/2/5e0a12d2668caa462a3c36fe52e73b7f](http://www.sciencedirect.com/science/article/B6V4S-3V3YVYH-9/2/5e0a12d2668caa462a3c36fe52e73b7f)

25

Prochnow, A., Heiermann, M., Plöchl, M., et al. Bioenergy from permanent grassland - A

review: 1. Biogas. Bioresource Technology 2009;**100**
.http://www.sciencedirect.com/science/article/B6V24-4WR2BYV-4/2/778f32a68b5f79a9baa301acb5225a3d

26

Robertson GP, Dale VH, Doering OC, et al. AGRICULTURE: Sustainable Biofuels Redux. Science 2008;**322**:49–50. doi:10.1126/science.1161525

27

Mascia PN, Scheffran J, Widholm JM, editors. Plant biotechnology for sustainable production of energy and co-products. Heidelberg: : Springer 2010.

28

Venturi, P., Venturi, G. Analysis of energy comparison for crops in European agricultural systems. Biomass and Bioenergy 2003;**25**
.http://www.sciencedirect.com/science/article/B6V22-482YWFR-2/2/fa1a82d638c041beecc9c2958ea26b5f

29

Yuan, J. S., Tiller, K. H., Al-Ahmad, H., et al. Plants to power: Bioenergy to fuel the future. Trends in Plant Science 2008;**13**
.http://www.sciencedirect.com/science/article/B6TD1-4T0M62M-1/2/e7b488c2db722d360d19a0e90e8aaacf

30

Bridgwater, A. V., Cottam, M. -L. Opportunities for biomass pyrolysis liquids production and upgrading. Energy and Fuels 1991;**6**.http://pubs.acs.org/doi/pdf/10.1021/ef00032a001

31

Lewandowski, I., Clifton-Brown, J. C., Scurlock, J. M. O., et al. Miscanthus: European experience with a novel energy crop. Biomass and Bioenergy 2000;**19**
.http://www.sciencedirect.com/science/article/B6V22-41M3H0T-1/2/0edf73794793a26a5c8069fccccf134be

32

Demirbas, A. H., Demirbas, I. Importance of rural bioenergy for developing countries. *Energy Conversion and Management* 2007;**48**

.http://www.sciencedirect.com/science?_ob=MIimg&_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

Pogson M, Hastings A, Smith P. How does bioenergy compare with other land-based renewable energy sources globally? *GCB Bioenergy* 2013;**5**:513–24.
doi:10.1111/gcbb.12013

34

Chang, M. C. Y. Harnessing energy from plant biomass. *Current Opinion in Chemical Biology* 2007;**11**

.<http://www.sciencedirect.com/science/article/B6VRX-4PXNHW8-1/2/37f6ca75172e00dbf258c9a1c4dacc0d>

35

Sherrington, C., Bartley, J., Moran, D. Farm-level constraints on the domestic supply of perennial energy crops in the UK. *Energy Policy* 2008;**36**

.<http://www.sciencedirect.com/science/article/B6V2W-4SDFS97-3/2/6d83b3b469580979e9fa0a7eefb6633>

36

Goldemberg, J., Coelho, S. T., Nastari, P. M., et al. Ethanol learning curve - the Brazilian experience. *Biomass and Bioenergy* 2004;**26**

.<http://www.sciencedirect.com/science/article/B6V22-49FGMV9-2/2/a19dbe9db824510c468a04fb67aa0595>

37

Atkinson CJ. Establishing perennial grass energy crops in the UK: A review of current

propagation options for Miscanthus. Biomass and Bioenergy 2009;**33**:752–9.
doi:10.1016/j.biombioe.2009.01.005

38

Rösch, C., Skarka, J., Raab, K., et al. Energy production from grassland - Assessing the sustainability of different process chains under German conditions. Biomass and Bioenergy 2009;**33**
.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 2002;**83**
.http://www.sciencedirect.com/science/article/B6V24-44YWKMKG-2/2/c47f2362a0950bc2ac19171540c3fbda

40

Venturi, P., Gigler, J. K., Huisman, W. Economical and technical comparison between herbaceous (Miscanthus x giganteus) and woody energy crops (Salix viminalis). Renewable Energy 1999;**16**
.http://www.sciencedirect.com/science/article/B6V4S-3V3YWDV-70/2/f0081dfb790def30abff2992091b3d9e

41

Nass, L.L., Pereira, P.A.A., Ellis, D. Biofuels in Brazil: An overview. Crop Science 2007;**47**
.http://crop.scijournals.org/cgi/content/abstract/cropsci;47/6/2228

42

Stewart, C.N. Biofuels and biocontainment. Nature Biotechnology 2007;**25**.

43

Prochnow, A., Heiermann, M., Plöchl, M., et al. Bioenergy from permanent grassland - A review: 2. Combustion. Bioresource Technology 2009;**100**

[.http://www.sciencedirect.com/science/article/B6V24-4WR2BYV-5/2/9e9a478280de4b3475f3766b3f1c6dcc](http://www.sciencedirect.com/science/article/B6V24-4WR2BYV-5/2/9e9a478280de4b3475f3766b3f1c6dcc)

44

Hatti-Kaul, R., Tornvall, U., Gustafsson, L., et al. Industrial biotechnology for the production of bio-based chemicals - a cradle-to-grave perspective. *Trends in Biotechnology* 2007;**25**
[.http://www.sciencedirect.com/science/article/B6TCW-4MV719J-1/2/4030ca1aeb038bc4a201a4782d67878d](http://www.sciencedirect.com/science/article/B6TCW-4MV719J-1/2/4030ca1aeb038bc4a201a4782d67878d)

45

Valentine J, Clifton-Brown J, Hastings A, et al. Food vs. fuel: the use of land for lignocellulosic 'next generation' energy crops that minimize competition with primary food production. *GCB Bioenergy* 2012;**4**:1–19. doi:10.1111/j.1757-1707.2011.01111.x

46

Tilman D, Socolow R, Foley JA, et al. Beneficial Biofuels--The Food, Energy, and Environment Trilemma. *Science* 2009;**325**:270–1. doi:10.1126/science.1177970

47

Nonhebel, S. Renewable energy and food supply: Will there be enough land? *Renewable and Sustainable Energy Reviews* 2005;**9**
[.http://www.sciencedirect.com/science/article/B6VMY-4C5MGS4-1/2/370fb6dade53b035a2bd069adc568140](http://www.sciencedirect.com/science/article/B6VMY-4C5MGS4-1/2/370fb6dade53b035a2bd069adc568140)