

CONTENTS

Original Research Articles

- 1 **Yields of *Miscanthus × giganteus* and *Panicum virgatum* decline with stand age in the Midwestern USA**
Rebecca A. Arundale, Frank G. Dohleman, Emily A. Heaton, Justin M. McGrath, Thomas B. Voigt and Stephen P. Long
- 14 **Global simulation of bioenergy crop productivity: analytical framework and case study for switchgrass**
Shujiang Kang, Sujithkumar Surendran Nair, Keith L. Kline, Jeffrey A. Nichols, Dali Wang, Wilfred M. Post, Craig C. Brandt, Stan D. Wullschleger, Nagendra Singh and Yaxing Wei
- 26 **Effects of ecotypes and morphotypes in feedstock composition of switchgrass (*Panicum virgatum* L.)**
Hem S. Bhandari, Dennis W. Walker, Joseph H. Bouton and Malay C. Saha
- 35 **Projecting future grassland productivity to assess the sustainability of potential biofuel feedstock areas in the Greater Platte River Basin**
Yingxin Gu, Bruce K. Wylie, Stephen P. Boyte and Khem P. Phuyal
- 44 **Damaged forests provide an opportunity to mitigate climate change**
Patrick Lamers, Martin Junginger, Caren C. Dymond and André Faaij
- 61 **Influence of biofuel crops on mosquito production and oviposition site selection**
Ephantus J. Muturi, Joseph L. Spencer and Brian F. Allan
- 67 **Aboveground productivity and soil carbon storage of biofuel crops in Ohio**
Catherine L. Bonin and Rattan Lal
- 76 **Can biochar reduce soil greenhouse gas emissions from a *Miscanthus* bioenergy crop?**
Sean D. C. Case, Niall P. McNamara, David S. Reay and Jeanette Whitaker
- 90 **Assessment of leaf/stem ratio in wheat straw feedstock and impact on enzymatic conversion**
Heng Zhang, Jonatan U. Fangel, William G.T. Willats, Michael J. Selig, Jane Lindedam, Henning Jørgensen and Claus Felby