

CONTENTS

TECHNOLOGY FOR GROWING BIOENERGY CROPS FOR THE PRODUCTION OF VARIOUS BIOFUELS

<i>Butov V., Kotsyurubenko N., Ogloblina V.</i> Influence of mineral fertilizers and methods of their bringings on the productivity of sugar beets in the conditions of tiny irrigation	15
<i>Vlaschuk A., Voytashenko D., Demchenko N.</i> Long-term productivity of sorghum under irrigation in the southern steppes of Ukraine	20
<i>Humentyk M., Khivrich A., Kwak V., Zamoyski, A.</i> Effectiveness of ways to protect against debris on the growth and development of plants miscanthus in the western part of Steppe of Ukraine	24
<i>Doronin V., Kravchenko Y., Busol M., Doronin V.</i> Switchgrass seeds quality depending on sorting methods	28
<i>Dudchenko V., Marushchak H.</i> Rice straw and husks as a raw for biofuels production depending on fertilization and seed rate	32
<i>Dumych V., Zhurba G., Kurylo V.</i> Technical and technological measures to lay down energy plantings of switchgrass in Woodlands of Ukraine	37
<i>Dumych V., Zhurba G., Kurylo V.</i> Dynamics of switchgrass growing withing the climatic and ground conditions of Woodlands of Ukraine	43
<i>Zinchenko O.</i> The evaluation of the effect of plants growth regulators on the photosynthesis intensity, rootage and morphological indices of <i>Miscanthus giganteus</i>	47
<i>Ivanina V., Sytko A., Sinchuk G., Strilets O., Zatserkovna N.</i> The influence of nitrogen fertilizers on bioenergetics productivity of sugar sorghum	51
<i>Korneeva M., Ermantraut E., Nenka M.</i> Comparative assessment of parent component world sugar hybrids of sugar beet for feedback on a regulated environmental factors	54
<i>Kuntsyo I., Gumentyk Y.</i> Energy willow growing as a raw stuff for the solid biofuel production in steppe of Ukraine	59
<i>Kurgak V., Levkovsky A., Efremova G., Leschenko O.</i> Bioenergy potential of perennialherbosaof Ukraine	63
<i>Kurylo V., Hanzhenko O., Duboviy J., Makarenko A.</i> Energy efficiency of sugar beet, depending from plants population	68
<i>Kurylo V., Zhurba G.</i> Dinamics of growing <i>Salix</i> spp. during the first year of growing in ground and climatic conditions of Woodlands of Ukraine	74
<i>Layko I., Vyrovets V., Kyrychenko H., Mischenko S., Kmets I.</i> New in ways of increasing of genetic potential of hemp of power tendency use	79
<i>Mandrovska S.</i> Switchgrass (<i>Panicum virgatum</i> L.) - a promising introduced plant for the production of biofuels in the forest-steppe zone of Ukraine	82
<i>Mozharivska I.</i> The technology of growing of such energy crops for the production of different types of biofuel	85

<i>Nevmerjitska O., Nurmukhammedov A., Vasilyeva N.</i>	
Searching microorganisms for biodegradation cellulose-containing raw materials from recycled resources and agricultural waste	90
<i>Orlov S.</i>	
Display of biological and economic features of switchgrass (<i>Panicum virgatum</i>) and developing new varieties with high energy value in the forest-steppe zone of Ukraine	93
<i>Palamarchuk V., Polishchuk M., Polishchuk I., Kolesnik O., Palamarchuk O.</i>	
Effect of technology elements on the development of corn for bioethanol production	96
<i>Remenyuk S.</i>	
Monitoring of swallow-wort in agricultural crops	101
<i>Royk N., Bech N., Kotsar M.</i>	
Getting seedlings <i>Miscanthus x giganteus</i> by method of clonal micropropagation	104
<i>Rudik A.</i>	
Bioenergy estimation of complex use of oily flax produce	108
<i>Sichuk L., Kitsyuk V., Tcherevko T.</i>	
Perspectives sugar beet cultivation for the production of biofuels in the Western Forest Steppe	112
<i>Storozhyk L.</i>	
Content of chloroplasts in leaves of sugar sorghum plants and their role in the process of photosynthesis	114
<i>Tsvey J., Bondar S., Dubovoy U.</i>	
The impact of the fertilizer grain crop rotation on crop husbandry by-product of winter wheat in the forest-steppe zone of Ukraine	118
<i>Shevchuk R., Rovna H., Kiryanchuk K.</i>	
Influence nitrogen fertilizer on productivity <i>Sylphium perfoliatum</i> for growing on the solid biofuels	121
<i>Yalanskiy O., Ostapenko S., Sereda V.</i>	
Prospects of introduction of highly productive hybrids of saccharine sorghum in bioenergetics	124

RECYCLING AND USE OF BIOMASS

<i>Voitov V., Bondarenko M., Bunetsky V.</i>	
Raw vegetable processing in solid fuel	129
<i>Vyshnevska O., Dmytrenko T., Tuguyeva I., Didkivskyy S.</i>	
Empirical determination of biogas emission from permanent grasses vegetative mass	134
<i>Drukovanuy M., Dushkant L.</i>	
Tehnological lines on payment of biogas and biological organic fertilizer for grown environmentally clean agricultural products	139
<i>Dumych V., Kurylo V.</i>	
Analysis of constructions of wood chippers	143
<i>Klymchuk O.</i>	
Efficiency of the complex use of corn is in bioenergetics	150
<i>Kuznetchsova I.</i>	
Stem stevia (<i>Stevia rebaudiana</i> Bertoni) of dry use of in pellet production	155
<i>Sereda L., Cherniavskiy M.</i>	
Collecting biogas and liquid bio-fertilizers during biomass processing at mobile machine	158
<i>Tretyak V., Bolbut V., Ganzhenko O., Mazurenko A.</i>	
Effective use of phytogenous fuel for supplying combustion engines of agricultural machinery	163

ECOLOGICAL AND ECONOMIC ASPECTS OF BIOFUEL PRODUCTION

<i>Gutsalenko L., Fabiyanska V.</i> Condition and main factors of development production of biofuels in Ukraine and the world	168
<i>Guzalenko O., Korpanyuk T.</i> Ecological and economic aspects of the production of biofuels in the context of the energy-saving policy of the state	174
<i>Doronin A.</i> The competitiveness formation of alternative fuels in the context of agricultural development strategy in Ukraine	181
<i>Koval L., Kytaichyk T.</i> Insurance as a means of ensuring sustainable production of biofuels and its accounting	188
<i>Koval O., Lepetan I.</i> Growth of Functional Importance of Biological Assets	191
<i>Kolyadenko S., Kolyadenko D.</i> Problems and prospects of Ukrainian and world biofuels market	195
<i>Kurylo V., Humentyk M., Kopak O.</i> The current state of production and use of bioethanol in Brazil and in the world	199
<i>Mazur V., Tsytsyura Ja.</i> Prospects of production of high-energy cultures and estimation of biopower potential of the Vinnytsya region	203
<i>Marchuk U., Chudak L.</i> Crop production as a strategic resource of Ukrainian energy	208
<i>Pravduyk O., Nastenko M.</i> Functions and principles of financial policy	212
<i>Pryshliak V., Pryshliak N.</i> Technico-economic and environmental aspects of bioethanol production in Ukraine	219
<i>Skoruk O., Tokarchuk D.</i> Biogas in Ukraine: economic and technological perspectives	226
<i>Tkachuk O.</i> The economic and environmental assessment of production technologies <i>Galega orientalis</i> as bioenergy and forage crop	230

LEGAL AND REGULATORY BASE UKRAINE AND THE EU PRODUCTION AND USE OF BIOFUELS

<i>Plakhtiy T., Dachuk V.</i> Legislative regulation of tax stimulation for growing bioenergy crops, production and use of	235
<i>Sinchenko V., Humentyk M., Balykina V.</i> Situation and development in the bioenergy applicable law bioenergy development under effectual legislation	239
<i>Masur A., Tsihanovska V., Hontaruk J.</i> Study on the efficiency of biogas distilleries Vinnitsa region	245