

# *ENERGY TECHNOLOGIES AND RESOURCE SAVING*

*Scientific-Technical Journal*

Founded in January, 1960. Comes out 4 times a year

## *№ 3, 2016*

### Contents

#### Fuel and Energetics

- 3** Karp I.M., Sigal I.Ya., Smikhula A.V., **Duboshiy O.M.** The Problem of Change Anthracite and Lean Coal Project for Thermal Power Plants of Ukraine (Review)
- 13** Makarova K.V., Savitskiy D.P., Makarov A.S., Sadovskiy D.Yu. Influence of Stabilization Technologies on Rheological Properties and Stability of Coal-Water Suspensions
- 18** Klymenko V.V., Kravchenko V.I., Lychuk M.V., Soldatenko V.P. Experimental Evaluation of the Manufacture of Solid Biofuels from Composites Based on Vegetable Waste

#### Energy Saving Technologies

- 25** Zhovtyansky V.A., Orlyk V.N., Petrov S.V., Iakymovych M.V. The General Principles of Waste Processing with Recovery of their Energy Potential on the Basis of Plasma Technologies. Part II. Gasification of the Sewage Sludge of Wastewater Treatment Plants

#### Raw Materials Processing and Resource Saving

- 43** Onopa L.R., Pyatnichko A.I., Zhuk G.V., Ivanov Yu.V. Natural Gas Internal Energy Using for Helium Concentrate Recovery from it

#### Wastes Purification and Processing

- 52** Chernysh Ye.Yu. Modeling Oxidative Capacity of Biofilm Immobilized on Granular Phosphogypsum During Gas Purification

#### Environment Protection

- 59** Volchyn I.A., Raschepkin V.A. Assessment of Acoustic Waves Attenuation in the Dusted Flows in the Boilers of Thermal Power Plants

#### Devices and Equipment

- 68** Kushneruk V.I., Braverman V.Ya., Bukraba M.A., Chelidze D.I. Thermal-Physical Design of Paraffin-Based Heat Accumulator

**Отв. секретарь** — Агеева Валентина Константиновна  
**Ведущий редактор** — Светная Е.Н.  
**Оригинал-макет** — к.т.н., н.с. Агеев К.В.

Материалы номера утверждены Ученым советом Института газа НАНУ, протокол № 11 от 16.09.16.

Подписано в печать 3.11.16. Формат 84×108/16. Бумага мел. Печ. офс. Тираж 300 экз.  
 Напечатано ООО «Лазурит Полиграф», ул. Леваневского 8/7, 03058 Киев, Украина, тел.: (044) 417 21 70