

Proposals for cooperation
of the the department of Technologies of Oil, gas and
solid fuel processing of NTU “KhPi”

Department of Technology of Oil, Gas and Solid fuel
processing

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Speciality - Technologies of Oil, Gas and Solid fuel
processing

Research areas:

- Producing of alternative fuel by refining of petroleum and polymer waste
- Oil refinery
- Coke industry
- Coal gasification
- Producing of syngas
- Sewage treatment, utilization and processing of petroleum and coal waste
- Refining of motor oil.

The most significant findings and results are represented in the following publications:

1. S. Slobodskoy. Methods of reducing the sulfur content of coke: theory and practice (survey). – Coke and chemistry. – vol.6, 2005
2. A. Tulskaya, G. Tulskiy, L. Skatkov, V. Gomofov, S. Deribo. Electrochemical synthesis of hydrogen with depolarization of the anodic process. – Electrochemical Energy Technol. 2016. – vol 2. – pp.13–16
3. D.Bilets, P. Karnojitskiy, A. Borisenko. [К вопросу о повышении экологичности коксохимических производств](#) (On the improving of ecological compatibility of coke plants). - Украинский государственный научно-исследовательский углехимический институт, Украинская научно-промышленная ассоциация. – № 2. – 2014. – с.27-30
4. Ammar W. Saeed. Patterns mass transfer process of oils of hydrocracking and a gidrogenoliz of hydrocarbons in rotor hydrocavitational devices. – Doctoral dissertation for the degree of Candidate of Science. – Kharkov. – 2016. – 157 p.
5. A. Tulskaya. The depolarization of the anodic process by SO_2 in the electrochemical synthesis of hydrogen. Doctoral dissertation for the degree of Candidate of Science. – Kharkov. – 2015. – 145 p.

6. Alexey Mardupenko, Andrey Grigorov, Irina Senkevich. Technological processing of oil waste. – Oil and Gas research.– №2 – vol.2, 2016
7. I. Lavrova, Ammar W. Saeed. Исследование влияния кавитационной обработки на качественные показатели водомазутных эмульсий (Investigation of the influence of cavitation treatment on the water-oil emulsion quality) . – Вісник Національного технічного університету ,2014 – № 7. – с.157 - 162

Proposals for cooperation

- Investigation of producing of alternative fuel including hydrogen economy
- Investigation of **petroleum extraction processes**
- Oil refinery processes
- Coke industry
- Producing of syngas
- Sewage treatment, utilization and processing of petroleum and coal waste, including sulphur and nitrogen oxides
- Refining of motor oil