

And specifically:

- sells government securities on the open market — thus causing a reduction in the reserves of commercial banks and current accounts of households paying for these securities. This reduces the commercial banks' lending capacity and leads to a reduction in the money supply;

- raises the base interest rate — this causes commercial banks to stop borrowing from the central bank and raise interest rates on their loans, which leads to restraining the growth of the money supply;

- raises the bank's required reserve requirement rate — this leads to a reduction in the money multiplier and limits the growth of the money supply.

In conclusion, it should be said that based on the current economic situation both in the country and in the states that directly affect the economy of this country, the central bank chooses the type of monetary policy pursued in order to promote sustainable and balanced development of the economy.

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## **INNOVATION SOLUTIONS TO ENVIRONMENTAL PROBLEMS**

### **Иновационные решения экологических проблем**

The year 2022 has shown how much global warming can threaten us. A good example is the fall of the mass of ice sheets. In June 2022, experts from the University of Maine, British Antarctic Research and Imperial College London came to the conclusion that Antarctic glaciers began to retreat at an unprecedented level over the past 5.5 thousand years. That's why, according to a recent study by Washington University in St. Louis. Red bricks can be converted into energy-saving devices that can be charged to store electricity.

The purpose of the article is to explain the work of chemical processes in the development of a supercapacitor using a brick hematite microstructure as a reagent for vapor deposition of nanofiber deposition from a conductive polymer poly (PEDOT). Vapor-phase synthesis leads to the production of PEDOT coatings with high electrical conductivity and free charge transfer, which makes them an exemplary method of generating electricity. Demonstrate analogs of the electricity substitute and provide for their implementation in the future.

The result of the study is the transformation of the fired brick into a PEDOT coating. by dissolving iron oxide with hydrochloric acid vapors. As previously reported, partially

dissolved nuclei undergo oxidative radical polymerization. Control over all of the above reactions leads to the production of PEDOT coatings of various thicknesses "We assume that this can become a reality when you connect our bricks with solar panels — this may require 50 bricks in the immediate vicinity of the load. These 50 bricks will be enough for emergency lighting for five hours.

This work demonstrates how to accumulate energy on the surface of an ordinary brick. The structural stability of the brick and the open microstructure lead to the creation of mechanically strong brick electrodes with PEDOT coating, which, when alternately connected and coated with epoxy resin, form an invariable fixed moisture-proof supercapacitor module. Our development of supercapacitors increases the importance of “cheap” building material and demonstrates a scalable process that guarantees energy storage to power embedded micro-appliances in construction applications using fired bricks.

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## **MODERN TRENDS IN THE DEVELOPMENT OF THE WORLD ECONOMY**

### **Современные тенденции развития мировой экономики**

Today, the modern world economy is developing at a rapid pace. Economic ties between countries are getting closer every day. Trends in the development of the world economy have features of the world economy, characteristics of the future development of mankind. Banks and various financial organizations have begun to play an increasingly important role in economic relations. The introduction of new technologies, colossal information flows and the development of processors are the most powerful engines of the modern world economy.

The cooperation of many countries is mainly involved in the development of the international economy: globalization, post-industrialization and foreign economic liberalization. Globalization is a process that captures human life as a result of communication, exchange of products and products distribution. As a consequence of generalization, the whole world becomes interconnected, as does the spread of processes. Thanks to this rapid pace, world trade is developing. Countries put their goods on the world market, thereby trying to reduce the price on the market. But, as in any dimension, the global situation has a number of disadvantages:

1. Consumer attachment to one brand, one of the individual products (Apple gadgets, McDonalds, SONY, etc.).