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The invention refers to the inorganic chemistry and radio-chemistry for preparation of hydrogen that is used in the chemical industry and power engineering.

Summary of the invention consists in the lanthanum cobaltate utilization as catalyst of water radiolysis $\text{LaCoO}_3(\text{La}_2\text{O}_3 \cdot \text{Co}_2\text{O}_3)$.

The result of the invention consists in increasing the catalytic activity.

The radiolytic yield of the hydrogen in the case of LaCoO_3 utilization increases by 35,2 times in comparison with the uncatalyzed water and by 1,8 times in comparison with Ni_2O_3 (the analogue).

Claims: 1

Fig.: 3