

Method for deactivating antibiotics from aqueous solutions using glow discharge generated at atmospheric pressure

About technology

The subject of the offer is a method of decomposing antibiotics using a glow discharge specified in the invention, generated at atmospheric pressure, in contact with an aqueous solution – a liquid in which antibiotics are dissolved, in a flow system.

The essence of the method of decomposing antibiotics dissolved in aqueous solutions using non-thermal atmospheric plasma is that antibiotics, especially those from the tetracycline and chloramphenicol groups, are decomposed as a result of treating the aqueous solutions containing them with cold plasma generated by the use of a pm-rf-APGD type glow discharge.

invention can be used particular in sewage treatment plants municipal, medical for pharmaceutical waste water or from specialist laboratories for decomposition and deactivation of antibiotics, primarily from tetracycline and chloramphenicol groups.



Research Team

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IP Protection

The invention is the subject of polish patent application: **P. 438360**

Implementation progress

TRL 4 –Technology validated in laboratory conditions

Cooperation opportunities

- Licensing agreement
- Transfer of ownership
- Spin off