

Review of: "An Experimental Method to Calculate Average Metal Ions Charge by Electrolysis at Different Temperatures"

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Potential competing interests: No potential competing interests to declare.

Review of paper entitled "An Experimental Method to Calculate Average Metal Ions Charge by Electrolysis at Different Temperatures" by M.V. Yarmolenko. (Qeios)

Yarmolenko reported an experimental method to calculate the average charge of copper, iron, and aluminium ions by electrolysis at room temperature and 100 °C. Direct electric current and mass loss of the anode were measured in NaCl solution, which was used to calculate the average charge of metal ions. This method is easy and feasible, which can be used to assess the transfer charge of metal ions, as well as clarify some experimental phenomena and electrochemistry mechanism. However, many results described simply and lack of further discussion in the paper.

1. The type and size of the electrodes used during the experiments were not mentioned in the paper. As we all know, if we want to get reliable experimental data, the type and size of electrode are very important. If possible, the detail parameters should be provided to enable readers to understand the whole idea of the system design.
2. Similarly, please give the name and model of experimental apparatus.
3. Please describe the measurement of the anode's radii in detail.
4. The application and guidance of this method should be provided.