PyPhyEIS

1. **What is PyPhyEIS?**

PyPhyEIS is the abbreviation of “Python assisted Physic-based Electrochemical Impedance Spectroscopy” analyzer. It was implemented in *Python 3* with *PyQt* framework for a friendlier user interface, integrated *Plotly* for graph visualization, and *Least-squares* optimization algorithm from SciPy.

1. **How to use PyPhyEIS?**

To run the code directly in your computer using Python commands, you will need to install Python 3.x software and some other libraries from Scipy. For people who are not familiar with a programming language like Python, an executable file named “PyPhyEIS.exe” was created in order to help you use this software by running only the executable file without needing any coding skills nor software installations. The executable file was tested on Windows 10, but technically, it can be run on any version of Windows.

The executable file is available at:

<https://github.com/thuylinhpham/PyPhyEIS/releases/download/v1.0.1/PyPhyEIS_v1.0.1-windows.rar>

More details please find in the tutorial repository.

1. **Citation**

Please cite this work as:

Pham, Thuy Linh, Lee, Jong-Sook, Python assisted Physic-based Electrochemical Impedance Spectroscopy, (2020). doi:10.5281/zenodo.3820355.

Authors: Thuy Linh Pham ([thuylinhbkhn@gmail.com](mailto:thuylinhbkhn@gmail.com)), Jong-Sook Lee ([jongsook@jnu.ac.kr](mailto:jongsook@jnu.ac.kr))

More about me: <https://thuylinhpham.github.io/>

1. **Acknowledgements**

Funding is acknowledged from the National Research Foundation (NRF) of Korea funded by the Ministry of Science and ICT (MSIT) (NRF-2018R1A5A1025224), and the ERC…

….Dr. Shin Namsoo, Dr. Shin Eui-chol, Prof. Kim Jaekook,…