

## All publications of the Functional Interfaces Research Group members:

(Author search in the Hungarian Scientific Bibliography)

<https://m2.mtmt.hu/gui2/>

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### Selected publications:

*Fundamental electrochemical processes and technologies*

*I. Felhósi\**, L. Molnárné Nagy, Sz. Horváth, T. Pozman, J. Bognár, T. Szabó, Z. Keresztes

**Corrosion Protection and Heat Resistance of Paints for Outdoor Use**

MATERIALS 16 : 7 Paper: 2753 , 16 p. (2023)

<https://doi.org/10.3390/ma16072753>

*B. Medgyes\**, A. Gharaibeh G. Harsányi, B. Pécz, *I. Felhósi*

**Electrochemical corrosion and electrochemical migration characteristics of SAC-1Bi-xMn solder alloys in NaCl solution**

CORROSION SCIENCE 213 Paper: 110965 , 12 p. (2023)

<https://doi.org/10.1016/j.corsci.2023.110965>

*T. Pajkossy\**, M. Cebelin, G. Mészáros

**Dynamic electrochemical impedance spectroscopy for the charge transfer rate measurement of the ferro/ferricyanide redox couple on gold**

JOURNAL OF ELECTROANALYTICAL CHEMISTRY 899, Paper No. 115655 (2021)

<https://doi.org/10.1016/j.jelechem.2021.115655>

*T. Pajkossy\**

**Transformation to potential-program invariant form of voltammograms and dynamic electrochemical impedance spectra of surface confined redox species**

ELECTROCHEMICAL SCIENCE ADVANCES 2021 : 1 Paper: e2000039. (2021)

<https://doi.org/10.1002/elsa.202000039>

*A. Shaban*, Gy. Vastag, *J. Telegdi*

**Metal corrosion and its inhibition mechanisms**

In: Wilkerson, Raymond (ed.) Corrosion inhibitors: An overview

New York (NY), USA : Nova Science Publishers 33-99. (2021)

ISBN: 9781685070120

*T. Pajkossy\**

**Analysis of adsorption-related voltammograms: Transformation to potential-program invariant form**

ELECTROCHEMISTRY COMMUNICATIONS 118, 106810 (2020)

<https://doi.org/10.1016/j.elecom.2020.106810>

*T. Pajkossy\**, G. Mészáros

**Connection of CVs and impedance spectra of reversible redox systems, as used for the validation of a dynamic electrochemical impedance spectrum measurement system**

JOURNAL OF SOLID STATE ELECTROCHEMISTRY 24, 2883-2889 (2020)

<https://doi.org/10.1007/s10008-020-04661-8>

*T. Pajkossy\**

**Voltammetry coupled with impedance spectroscopy**

JOURNAL OF SOLID STATE ELECTROCHEMISTRY 24, 2157-2159 (2020)

<https://doi.org/10.1007/s10008-020-04689-w>

*I. Felhősi\*, Z. Keresztes, T. Marek, T. Pajkossy*

**Properties of electrochemical double-layer capacitors with carbon-nanotubes-on-carbon-fiber-felt electrodes**

ELECTROCHIMICA ACTA 334, 135548 (2020)

<https://doi.org/10.1016/j.electacta.2019.135548>

*J. Telegdi\**

**Formation of self-assembled anticorrosion films on different metals**

MATERIALS 13(22), 5089 (2020)

<https://doi.org/10.3390/ma13225089>

*J. Telegdi\*, A. Shaban, L. Trif*

**Review on the microbiologically influenced corrosion and the function of biofilms**

INTERNATIONAL JOURNAL OF CORROSION AND SCALE INHIBITION, 9(1), 1–33 (2020)

<http://doi.org/10.17675/2305-6894-2020-9-1-1>

*T. Pajkossy*

**Dynamic electrochemical impedance spectroscopy of quasi-reversible redox systems. Properties of the Faradaic impedance, and relations to those of voltammograms**

ELECTROCHIMICA ACTA 308, 410-417 (2019)

<https://doi.org/10.1016/j.electacta.2019.03.197>

*T. Pajkossy\*, C. Müller, T. Jacob*

**The metal-ionic liquid interface as characterized by impedance spectroscopy and in situ scanning tunneling microscopy**

PHYSICAL CHEMISTRY CHEMICAL PHYSICS 20:33, 21241-21250 (2018)

<https://doi.org/10.1039/C8CP02074D>

*T. Pajkossy\**

**Analysis of quasi-reversible cyclic voltammograms: Transformation to scan-rate independent form**

ELECTROCHEMISTRY COMMUNICATIONS 90, 9-72 (2018)

<https://doi.org/10.1016/j.elecom.2018.04.004>

*T. Pajkossy\*; R. Jurczakowski*

**Electrochemical impedance spectroscopy in interfacial studies**

CURRENT OPINION IN ELECTROCHEMISTRY 1:1, 53-58 (2017)

<https://doi.org/10.1016/j.coelec.2017.01.006>

*T. Pajkossy\*, G. Mészáros, I. Felhősi, T. Marek, L. Nyikos*

**A multisine perturbation EIS system for characterization of carbon nanotube layers**

BULGARIAN CHEMICAL COMMUNICATIONS 49, 114-118 (2017)

*É. Fekete, B. Lengyel, T. Cserfalvi, T. Pajkossy\**

**Electrochemical dissolution of aluminium in electrocoagulation experiments**

JOURNAL OF SOLID STATE ELECTROCHEMISTRY 20, 3107-3114 (2016)

<https://doi.org/10.1007/s10008-016-3195-6>