

**Electrochemistry of electrodes with *fractal* surfaces:**

- L. Nyikos and T. Pajkossy: Fractal dimension and fractional power frequency dependent impedance of blocking electrodes,  
*Electrochim. Acta* **30**(11), 1533-1540 (1985), doi: [10.1016/0013-4686\(85\)80016-5](https://doi.org/10.1016/0013-4686(85)80016-5)
- T. Pajkossy and L. Nyikos: Diffusion to Fractal Surfaces - II. Verification of Theory,  
*Electrochim. Acta* **34** (2), 171-179 (1989), doi: [10.1016/0013-4686\(89\)87082-3](https://doi.org/10.1016/0013-4686(89)87082-3)
- T. Pajkossy and L. Nyikos: Scaling-law analysis to describe the impedance behaviour of fractal electrodes,  
*Phys. Rev.* **B42** (1), 709-719 (1990), doi: [10.1103/PhysRevB.42.709](https://doi.org/10.1103/PhysRevB.42.709)
- T Pajkossy, Electrochemistry of Fractal Surfaces, *Encyclopedia of Interfacial Chemistry: Surface Science and Electrochemistry*, doi: [10.1016/B978-0-12-409547-2.13306-2](https://doi.org/10.1016/B978-0-12-409547-2.13306-2)

**Electrochemistry of electrodes of *rough* surfaces:**

- T. Pajkossy: Impedance of rough capacitive electrodes,  
*J. Electroanal. Chem.* **364**, 111-125 (1994), doi: [10.1016/0022-0728\(93\)02949-I](https://doi.org/10.1016/0022-0728(93)02949-I)
- Z. Kerner and T. Pajkossy: Impedance of rough capacitive electrodes - the role of surface disorder,  
*J. Electroanal. Chem.* **448**, 139-142 (1998), doi: [10.1016/S0022-0728\(98\)00025-4](https://doi.org/10.1016/S0022-0728(98)00025-4)
- T. Pajkossy: Impedance spectroscopy at interfaces of metals and aqueous solutions - surface roughness, CPE and related issues,  
*Solid State Ionics* **176** (25-28), 1997-2003 (2005), doi: [10.1016/j.ssi.2004.06.023](https://doi.org/10.1016/j.ssi.2004.06.023)

**Double layer and anion adsorption studies in aqueous solutions:**

- T. Pajkossy, Th. Wandlowski, and D.M. Kolb: Impedance aspects of the anion adsorption on gold single crystal electrodes,  
*J. Electroanal. Chem.* **414**, 209-220 (1996), doi: [10.1016/0022-0728\(96\)04700-6](https://doi.org/10.1016/0022-0728(96)04700-6)
- T. Pajkossy and D.M. Kolb: Double layer capacitance of Pt(111) single crystal electrodes,  
*Electrochim. Acta* **46**(20-21) 3063-3071 (2001), doi: [10.1016/S0013-4686\(01\)00597-7](https://doi.org/10.1016/S0013-4686(01)00597-7)
- Z. Kerner and T. Pajkossy: Measurement of adsorption rates of anions on Au(111) electrodes by impedance spectroscopy,  
*Electrochim. Acta*, **47** (13-14) 2055-2063 (2002), doi: [10.1016/S0013-4686\(02\)00073-7](https://doi.org/10.1016/S0013-4686(02)00073-7)
- T. Pajkossy and D.M. Kolb: Double layer capacitance of the platinum group metals in the double layer region,  
*Electrochem. Comm.*, **9**, 1171-1174 (2007), doi: [10.1016/j.elecom.2007.01.002](https://doi.org/10.1016/j.elecom.2007.01.002)
- T. Pajkossy: Impedance spectra of Pt(100) in aqueous H<sub>2</sub>SO<sub>4</sub> and HCl solutions around the hydrogen adsorption-desorption peak,  
*Z. Phys. Chem.*, **226** (2012) 935-943, doi: [10.1524/zpch.2012.0243](https://doi.org/10.1524/zpch.2012.0243)

**Double layer studies in ionic liquids:**

- T. Pajkossy and D.M. Kolb: The interfacial capacitance of Au(100) in an ionic liquid, 1-butyl-3-methyl-imidazolium hexafluorophosphate, *Electrochem. Comm.*, **13** (2011) 284–286, doi: [10.1016/j.elecom.2011.01.004](https://doi.org/10.1016/j.elecom.2011.01.004)
- C. Müller, K. Németh, S. Vesztergom, T. Pajkossy, and T. Jacob: The interface between HOPG and 1-butyl-3-methyl-imidazolium hexafluorophosphate, *Phys.Chem.Chem.Phys.*, **18** (2016) 916-925, doi: [10.1039/c5cp05406k](https://doi.org/10.1039/c5cp05406k)
- C. Müller, S. Vesztergom, T. Pajkossy, and T. Jacob: Immersion measurements of potential of zero total charge (pztc) of Au(100) in an ionic liquid, *Electrochim. Acta* **188** (2016) 512-515, doi: [10.1016/j.electacta.2015.11.141](https://doi.org/10.1016/j.electacta.2015.11.141)

**Semiintegration & voltammetry:**

- T. Pajkossy and L. Nyikos: Fast algorithm for differintegration, *J. Electroanal. Chem.* **179**, 65-69 (1984), doi: [10.1016/S0022-0728\(84\)80275-2](https://doi.org/10.1016/S0022-0728(84)80275-2)
- T. Pajkossy: Potential program invariant representation of voltammetric measurement results of reversible redox couples, *J. Electroanal. Chem.* **422**, 13-19 (1997), doi: [10.1016/S0022-0728\(96\)04883-8](https://doi.org/10.1016/S0022-0728(96)04883-8)
- T. Pajkossy, Analysis of quasi-reversible cyclic voltammograms: Transformation to scanrate independent form, *Electrochem. Comm.* **90** (2018) 69, doi: [10.1016/j.elecom.2018.04.004](https://doi.org/10.1016/j.elecom.2018.04.004)

**Miscellaneous studies of physical chemistry:**

- T. Pajkossy: Mechanism of hole injection on ferric oxide photoelectrodes, *J. Electrochem. Soc.* **130** (3), 632-635 (1983), doi: [10.1149/1.2119769](https://doi.org/10.1149/1.2119769)
- E.W. Tsai, T. Pajkossy, K. Rajeshwar, and J.R. Reynolds: Anion exchange behaviour of polypyrrole membranes, *J. Phys. Chem.* **92** (12), 3560-3565 (1988), doi: [10.1021/j100323a047](https://doi.org/10.1021/j100323a047)
- Z. Kerner, T. Pajkossy, and L. Balázs: Impedance spectroscopy of halogen lamps, *ACH - Models in chemistry* **137** (2-3) 415-425 (2000)
- G. Nagy, Z. Kerner, and T. Pajkossy: In situ electrochemical impedance spectroscopy of Zr-1%Nb under VVER primary circuit conditions, *J. Nucl. Mater.* **300**, 230-236 (2002), doi: [10.1016/S0022-3115\(01\)00735-8](https://doi.org/10.1016/S0022-3115(01)00735-8)
- G. Lendvay-Győrik, T. Pajkossy, and B. Lengyel: Water uptake of water-borne paint resin films as studied by impedance spectroscopy and gravimetry, *Progress in Organic Coatings* **59**, 95-99 (2007), doi: [10.1016/j.porgcoat.2007.01.015](https://doi.org/10.1016/j.porgcoat.2007.01.015)
- I. Bakos, S. Szabó, and T. Pajkossy: Deposition of platinum monolayers on gold, *J. Solid State Electrochem.*, **15** (2011) 2453-2459, doi: [10.1007/s10008-011-1444-2](https://doi.org/10.1007/s10008-011-1444-2)
- É. Fekete, B. Lengyel, T. Cserfalvi, and T. Pajkossy, Electrochemical dissolution of aluminium in electrocoagulation experiments, *J. Solid State Electrochem.*, (2016) **20**:3107–3114; doi: [10.1007/s10008-016-3195-6](https://doi.org/10.1007/s10008-016-3195-6)