What is «solid state and interfacial electrochemistry”?

Introduction to poster session
Preliminary classification

P1, P6

Solid state chemistry and physics

Electrode
(electronic or mixed conductor) P13, P15-P17

Interface P24

Electrolyte
(ionic conductor)

solid liquid
P8, P10 P18! P19
P11, P14

“Soft matter” (e.g. polymers)
Classification: techniques 1 (spectroscopy and microscopy)

X-ray and neutron related techniques

Electronic structure/transport
Ionic transport

Electrode (electronic or mixed conductor)

Interface
STS Electron Transfer
XPS Adsorption STM, AFM

Electrolyte (ionic conductor)

NMR!! UV-Vis

DEMS
IR, Raman

photoemission

ionic transport

Solvation

UV-Vis

Dielectric spectroscopy
Classification: techniques 2 (electrochemical)

Current or potential transients → Coulometry ← Voltammetry

Electrode (electronic or mixed conductor)

Interface

Electrolyte (ionic conductor)
solid liquid

Electronic structure/transport
Ionic transport

Interfacial processes:
- Intercalation
- Adsorption
differential capacity

Electroanalysis
- Coulometry
- Voltammetry
- Impedance spectroscopy
- Impedance measurements
- Conductivity measurements
- RDE, RRDE

Ionic transport
Solvation
Be careful with terminology!

Charge transfer in polar medium = ?

http://www.elch.chem.msu.ru/mole/ will operate constantly,
- to answer your questions,
- to recommend you scientific literature,
- to inform you about electrochemical events.
Beer is very important for scientific discussion.