



PETA KONSEP CONCEPT MAP

Elektrokimia Electrochemistry

Kajian dalam bidang kimia tentang hubung kait antara tenaga elektrik dengan tenaga kimia.
A study in chemistry of the relationship between electrical energy and chemical energy.

Sel elektrolitik Electrolytic cell

Komponen / Component

- Anod / Anode
- Katod / Cathode
- Anion / Anion
- Kation / Cation
- Elektrolit / Electrolyte
- Sumber elektrik / Source of electricity

Tenaga elektrik → Tenaga kimia
Electrical energy → Chemical energy

- Pengekstrakan logam
Extraction of metal
- Penulenan logam
Purification of metal
- Penyaduran logam
Electroplating of metals
- Elektro-pengumpulan
Electrocoagulation

Elektrolisis leburan sebatian ion
Electrolysis of molten ionic compound

Elektrolisis larutan
aqueus sebatian ion
*Electrolysis of ionic
compound in aqueous
state*

Aplikasi elektrolisis
dalam industri
*Application of electrolysis
in industries*

Hasil elektrolisis
dipengaruhi oleh
*Product of electrolysis are
affected by*

Kedudukan
ion dalam siri
elektrokimia
*Position of ion in
electrochemical
series*

Jenis
elektrod
*Type of
electrode*

Kepekatan elektrolit
Concentration of electrolyte

Sel kimia Chemical cell

Komponen / Component

- Dua jenis logam yang berlainan
Two different metals
- Elektrolit / Electrolyte

Tenaga kimia → Tenaga elektrik
Chemical energy → Electrical energy

Perubahan
kimia
Chemical change

- Anod logam menderma elektron.
Metal anode donates electrons.
- Ion yang kurang elektropositif dalam elektrolit menerima elektron di katod.
Ion that is less electropositive in electrolyte receives electrons at cathode.