

## SUBJECT INDEX

---

*Volume 2, issue 1, pp. 1 - 120, of the journal was published as a special issue devoted to Lead-Acid Batteries and its contents have not been included in the index below.*

- Acid oxygen carbon electrodes
  - electrochemical measurements and surface studies on, by use of ESCA method, 183
- Antimonial positive grids
  - cells with, 301
- Catalyst
  - silver, in hydrophobic oxygen electrode, 273
- Catalytic activity
  - of double layer diffusion electrodes for reduction of oxygen in acid electrolytes, influence of carrier material on, 361
- Corrosion life tests
  - accelerated, of  $\text{PbO}_2$  electrode, evaluation of cyclic voltammetry for, 241
- Current efficiency
  - in lithium-water battery, 163
- Cyclic voltammetry
  - evaluation of, for accelerated corrosion life tests of  $\text{PbO}_2$  electrode, 241
- Discharge mechanism
  - of silver/alkylammonium polyiodide solid state cells, 389
- Electrocatalysis
  - of oxygen reduction process on metal chelates in acid electrolyte, 233
- Electrocatalyst
  - for reduction of oxygen in acidic electrolyte, polymeric iron phthalocyanine as, 351
- Electrode(s)
  - acid oxygen carbon, electrochemical measurements and surface studies on, by use of ESCA method, 183
  - coated rechargeable zinc, preparation and properties of, 177
  - double layer diffusion, for reduction of oxygen in acid electrolytes, influence of carrier material on, 361
  - hydrophobic oxygen, silver catalyst in, 273
  - of lead-acid cell, passivation reactions on, 369
  - $\text{PbO}_2$ , evaluation of cyclic voltammetry for accelerated corrosion life tests of, 241
- Energy storage system
  - electrochemically regenerative hydrogen-chlorine, for electric utilities, 191
- ESCA method
  - electrochemical measurements and surface studies on acid oxygen carbon electrodes by use of, 183
- Expander action
  - at  $\text{Pb}(\text{Hg})/\text{PbCl}_2$  interface, 137
- Grids
  - antimonial positive, cells with, 301
  - battery, lead-strontium alloys for, 337
  - cast lead-calcium, cells with, 317
- Hydrogen-chlorine energy storage system
  - electrochemically regenerative, for electric utilities, 191
- Hydrophobic oxygen electrode
  - silver catalyst in, 273
- Ionic solids
  - $\text{AgI-Ag}$  oxysalt, thermoelectric power of, 257
- Iron-air vehicle battery, 287
- Iron phthalocyanine
  - polymeric, as electrocatalyst for reduction of oxygen in acid electrolyte, 351
- Lead-acid batteries
  - passivation reactions on electrodes of, 369
  - science and technology, review, 3
- Lead-acid battery chargers
  - cells with antimonial positive grids, 301
  - cells with cast lead-calcium grids, 317

- Lead-calcium grids
  - cast, cells with, 317
- Lead-strontium alloys
  - for battery grids, 337
- Lithium-copper molybdate system
  - organic solvent batteries, 265
- Lithium-copper tungstate system
  - organic solvent batteries, 265
- Lithium solid-state cell
  - based on  $\text{Li}_3.75\text{S}_{0.75}\text{P}_{0.25}\text{O}_4$  electrolyte, 387
- Lithium-water battery
  - current efficiency in, 163
  
- Nickel-cadmium batteries
  - for spacecraft, thermal simulation of, 147
  
- Ohmic drop
  - techniques for determination of, in half-cells and full cells: review, 121
- Oxygen reduction
  - electrocatalysis of, on metal chelates in acid electrolyte, 233
  - influence of carrier material on catalytic activity of double layer diffusion electrodes for, 361
  - polymeric iron phthalocyanine as electrocatalyst for, in acidic electrolyte, 351
- Oxysalt ionic solids
  - AgI-Ag, thermoelectric power of, 257
- Passivation reactions
  - on electrodes of lead-acid cell, 369
  
- Photovoltaic solar energy
  - conference report, 297
- Polymeric iron phthalocyanine
  - as electrocatalyst for reduction of oxygen in acidic electrolyte, 351
  
- Silver/alkylammonium polyiodide solid state cells
  - discharge mechanism of, 389
- Silver catalyst
  - in hydrophobic oxygen electrode, 273
- Solar energy
  - photovoltaic: conference report, 297
- Spacecraft
  - thermal simulation of NiCd batteries for, 147
  
- Thermal simulation
  - of NiCd batteries for spacecraft, 147
- Thermoelectric power
  - of AgI-Ag oxysalt ionic solids, 257
- Titanium
  - and its alloys and compounds, possible use of, as active materials in batteries: review, 201
  
- Vehicle battery
  - iron-air, 287
  
- Zinc electrode
  - coated rechargeable, preparation and properties of, 177