

SUBJECT INDEX

- a.c. impedance
of Li/polymer electrolyte interface in solid-state Li cells, 157
of Mg/Mn dioxide dry cells in absence of anode-film breakdown, 51
- Aluminium
thin foil Li-Al electrode; effect of thermal treatment on its electrochemical behaviour in nonaqueous media, 71
- Anode-film breakdown
experimental and theoretical investigation of voltage transients of Mg/Mn dioxide dry cells in absence of, 295
- Battery manufacture
effect of impurities on performance of Li intended for Li/thionyl chloride, 95
- Batteries
10 kW-class advanced
performance testing of, for electric energy storage systems in Japan, 137
transient response of, to abrupt load changes, 31
large-scale polyaniline, 115
- Bromine
thermodynamic determinations for Li/thionyl chloride and Li/BrCl-thionyl chloride cells as function of temperature and depth of discharge, 229
- Cadmium sulphide
electrodes, photoelectrochemical study of screen-printed, 41
photoanodes, studies on polycrystalline, 329
-solid electrolyte photoelectrochemical solar cell, 121
- Cathodes
MoO₃, V₂O₅ and MoV₂O₈ as rechargeable, in Li cells, comparative electrochemical study of, 85
Ni oxide, in molten carbonate fuel cells, technological status of, 1
- Chromotropic acid
interaction of Fe²⁺/Fe³⁺ and Ti³⁺/Ti²⁺ with; conductometric and spectrophotometric studies, 341
- Conductometric studies
interaction of Fe²⁺/Fe³⁺ and Ti³⁺/Ti²⁺ with chromotropic acid, 341
- Copper
discharge characteristics of solid-state cells with Mg and Cu electrodes and thin-film, solid electrolyte of cuprous sulphate, 165
- Cuprous halide
mixed phase, discharge characteristics of solid-state cells incorporating thin films of, 349
- Cuprous sulphate
discharge characteristics of solid-state cells with Mg and Cu electrodes and thin-film, solid electrolyte of, 165
- Cycle life
of rechargeable Li battery, effect of discharge current on, 195
- Depth of discharge
thermodynamic determinations for Li/thionyl chloride and Li/BrCl-thionyl chloride cells as function of temperature and, 229
- Discharge characteristics
of solid-state cells
with Mg and Cu electrodes and thin-film, solid electrolyte of cuprous sulphate, 165
incorporating thin films of cuprous halide mixed phase, 349
- Discharge current
effect of, on cycle life of rechargeable Li battery, 195
- Dry cells
Mg/Mn dioxide, a.c. impedance of, in absence of anode-film breakdown, 51
- Electric energy storage systems
performance testing of 10 kW-class advanced batteries for, in Japan, 137

- Electric vehicle operations**
 statistical analysis of performance
 degradation of lead-acid battery
 under simulated, 215
- Electrochemical behaviour**
 thin foil Li-Al electrode; effect of
 thermal treatment on its, in non-
 aqueous media, 71
- Electrochemical study**
 of MoO_3 , V_2O_5 and MoV_2O_8 as re-
 chargeable cathodes in Li cells,
 comparative, 85
- Electrode(s)**
 Cd sulphide, photoelectrochemical
 study of screen-printed, 41
 Mg and Cu, discharge characteristics of
 solid-state cells with, and thin-film,
 solid electrolyte of cuprous sulphate,
 165
 Ni, surface modification of, for molten
 carbonate fuel cells, 207
 polyaniline, behaviour of, in aqueous
 and organic solutions, 185
 thin foil Li-Al; effect of thermal treat-
 ment on its electrochemical behavi-
 our in nonaqueous media, 71
- Electrode interfaces**
 investigation of; Li/LiV₃O₈ polymer
 electrolyte Li battery, 287
- Electrodeposition**
 of Zn onto graphitic C substrates from
 alkaline electrolytes, 21
- Electrolyte(s)**
 a.c. impedance studies of Li/polymer,
 interface in solid-state Li cells, 157
 Cd sulphide-solid, photoelectrochemi-
 cal solar cell, 121
 characteristics of surface films formed
 on active metals of interest in high
 energy density batteries, semicon-
 ductivity and solid, 243
 of cuprous sulphate, discharge charac-
 teristics of solid-state cells with Mg
 and Cu electrodes and thin-film
 solid, 165
- Electrolytes**
 electrodeposition of Zn onto graphitic
 C substrates from alkaline, 21
- Fuel cells**
 molten carbonate
 surface modification of Ni elec-
 trodes for, 207
 technological status of Ni oxide
 in, 1
- Gassing behaviour**
 of lead-acid negative active material
 and development of quality control
 test for Pb oxide purity, 127
- Graphitic carbon substrates**
 electrodeposition of Zn onto, from
 alkaline electrolytes, 21
- High energy density batteries**
 semiconductivity and solid electrolyte
 characteristics of surface films
 formed on active metals of interest
 in, 243
- Impurities**
 effect of, on performance of Li in-
 tended for Li/thionyl chloride
 battery manufacture, 95
- Iron**
 interaction of $\text{Fe}^{2+}/\text{Fe}^{3+}$ and $\text{Ti}^{3+}/\text{Ti}^{2+}$
 with chromotropic acid; conduc-
 tometric and spectrophotometric
 studies, 341
- Lead-acid battery**
 statistical analysis of performance
 degradation of, under simulated
 electric vehicle operations, 215
- Lead-acid cell**
 effects of phosphoric acid additions
 on behaviour of, 171
- Lead-acid negative active material**
 gassing behaviour of, and development
 of quality control test for Pb oxide
 purity, 127
- Lead oxide purity**
 development of quality control test
 for, gassing behaviour of lead-acid
 negative active material and, 127
- Lithium**
 -Al electrode, thin foil; effect of
 thermal treatment on its electro-
 chemical behaviour in nonaqueous
 media, 71
 effect of impurities on performance of
 Li intended for Li/thionyl chloride
 battery manufacture, 95
 Li/LiV₃O₈ polymer electrolyte Li
 battery; investigation of electrode
 interfaces, 287
 -SOCl₂ cell, a review, 253
 thermodynamic determinations for
 Li/thionyl chloride and Li/BrCl-
 thionyl chloride cells as function of

- temperature and depth of discharge, 229
- Lithium battery**
effect of discharge current on cycle life of rechargeable, 195
- Lithium cells**
a.c. impedance studies of Li/polymer electrolyte interface in solid-state, 157
MoO₃, V₂O₅ and MoV₂O₈ as rechargeable cathodes in, comparative electrochemical study of, 85
- Load changes**
transient response of 10-kW class advanced batteries to abrupt, 31
- Magnesium**
discharge characteristics of solid-state cells with Mg and Cu electrodes and thin-film, solid electrolyte of cuprous sulphate, 165
/Mn dioxide dry cells in absence of anode-film breakdown, a.c. impedance of, 51
experimental and theoretical investigation of voltage transients of, 295
- Manganese**
Mg/Mn dioxide dry cells in absence of anode-film breakdown, a.c. impedance of, 51
experimental and theoretical investigation of voltage transients of, 295
- Metals**
surface films formed on active, of interest in high energy density batteries, semiconductivity and solid electrolyte characteristics of, 243
- Molten carbonate fuel cells**
surface modification of Ni electrodes for, 207
technological status of Ni oxide cathodes in, 1
- Molybdenum**
comparative electrochemical study of MoO₃, V₂O₅ and MoV₂O₈ as rechargeable cathode in Li cells, 85
- Nickel**
electrodes, surface modification of, for molten carbonate fuel cells, 207
- Nickel oxide**
cathodes in molten carbonate fuel cells, technological status of, 1
- Performance degradation**
of lead-acid battery under simulated electric vehicle operations, statistical analysis of, 215
- Performance testing**
of 10 kW-class advanced batteries for electric energy storage systems in Japan, 137
- Phosphoric acid**
additions, effects of, on behaviour of lead-acid cell, 171
- Photoanodes**
Cd sulphide, studies on polycrystalline, 329
- Polyaniline**
batteries, large-scale, 115
electrodes, behaviour of, in aqueous and organic solutions, 185
- Photoelectrochemical solar cell**
Cd sulphide-solid electrolyte, 121
- Photoelectrochemical study**
of screen-printed Cd sulphide electrodes, 41
- Polymer electrolyte**
a.c. impedance studies of Li/, interface, in solid-state Li cells, 157
Li/LiV₃O₈, Li battery; investigation of electrode interfaces, 287
- Quality control test**
for Pb oxide purity, gassing behaviour of lead-acid negative active material and development of, 127
- Semiconductivity**
and solid electrolyte characteristics of surface films formed on active metals of interest in high energy density batteries, 243
- Solar cell**
Cd sulphide-solid electrolyte photoelectrochemical, 121
- Solar concentrators**
of the solar centre of vignola, Corsica; modelling a real system, 273
- Solid-state cells**
discharge characteristics of, incorporating thin films of cuprous halide mixed phase, 349
- Spectrophotometric studies**
interaction of Fe²⁺/Fe³⁺ and Ti³⁺/Ti²⁺ with chromotropic acid, 341
- Surface films**
formed on active metals of interest in high energy density batteries,

- semiconductivity and solid electrolyte characteristics of, 243
- Surface modification
 - of Ni electrodes for molten carbonate fuel cells, 207
- Technological status
 - of Ni oxide cathodes in molten carbonate fuel cells, 1
- Temperature
 - thermodynamic determinations for Li/thionyl chloride and Li/BrCl-thionyl chloride cells as function of, and depth of discharge, 229
- Thermal treatment
 - thin foil Li-Al electrode; effect of, on its electrochemical behaviour in nonaqueous media, 71
- Thermodynamic determinations
 - for Li/thionyl chloride and Li/BrCl-thionyl chloride cells as function of temperature and depth of discharge, 229
- Thionyl chloride
 - Li/, battery manufacture, effect of impurities on performance of Li intended for, 95
 - Li/ and Li/BrCl- cells, thermodynamic determinations for, as function of temperature and depth of discharge, 229
- temperature and depth of discharge, 229
- Li-SOCl₂ cell, a review, 253
- Titanium
 - interaction of Fe²⁺/Fe³⁺ and Ti³⁺/Ti²⁺ with chromotropic acid; conductometric and spectrophotometric studies, 341
- Transient response
 - of 10-kW class advanced batteries to abrupt load changes, 31
- Vanadium
 - comparative electrochemical study of MoO₃, V₂O₅ and MoV₂O₈ as rechargeable cathodes in Li cells, 85
 - Li/LiV₃O₈ polymer electrolyte Li battery; investigation of electrode interfaces, 287
- Voltage transients
 - of Mg/Mn dioxide dry cells in absence of anode-film breakdown, experimental and theoretical investigation of, 295
- Zinc
 - electrodeposition of, onto graphitic C substrates from alkaline electrolytes, 21