

Subject Index of Volume 56

- Additives**
a study of the electrochemistry of nickel hydroxide electrodes with various additives, 75
- Alkaline storage batteries**
on the performance of stabilized α -nickel hydroxide as a nickel-positive electrode in alkaline storage batteries, 111
- Aluminium**
electrosynthesis and stabilization of α -cobalt hydroxide in the presence of trivalent cations, 97
- Batteries**
electrochemical characterization of magnesium/silver chloride battery, 197
- Biogas**
fuel processing of biogas for small fuel cell power plants, 45
- Cadmium**
open-circuit voltage recovery of nickel/cadmium cells, 171
- Carbon**
construction and destruction of passivating layer on Li_xC_6 in organic electrolytes: an impedance study, 81
material balance of petroleum coke/ LiNiO_2 lithium-ion cells, 137
- Carbonate fuel cell materials**
status of carbonate fuel cell materials, 1
- Cathode materials**
preparation of a FeOCl derivative with pyrrole and its performance as a cathode material in a secondary lithium battery system, 165
- Cathodes**
effects of dopants on electrochemical performance of nickel cathodes, 115
- Cells**
open-circuit voltage recovery of nickel/cadmium cells, 171
- Chitosan**
polymer batteries fabricated from lithium complexed acetylated chitosan, 153
- Chloride**
a comparative study of zinc–polyaniline electrochemical cells having sulfate and chloride electrolytes, 133
- Chromium**
electrosynthesis and stabilization of α -cobalt hydroxide in the presence of trivalent cations, 97
- Cobalt hydroxide**
electrosynthesis and stabilization of α -cobalt hydroxide in the presence of trivalent cations, 97
- Coke carbon**
lithium doping/undoping in disordered coke carbons, 205
- Conductive polymers**
electrochemical characteristics of polyaniline synthesized by various methods, 189
- Copper**
fabrication and characterization of solid-state cells using CuI_{100-x} -(silver ortho/pyrophosphate) $_x$ ($0 \leq x \leq 60$) mixed systems as solid electrolytes, 107
- Cyclic voltammetry**
effect of concentration of lithium ions on the voltammetric responses of nitro-substituted aromatic sulfides in dimethylformamide on glassy carbon electrodes, 145
- Daramic**
use of polyelectrolyte for incorporation of ion-exchange groups in composite membranes for vanadium redox flow battery applications, 91
- Divinylbenzene**
use of polyelectrolyte for incorporation of ion-exchange groups in composite membranes for vanadium redox flow battery applications, 91
- Dopants**
effects of dopants on electrochemical performance of nickel cathodes, 115
- Electrical conductivity**
oxygen evolution and reduction on iridium oxide compounds, 51
- Electrocatalysis**
oxygen evolution and reduction on iridium oxide compounds, 51
- Electrochemical impedance**
effects of lithium content on the electrochemical lithium intercalation reaction into LiNiO_2 and LiCoO_2 electrodes, 25
- Electrodes**
a study of the electrochemistry of nickel hydroxide electrodes with various additives, 75
electrochemical intercalation of ionic species of tetrabutylammonium perchlorate on graphite electrodes. A potential dual-intercalation battery system, 101
electrochemical impregnation and performance of nickel hydroxide electrodes with porous plaques of hollow nickel fibres, 157
a nickel–iron battery with roll-compacted iron electrodes, 209
- Electrode surface effects**
effect of concentration of lithium ions on the voltammetric responses of nitro-substituted aromatic sulfides in dimethylformamide on glassy carbon electrodes, 145
- Electrolytes**
application of the quartz crystal microbalance to measurement of the concentration of electrolyte in lead/acid batteries, 19
- Electrosynthesis**
electrosynthesis and stabilization of α -cobalt hydroxide in the presence of trivalent cations, 97

- Glassy carbon electrodes
effect of concentration of lithium ions on the voltammetric responses of nitro-substituted aromatic sulfides in dimethylformamide on glassy carbon electrodes, 145
- Graphite
electrochemical intercalation of ionic species of tetrabutylammonium perchlorate on graphite electrodes. A potential dual-intercalation battery system, 101
material balance of petroleum coke/LiNiO₂ lithium-ion cells, 137
a metal-free polypyrrole/graphite secondary battery with an anion shuttle mechanism, 179
- Graphite electrodes
comparison of fluoride intercalation/de-intercalation processes on graphite electrodes in aqueous and aqueous methanolic HF media, 125
- Heat balance
a study of heat and material balances in an internal-reforming molten carbonate fuel cell, 11
- Host lattice
low temperature molybdenum oxide as host lattice for lithium intercalation, 87
- Hydrogen
internal hydration H₂/O₂ 100 cm² polymer electrolyte membrane fuel cell, 31
- Hydrogen fluoride
comparison of fluoride intercalation/de-intercalation processes on graphite electrodes in aqueous and aqueous methanolic HF media, 125
- Implantable devices
preliminary evaluation of rechargeable lithium-ion cells for an implantable battery pack, 69
- Intercalation
electrochemical intercalation of ionic species of tetrabutylammonium perchlorate on graphite electrodes. A potential dual-intercalation battery system, 101
- Iodine
fabrication and characterization of solid-state cells using CuI_{100-x}-(silver ortho/pyrophosphate)_x (0 ≤ x ≤ 60) mixed systems as solid electrolytes, 107
- Ion-exchange reaction
preparation of a FeOCl derivative with pyrrole and its performance as a cathode material in a secondary lithium battery system, 165
- Iridium oxide compounds
oxygen evolution and reduction on iridium oxide compounds, 51
- Iron
preparation of a FeOCl derivative with pyrrole and its performance as a cathode material in a secondary lithium battery system, 165
a nickel-iron battery with roll-compacted iron electrodes, 209
- Lattice constant
effects of lithium content on the electrochemical lithium intercalation reaction into LiNiO₂ and LiCoO₂ electrodes, 25
- Layered double hydroxide
electrosynthesis and stabilization of α-cobalt hydroxide in the presence of trivalent cations, 97
- Layered oxide
effects of lithium content on the electrochemical lithium intercalation reaction into LiNiO₂ and LiCoO₂ electrodes, 25
- Lead/acid batteries
application of the quartz crystal microbalance to measurement of the concentration of electrolyte in lead/acid batteries, 19
- Lithiated manganese oxides
studies on an Li-Mn-O spinel system (obtained by melt-impregnation) as a cathode for 4 V lithium batteries. Part 1. Synthesis and electrochemical behaviour of Li_xMn₂O₄, 61
- Lithium
studies on an Li-Mn-O spinel system (obtained by melt-impregnation) as a cathode for 4 V lithium batteries. Part 1. Synthesis and electrochemical behaviour of Li_xMn₂O₄, 61
construction and destruction of passivating layer on Li_xC₆ in organic electrolytes: an impedance study, 81
polymer batteries fabricated from lithium complexed acetylated chitosan, 153
rechargeable lithium batteries based on Li_{1+x}V₃O₈ thin films, 193
- Lithium diffusion
effects of lithium content on the electrochemical lithium intercalation reaction into LiNiO₂ and LiCoO₂ electrodes, 25
- Lithium doping sites
lithium doping/undoping in disordered coke carbons, 205
- Lithium intercalation
effects of lithium content on the electrochemical lithium intercalation reaction into LiNiO₂ and LiCoO₂ electrodes, 25
low temperature molybdenum oxide as host lattice for lithium intercalation, 87
- Lithium-ion batteries
studies on an Li-Mn-O spinel system (obtained by melt-impregnation) as a cathode for 4 V lithium batteries. Part 1. Synthesis and electrochemical behaviour of Li_xMn₂O₄, 61
lithium doping/undoping in disordered coke carbons, 205
- Lithium-ion cells
material balance of petroleum coke/LiNiO₂ lithium-ion cells, 137
- Lithium ions
effect of concentration of lithium ions on the voltammetric responses of nitro-substituted aromatic sulfides in dimethylformamide on glassy carbon electrodes, 145
- Magnesium
electrochemical characterization of magnesium/silver chloride battery, 197
- Manganese dioxide
synthesis of Mn spinels from different polymorphs of MnO₂, 37
- Manganese oxides
studies on an Li-Mn-O spinel system (obtained by melt-impregnation) as a cathode for 4 V lithium batteries. Part 1. Synthesis and electrochemical behaviour of Li_xMn₂O₄, 61
- Manganese spinels
synthesis of Mn spinels from different polymorphs of MnO₂, 37
- Material balance
a study of heat and material balances in an internal-reforming molten carbonate fuel cell, 11
material balance of petroleum coke/LiNiO₂ lithium-ion cells, 137
- Methanol
comparison of fluoride intercalation/de-intercalation processes on graphite electrodes in aqueous and aqueous methanolic HF media, 125
- Molten carbonate fuel cells
a study of heat and material balances in an internal-reforming molten carbonate fuel cell, 11
- Molybdenum oxide
low temperature molybdenum oxide as host lattice for lithium intercalation, 87

- Nickel**
 effects of dopants on electrochemical performance of nickel cathodes, 115
 open-circuit voltage recovery of nickel/cadmium cells, 171
- Nickel cathode**
 a study of the performance of a paste-type nickel cathode, 201
- Nickel fibres**
 electrochemical impregnation and performance of nickel hydroxide electrodes with porous plaques of hollow nickel fibres, 157
- Nickel hydroxide**
 a study of the electrochemistry of nickel hydroxide electrodes with various additives, 75
 on the performance of stabilized α -nickel hydroxide as a nickel-positive electrode in alkaline storage batteries, 111
 electrochemical impregnation and performance of nickel hydroxide electrodes with porous plaques of hollow nickel fibres, 157
- Nickel-iron batteries**
 a nickel-iron battery with roll-compacted iron electrodes, 209
- Nitro aromatic sulfides**
 effect of concentration of lithium ions on the voltammetric responses of nitro-substituted aromatic sulfides in dimethylformamide on glassy carbon electrodes, 145
- N-methylpyrrole**
 preparation of a FeOCl derivative with pyrrole and its performance as a cathode material in a secondary lithium battery system, 165
- Organic electrolytes**
 construction and destruction of passivating layer on Li_xC_6 in organic electrolytes: an impedance study, 81
- Oxygen**
 internal hydration H_2/O_2 100 cm^2 polymer electrolyte membrane fuel cell, 31
- Oxygen-evolution reaction**
 oxygen evolution and reduction on iridium oxide compounds, 51
- Passivating layer**
 construction and destruction of passivating layer on Li_xC_6 in organic electrolytes: an impedance study, 81
- Paste-type cathodes**
 a study of the performance of a paste-type nickel cathode, 201
- Petroleum coke**
 material balance of petroleum coke/ LiNiO_2 lithium-ion cells, 137
- Phosphoric acid fuel cells**
 fuel processing of biogas for small fuel cell power plants, 45
- Polyaniline**
 a comparative study of zinc-polyaniline electrochemical cells having sulfate and chloride electrolytes, 133
 electrochemical characteristics of polyaniline synthesized by various methods, 189
- Polyelectrolyte**
 use of polyelectrolyte for incorporation of ion-exchange groups in composite membranes for vanadium redox flow battery applications, 91
- Polymer electrolyte membrane fuel cells**
 internal hydration H_2/O_2 100 cm^2 polymer electrolyte membrane fuel cell, 31
- Polymer electrolytes**
 polymer batteries fabricated from lithium complexed acetylated chitosan, 153
- Polypyrrole**
 a metal-free polypyrrole/graphite secondary battery with an anion shuttle mechanism, 179
- Poly(sodium 4-styrenesulfonate)**
 use of polyelectrolyte for incorporation of ion-exchange groups in composite membranes for vanadium redox flow battery applications, 91
- Positive electrodes**
 on the performance of stabilized α -nickel hydroxide as a nickel-positive electrode in alkaline storage batteries, 111
- Pyrochlores**
 oxygen evolution and reduction on iridium oxide compounds, 51
- Pyrrole**
 preparation of a FeOCl derivative with pyrrole and its performance as a cathode material in a secondary lithium battery system, 165
- Quartz crystal microbalance**
 application of the quartz crystal microbalance to measurement of the concentration of electrolyte in lead/acid batteries, 19
- Rechargeable lithium batteries**
 rechargeable lithium batteries based on $\text{Li}_{1+x}\text{V}_3\text{O}_8$ thin films, 193
- Rechargeable lithium-ion cells**
 preliminary evaluation of rechargeable lithium-ion cells for an implantable battery pack, 69
- Secondary batteries**
 a metal-free polypyrrole/graphite secondary battery with an anion shuttle mechanism, 179
- Secondary cells**
 a comparative study of zinc-polyaniline electrochemical cells having sulfate and chloride electrolytes, 133
- Silver**
 fabrication and characterization of solid-state cells using CuI_{100-x} -(silver ortho/pyrophosphate) $_x$ ($0 \leq x \leq 60$) mixed systems as solid electrolytes, 107
- Silver chloride**
 electrochemical characterization of magnesium/silver chloride battery, 197
- Silver phosphates**
 fabrication and characterization of solid-state cells using CuI_{100-x} -(silver ortho/pyrophosphate) $_x$ ($0 \leq x \leq 60$) mixed systems as solid electrolytes, 107
- Solid-state cells**
 fabrication and characterization of solid-state cells using CuI_{100-x} -(silver ortho/pyrophosphate) $_x$ ($0 \leq x \leq 60$) mixed systems as solid electrolytes, 107
- Spinel**
 studies on an Li-Mn-O spinel system (obtained by melt-impregnation) as a cathode for 4 V lithium batteries. Part 1. Synthesis and electrochemical behaviour of $\text{Li}_x\text{Mn}_2\text{O}_4$, 61
- Sulfate**
 a comparative study of zinc-polyaniline electrochemical cells having sulfate and chloride electrolytes, 133

Tetrabutylammonium perchlorate

electrochemical intercalation of ionic species of tetrabutylammonium perchlorate on graphite electrodes. A potential dual-intercalation battery system, 101

Thin films

rechargeable lithium batteries based on $\text{Li}_{1+x}\text{V}_3\text{O}_8$ thin films, 193

Vanadium

rechargeable lithium batteries based on $\text{Li}_{1+x}\text{V}_3\text{O}_8$ thin films, 193

Vanadium redox battery

use of polyelectrolyte for incorporation of ion-exchange groups in composite membranes for vanadium redox flow battery applications, 91