

Subject Index of Volumes 43 and 44

- Alloys**
investigations on rechargeable lithium alloys on the basis of Al-Ni and Al-Mn alloys, 421
- Aluminium**
investigations on rechargeable lithium alloys on the basis of Al-Ni and Al-Mn alloys, 421
- Amines**
conductivity and stability towards lithium metal of lithium triflate (LiSO_3CF_3) and lithium bistrifluoro-sulfonylimide ($\text{Li}(\text{SO}_2\text{CF}_3)_2\text{N}$) in amines and their mixtures with ammonia, 349
new conducting polymer networks, 445
- Ammonia**
conductivity and stability towards lithium metal of lithium triflate (LiSO_3CF_3) and lithium bistrifluoro-sulfonylimide ($\text{Li}(\text{SO}_2\text{CF}_3)_2\text{N}$) in amines and their mixtures with ammonia, 349
- Batteries**
development of cylindrical secondary lithium/polyaniline batteries, 669
- Boron**
a new negative electrode matrix, BC_2N , for rechargeable lithium batteries, 75
- Bronze**
reversible potassium vanadium bronze cathodes ($\text{K}_x\text{V}_6\text{O}_{13+y}$) with various potassium to vanadium ratios, 603
- Capacity**
relationship of cathode pore-size distribution and rated capacity in Li/MnO₂ cells, 709
- Carbon**
a new negative electrode matrix, BC_2N , for rechargeable lithium batteries, 75
the SWING system, a nonaqueous rechargeable carbon/metal oxide cell, 223
high voltage, rechargeable lithium batteries using newly-developed carbon for negative electrode material, 233
lithium-ion rechargeable cells with LiCoO_2 and carbon electrodes, 241
improvement of heavy-drain discharge properties of polypyrrole cathode by the electro-codeposition of carbon powder, 611
- Carbon electrodes**
electrochemical and spectroscopic studies of carbon electrodes in lithium battery electrolyte systems, 47
electrochemical study of the passivating layer on lithium intercalated carbon electrodes in nonaqueous solvents, 65
studies of carbon as negative electrode materials for secondary lithium batteries, 399
stability of lithiated carbon electrodes in organic electrolytes, 409
- Carbon-lithium**
inorganic film-forming electrolyte additives improving the cycling behaviour of metallic lithium electrodes and the self-discharge of carbon-lithium electrodes, 413
- Cathode materials**
characterization of $\text{Cu}_2\text{V}_2\text{O}_7$ as cathode material for lithium cells by X-ray and photoelectron spectroscopy, 589
a high performance Li_xMnO_2 cathode material for rechargeable lithium cells, 681
- Cathode pore-size distribution**
relationship of cathode pore-size distribution and rated capacity in Li/MnO₂ cells, 709
- Cathodes**
reversible potassium vanadium bronze cathodes ($\text{K}_x\text{V}_6\text{O}_{13+y}$) with various potassium to vanadium ratios, 603
improvement of heavy-drain discharge properties of polypyrrole cathode by the electro-codeposition of carbon powder, 611
thiospinels as cathode for lithium secondary battery, 619

- nickel Chevrel-phase sulfides $Ni_xMo_6S_{8-x}$ and $Ni_xMo_6S_{8-x}O_n$ as the cathode of lithium secondary batteries, 651
- Chromium oxide
studies of spinel $LiCr_xMn_{2-x}O_4$ for secondary lithium battery, 539
- Cobalt
lithium-ion rechargeable cells with $LiCoO_2$ and carbon electrodes, 241
- Cobalt oxide
 Li/Li_xNiO_2 and Li/Li_xCoO_2 rechargeable systems: comparative study and performance of practical cells, 209
the $Li_xTiS_2/Li_{(1-x)}CoO_2$ solid-state rocking chair battery, 481
the cycling properties of the $Li_xNi_{1-y}Co_yO_2$ electrode, 595
a rechargeable Li/Li_xCoO_2 cell incorporating a $LiCF_3SO_3$ -NMP electrolyte, 673
- Composite dimensional manganese oxide (CMDO)
electrochemical and structural studies of the composite MnO_2 cathode doped with metal oxides, 533
- Composite insertion electrodes
discharge performance of composite insertion electrodes. Analysis of discharges of 50 vol.% Li_3N/TiS_2 electrodes, 733
- Copper
metal deposition and dissolution monitored by *in situ* scanning tunneling microscopy, 169
- Copper oxide
characterization of $Cu_2V_2O_7$ as cathode material for lithium cells by X-ray and photoelectron spectroscopy, 589
- Copper sulfide
copper(II) sulfide as cathode active material in secondary lithium batteries, 701
- Current density
lithium electrode cycleability and morphology dependence on current density, 27
- Cycleability
interfacial phenomena in polymer-electrolyte cells: lithium passivation and cycleability, 9
lithium electrode cycleability and morphology dependence on current density, 27
- Cycling
effect of cycling on the lithium/electrolyte interface in organic electrolytes, 21
lithium-cycling efficiency in inorganic electrolyte solution, 405
inorganic film-forming electrolyte additives improving the cycling behaviour of metallic lithium electrodes and the self-discharge of carbon-lithium electrodes, 413
two- and three-electrode studies of cycling in experimental polymer electrolyte cells, 461
the cycling properties of the $Li_xNi_{1-y}Co_yO_2$ electrode, 595
- 1,1-Difluoroethene
modification of lithium/electrolyte interface by plasma polymerization of 1,1-difluoroethene, 377
- Discharge behaviour
modeling the discharge behavior of the lithium/iodine battery, 111
improvement of heavy-drain discharge properties of polypyrrole cathode by the electro-codeposition of carbon powder, 611
- Electrochemical lithiation
inhomogeneous electrochemical lithiation of V_2O_5 - TeO_2 binary glasses in a propylene carbonate solution, 645
- Electrode reactions
volatile products of electrode reactions in inorganic electrolyte, 727
- Electrodes
lithium-ion rechargeable cells with $LiCoO_2$ and carbon electrodes, 241
electrodes for lithium batteries, 269
anodic stability of propylene carbonate on manganese dioxide electrodes, 341
insertion of lithium into RuO_2 - TiO_2 electrodes, 547
the cycling properties of the $Li_xNi_{1-y}Co_yO_2$ electrode, 595
discharge performance of composite insertion electrodes. Analysis of discharges of 50 vol.% Li_3N/TiS_2 electrodes, 733
- Electrolytes
impedance study of the interfaces between lithium, polyaniline, lithium-doped MnO_2 and modified poly(ethylene oxide) electrolyte, 83

- inorganic film-forming electrolyte additives improving the cycling behaviour of metallic lithium electrodes and the self-discharge of carbon-lithium electrodes, 413
- safety study of electrolyte solutions for lithium batteries by accelerating-rate calorimetry, 523
- Glasses**
- inhomogeneous electrochemical lithiation of V_2O_5 - TeO_2 binary glasses in a propylene carbonate solution, 645
- Gold**
- metal deposition and dissolution monitored by *in situ* scanning tunneling microscopy, 169
- Impedance studies**
- impedance study for the interface and whole battery with PAN-based polymer electrolyte, 431
- Inorganic electrolytes**
- lithium-cycling efficiency in inorganic electrolyte solution, 405
- rechargeable $LiCoO_2$ in inorganic electrolyte solution, 583
- volatile products of electrode reactions in inorganic electrolyte, 727
- Iron**
- application of $FeOOH$ derivatives for a secondary lithium battery, 627
- Iron sulfide**
- relationship between composition of the electrolyte solutions and energetic performance of 1.5 V non-aqueous cells of lithium/iron sulfide system, 355
- Lithium**
- photoelectrochemistry of lithium, 157
- thermal modelling of a high power $Li/SOCl_2$ cell with parallel plates, 309
- a high power lithium thionyl chloride battery for space applications, 317
- conductivity and stability towards lithium metal of lithium triflate ($LiSO_3CF_3$) and lithium bistrifluoro-sulfonylimide ($Li(SO_2CF_3)_2N$) in amines and their mixtures with ammonia, 349
- relationship between composition of the electrolyte solutions and energetic performance of 1.5 V non-aqueous cells of lithium/iron sulfide system, 355
- space-charge model of the SEI conduction in the $Li/SOCl_2$ system, 391
- investigations on rechargeable lithium alloys on the basis of Al-Ni and Al-Mn alloys, 421
- insertion of lithium into RuO_2 - TiO_2 electrodes, 547
- the cycling properties of the $Li_xNi_{1-x}Co_yO_2$ electrode, 595
- development of cylindrical secondary lithium/polyaniline batteries, 669
- a rechargeable Li/Li_xCoO_2 cell incorporating a $LiCF_3SO_3$ -NMP electrolyte, 673
- an update of the Li metal-free rechargeable battery based on $Li_{1+x}Mn_2O_4$ cathodes and carbon anodes, 689
- Lithium/electrolyte interface**
- behavior of lithium/electrolyte interface in organic solutions, 1
- interfacial phenomena in polymer-electrolyte cells: lithium passivation and cycleability, 9
- effect of cycling on the lithium/electrolyte interface in organic electrolytes, 21
- modification of lithium/electrolyte interface by plasma polymerization of 1,1-difluoroethene, 377
- Lithium/iodine batteries**
- modeling the discharge behavior of the lithium/iodine battery, 111
- Lithium anodes**
- polymer electrolyte coatings for lithium anodes in $SOCl_2$ cells, 385
- Lithium batteries**
- electrochemical and spectroscopic studies of carbon electrodes in lithium battery electrolyte systems, 47
- a new negative electrode matrix, BC_2N , for rechargeable lithium batteries, 75
- impedance study of the interfaces between lithium, polyaniline, lithium-doped MnO_2 and modified poly(ethylene oxide) electrolyte, 83
- application of solid-polymer electrolyte in lithium batteries: ultra-thin film battery, 89
- fabrication and characterization of amorphous lithium electrolyte thin

- films and rechargeable thin-film batteries, 103
- parasitic reactions and the balance of materials in lithium batteries for implantable medical devices, 119
- thin-film vanadium oxide electrodes for lithium batteries, 127
- electrochemical behaviors of Li^+ ion conductor, $\text{Li}_3\text{PO}_4\text{-Li}_2\text{S-SiS}_2$, 135
- recent advances in experimental methods applied to lithium battery researches, 145
- investigation of an electrolyte for lithium secondary batteries with lithium-containing manganese dioxide as the positive material, 217
- high voltage, rechargeable lithium batteries using newly-developed carbon for negative electrode material, 233
- safety and reliability studies of primary lithium batteries, 247
- electrodes for lithium batteries, 269
- the versatility of MnO_2 for lithium battery applications, 289
- ionic transport in passivating layers on the lithium electrode, 365
- studies of carbon as negative electrode materials for secondary lithium batteries, 399
- lithium/polymer/polymer solid-state rechargeable batteries, 453
- the $\text{Li}_x\text{TiS}_2|\text{Li}_{(1-x)}\text{CoO}_2$ solid-state rocking chair battery, 481
- thermal stability of lithium anodes in an amorphous $\text{V}_2\text{O}_5/\text{Li}$ battery system, 517
- safety study of electrolyte solutions for lithium batteries by accelerating-rate calorimetry, 523
- studies of spinel $\text{LiCr}_x\text{Mn}_{2-x}\text{O}_4$ for secondary lithium battery, 539
- potassium vanadates — promising materials for secondary lithium batteries, 561
- rechargeable $\gamma\text{-MnO}_2$ for lithium batteries using a sulfone-based electrolyte at 150°C , 569
- $\text{V}_2\text{O}_5\text{S}$ — a new transition metal oxysulfide as positive for lithium batteries, 577
- thiospinels as cathode for lithium secondary battery, 619
- application of FeOOH derivatives for a secondary lithium battery, 627
- nickel Chevrel-phase sulfides $\text{Ni}_y\text{Mo}_6\text{S}_{8-z}$ and $\text{Ni}_y\text{Mo}_6\text{S}_{8-z}\text{O}_n$ as the cathode of lithium secondary batteries, 651
- copper(II) sulfide as cathode active material in secondary lithium batteries, 701
- Lithium-carbon compounds
- some aspects on the preparation, structure and physical and electrochemical properties of Li_xC_6 , 39
- Lithium-carbon intercalation
- electrochemical and spectroscopic studies of carbon electrodes in lithium battery electrolyte systems, 47
- electrochemical study of the passivating layer on lithium intercalated carbon electrodes in nonaqueous solvents, 65
- Lithium cells
- interfacial phenomena in polymer-electrolyte cells: lithium passivation and cycleability, 9
- effect of cycling on the lithium/electrolyte interface in organic electrolytes, 21
- a model for the deliverable capacity of the TiS_2 electrode in a Li/TiS_2 cell, 181
- a study on electrolytes for manganese dioxide-lithium cells, 253
- safety aspects in primary high-rate lithium cells, 259
- lithium-cycling efficiency in inorganic electrolyte solution, 405
- stability of lithiated carbon electrodes in organic electrolytes, 409
- characterization of $\text{Cu}_2\text{V}_2\text{O}_7$ as cathode material for lithium cells by X-ray and photoelectron spectroscopy, 589
- a high performance Li_xMnO_y cathode material for rechargeable lithium cells, 681
- relationship of cathode pore-size distribution and rated capacity in Li/MnO_2 cells, 709
- optimized lithium oxhalide cells, 715
- Lithium electrodes
- lithium electrode cycleability and morphology dependence on current density, 27
- inorganic film-forming electrolyte additives improving the cycling behaviour of metallic lithium electrodes and the self-discharge of carbon-lithium electrodes, 413

- polarization behavior of lithium electrode in polymeric solid electrolytes, 439
- Lithium insertion
lithium insertion into TiS_2 from various electrolytes, 301
- Lithium intercalation
transition metal displacement in cathodic host structures upon lithium intercalation, 277
structural and electrochemical characteristics of a hollandite-type ' Li_xMnO_2 ', 657
- Lithium oxide
preparation and electrochemical characteristics of new Li-Mn-V-O system as positive materials for rechargeable lithium batteries, 635
- Manganese
investigations on rechargeable lithium alloys on the basis of Al-Ni and Al-Mn alloys, 421
an update of the Li metal-free rechargeable battery based on $\text{Li}_{1+x}\text{Mn}_2\text{O}_4$ cathodes and carbon anodes, 689
- Manganese dioxide
impedance study of the interfaces between lithium, polyaniline, lithium-doped MnO_2 and modified poly(ethylene oxide) electrolyte, 83
investigation of an electrolyte for lithium secondary batteries with lithium-containing manganese dioxide as the positive material, 217
a study on electrolytes for manganese dioxide-lithium cells, 253
the versatility of MnO_2 for lithium battery applications, 289
anodic stability of propylene carbonate on manganese dioxide electrodes, 341
- Manganese oxide
electrochemical and structural studies of the composite MnO_2 cathode doped with metal oxides, 533
studies of spinel $\text{LiCr}_x\text{Mn}_{2-x}\text{O}_4$ for secondary lithium battery, 539
rechargeable lithium battery with spinel-related λ - MnO_2 . I. Synthesis of λ - MnO_2 for battery applications, 551
rechargeable γ - MnO_2 for lithium batteries using a sulfone-based electrolyte at 150 °C, 569
- preparation and electrochemical characteristics of new Li-Mn-V-O system as positive materials for rechargeable lithium batteries, 635
structural and electrochemical characteristics of a hollandite-type ' Li_xMnO_2 ', 657
- Metal deposition
metal deposition and dissolution monitored by *in situ* scanning tunneling microscopy, 169
- Metal dissolution
metal deposition and dissolution monitored by *in situ* scanning tunneling microscopy, 169
- Metallized separators
metallized microporous polypropylene membranes as a support for thin-film electrodes, 493
- Microbatteries
all-solid-state lithium microbatteries, 487
a thin-film solid-state microbattery, 505
- Negative electrode
a new negative electrode matrix, BC_2N , for rechargeable lithium batteries, 75
high voltage, rechargeable lithium batteries using newly-developed carbon for negative electrode material, 233
studies of carbon as negative electrode materials for secondary lithium batteries, 399
- Nickel
investigations on rechargeable lithium alloys on the basis of Al-Ni and Al-Mn alloys, 421
nickel Chevrel-phase sulfides $\text{Ni}_i\text{Mo}_6\text{S}_{8-x}$ and $\text{Ni}_i\text{Mo}_6\text{S}_{8-x}\text{O}_n$ as the cathode of lithium secondary batteries, 651
- Nickel oxide
 $\text{Li}/\text{Li}_x\text{NiO}_2$ and $\text{Li}/\text{Li}_x\text{CoO}_2$ rechargeable systems: comparative study and performance of practical cells, 209
the cycling properties of the $\text{Li}_x\text{Ni}_{1-y}\text{Co}_y\text{O}_2$ electrode, 595
- Nitride
a new negative electrode matrix, BC_2N , for rechargeable lithium batteries, 75
- Non-aqueous cells
relationship between composition of the electrolyte solutions and energetic performance of 1.5 V non-aqueous cells of lithium/iron sulfide system, 355

- Organic electrolytes**
 behavior of lithium/electrolyte interface in organic solutions, 1
 effect of cycling on the lithium/electrolyte interface in organic electrolytes, 21
 a rechargeable Li/Li₁CoO₂ cell incorporating a LiCF₃SO₃-NMP electrolyte, 673
 an update of the Li metal-free rechargeable battery based on Li_{1+x}Mn₂O₄ cathodes and carbon anodes, 689
- Oxyhalide**
 optimized lithium oxyhalide cells, 715
- Oxysulfide**
 V₂O₄S — a new transition metal oxysulfide as positive for lithium batteries, 577
- Parasitic reactions**
 parasitic reactions and the balance of materials in lithium batteries for implantable medical devices, 119
- Passivating layers**
 ionic transport in passivating layers on the lithium electrode, 365
- Photoelectrochemistry**
 photoelectrochemistry of lithium, 157
- Polarization behaviour**
 polarization behavior of lithium electrode in polymeric solid electrolytes, 439
- Polyacrylonitrile**
 impedance study for the interface and whole battery with PAN-based polymer electrolyte, 431
- Polyaniline**
 impedance study of the interfaces between lithium, polyaniline, lithium-doped MnO₂ and modified poly(ethylene oxide) electrolyte, 83
 polyaniline used as a positive in solid-state lithium battery, 499
 development of cylindrical secondary lithium/polyaniline batteries, 669
- Poly(ethylene oxide)**
 impedance study of the interfaces between lithium, polyaniline, lithium-doped MnO₂ and modified poly(ethylene oxide) electrolyte, 83
 block copolymers of poly(ethylene oxide) materials for polymer electrolytes (transport properties), 467
- Polymer-electrolyte batteries**
 ambient temperature rechargeable polymer-electrolyte batteries, 195
- Polymer-electrolyte cells**
 interfacial phenomena in polymer-electrolyte cells: lithium passivation and cycleability, 9
- Polymer electrolyte coatings**
 polymer electrolyte coatings for lithium anodes in SOCl₂ cells, 385
- Polymer electrolytes**
 impedance study for the interface and whole battery with PAN-based polymer electrolyte, 431
 polarization behavior of lithium electrode in polymeric solid electrolytes, 439
 new conducting polymer networks, 445
 lithium/polymer/polymer solid-state rechargeable batteries, 453
 two-and three-electrode studies of cycling in experimental polymer electrolyte cells, 461
 block copolymers of poly(ethylene oxide) materials for polymer electrolytes (transport properties), 467
 enhancement of the ionic conductivity and the amorphous state of solid polymer electrolytes for rechargeable lithium batteries, 473
- Polypropylene membranes**
 metallized microporous polypropylene membranes as a support for thin-film electrodes, 493
- Polypyrrole**
 improvement of heavy-drain discharge properties of polypyrrole cathode by the electro-codeposition of carbon powder, 611
- Potassium**
 potassium vanadates — promising materials for secondary lithium batteries, 561
 reversible potassium vanadium bronze cathodes (K_xV₆O_{13+y}) with various potassium to vanadium ratios, 603
- Propylene carbonate**
 anodic stability of propylene carbonate on manganese dioxide electrodes, 341
 inhomogeneous electrochemical lithiation of V₂O₅-TeO₂ binary glasses in a propylene carbonate solution, 645

- Rechargeable batteries
 an update of the Li metal-free rechargeable battery based on $\text{Li}_{1+x}\text{Mn}_2\text{O}_4$ cathodes and carbon anodes, 689
- Rechargeable lithium batteries
 design concepts of high power bipolar rechargeable lithium battery, 327
 enhancement of the ionic conductivity and the amorphous state of solid polymer electrolytes for rechargeable lithium batteries, 473
 rechargeable lithium battery with spinel-related $\lambda\text{-MnO}_2$. I. Synthesis of $\lambda\text{-MnO}_2$ for battery applications, 551
 rechargeable LiCoO_2 in inorganic electrolyte solution, 583
 preparation and electrochemical characteristics of new Li-Mn-V-O system as positive materials for rechargeable lithium batteries, 635
- Rechargeable lithium cells
 Li/Li_xNiO₂ and Li/Li_xCoO₂ rechargeable systems: comparative study and performance of practical cells, 209
 lithium-ion rechargeable cells with LiCoO_2 and carbon electrodes, 241
 a rechargeable Li/Li_xCoO₂ cell incorporating a $\text{LiCF}_3\text{SO}_3\text{-NMP}$ electrolyte, 673
 a high performance Li_xMnO_y cathode material for rechargeable lithium cells, 681
- Reliability
 safety and reliability studies of primary lithium batteries, 247
- Rubidium oxide
 insertion of lithium into $\text{RuO}_2\text{-TiO}_2$ electrodes, 547
- Safety
 safety and reliability studies of primary lithium batteries, 247
 safety aspects in primary high-rate lithium cells, 259
 safety study of electrolyte solutions for lithium batteries by accelerating-rate calorimetry, 523
- Sealed minicells
 recent advances in experimental methods applied to lithium battery researches, 145
- Self-discharge
 inorganic film-forming electrolyte additives improving the cycling behaviour of metallic lithium electrodes and the self-discharge of carbon-lithium electrodes, 413
- Solid-electrolyte interface
 space-charge model of the SEI conduction in the Li/SOCl_2 system, 391
- Solid-polymer electrolyte
 application of solid-polymer electrolyte in lithium batteries: ultra-thin film battery, 89
- Solid-state lithium batteries
 electrochemical behaviors of Li^+ ion conductor, $\text{Li}_3\text{PO}_4\text{-Li}_2\text{S-SiS}_2$, 135
 all-solid-state lithium microbatteries, 487
 polyaniline used as a positive in solid-state lithium battery, 499
 a thin-film solid-state microbattery, 505
- Space applications
 a high power lithium thionyl chloride battery for space applications, 317
- Space-charge model
 space-charge model of the SEI conduction in the Li/SOCl_2 system, 391
- Spinel oxides
 an update of the Li metal-free rechargeable battery based on $\text{Li}_{1+x}\text{Mn}_2\text{O}_4$ cathodes and carbon anodes, 689
- Sulfide glass
 electrochemical behaviors of Li^+ ion conductor, $\text{Li}_3\text{PO}_4\text{-Li}_2\text{S-SiS}_2$, 135
- Sulfides
 nickel Chevrel-phase sulfides $\text{Ni}_x\text{Mo}_6\text{S}_{8-x}$ and $\text{Ni}_x\text{Mo}_6\text{S}_{8-x}\text{O}_n$ as the cathode of lithium secondary batteries, 651
- Sulfone-based electrolytes
 rechargeable $\gamma\text{-MnO}_2$ for lithium batteries using a sulfone-based electrolyte at 150 °C, 569
- Tellurium oxide
 inhomogeneous electrochemical lithiation of $\text{V}_2\text{O}_5\text{-TeO}_2$ binary glasses in a propylene carbonate solution, 645
- Thermal modelling
 thermal modelling of a high power Li/SOCl_2 cell with parallel plates, 309
- Thermal stability
 thermal stability of lithium anodes in an amorphous $\text{V}_2\text{O}_5/\text{Li}$ battery system, 517

Thin-film batteries

- fabrication and characterization of amorphous lithium electrolyte thin films and rechargeable thin-film batteries, 103
- thin-film vanadium oxide electrodes for lithium batteries, 127

Thin-film electrodes

- metallized microporous polypropylene membranes as a support for thin-film electrodes, 493

Thionyl chloride

- thermal modelling of a high power Li/SOCl₂ cell with parallel plates, 309
- a high power lithium thionyl chloride battery for space applications, 317
- polymer electrolyte coatings for lithium anodes in SOCl₂ cells, 385
- space-charge model of the SEI conduction in the Li/SOCl₂ system, 391

Thiospinels

- thiospinels as cathode for lithium secondary battery, 619

Titanium disulfide

- a model for the deliverable capacity of the TiS₂ electrode in a Li/TiS₂ cell, 181
- lithium insertion into TiS₂ from various electrolytes, 301
- design concepts of high power bipolar rechargeable lithium battery, 327
- the Li_xTiS₂|Li_(1-x)CoO₂ solid-state rocking chair battery, 481

Titanium oxide

- insertion of lithium into RuO₂-TiO₂ electrodes, 547

Transition metals

- the SWING system, a nonaqueous rechargeable carbon/metal oxide cell, 223
- transition metal displacement in cathodic host structures upon lithium intercalation, 277

Ultra-thin lithium batteries

- application of solid-polymer electrolyte in lithium batteries: ultra-thin film battery, 89

Vanadium

- potassium vanadates — promising materials for secondary lithium batteries, 561
- V₂O₄S — a new transition metal oxy-sulfide as positive for lithium batteries, 577
- reversible potassium vanadium bronze cathodes (K_xV₆O_{13+y}) with various potassium to vanadium ratios, 603

Vanadium oxides

- thermal stability of lithium anodes in an amorphous V₂O₅/Li battery system, 517
- characterization of Cu₂V₂O₇ as cathode material for lithium cells by X-ray and photoelectron spectroscopy, 589
- preparation and electrochemical characteristics of new Li-Mn-V-O system as positive materials for rechargeable lithium batteries, 635
- inhomogeneous electrochemical lithiation of V₂O₅-TeO₂ binary glasses in a propylene carbonate solution, 645

Vanadium oxide electrodes

- thin-film vanadium oxide electrodes for lithium batteries, 127