



ELSEVIER

Journal of Power Sources 90 (2000) 249–253

JOURNAL OF
**POWER
SOURCES**

www.elsevier.com/locate/jpowsour

Subject Index of Volume 90

Accelerated testing

Nickel hydroxide electrode; Ni–Cd pocket-plate battery; Cobalt co-precipitation; Cobalt oxide (Sjövall, R. (90) 153)

Additives

Sealed lead-acid cell; Electric scooters; Positive plates; Curing temperature (Chen, J.-S. (90) 125)

Aluminium

Anodizing; Surface oxide; Corrosion; FE-SEM; EQCM (Kawakita, J. (90) 182)

Aluminum corrosion potential

Fluoro organic lithium salt; Conductivity; Oxidation potential; Cycle characteristics (Kita, F. (90) 27)

Annealing treatment

Hydrogen storage alloy; Electrochemical property; Homogeneity; Hydrogen diffusion coefficient; *P–C–T* (Yang, X.G. (90) 170)

Anodizing

Aluminium; Surface oxide; Corrosion; FE-SEM; EQCM (Kawakita, J. (90) 182)

Batteries

Solid electrolyte; Solid state ionics; Silver ion conductor; Copper ion conductor (Owens, B.B. (90) 2)

Battery impedance

Lithium-ion battery; Electrical characteristics; Equivalent circuit; Nonlinear relationship; Laplace transform (Takano, K. (90) 214)

Calculation

Lithium ion cells; Cathode voltage; Coulomb potential (Yamaki, J.-i. (90) 116)

Capacity fading

Emulsion drying method; LiMn₂O₄; Particle disruption (Myung, S.-T. (90) 103)

Carbon anode

Conductive carbon additives; Li-ion batteries; Cyclability; Initial irreversible charging capacity (Takamura, T. (90) 45)

Carbon anodes

Sn dispersion; SnO dispersion (Lee, J.Y. (90) 70)

Cascade molecule

Solid polymer electrolyte; Polyethylene oxide; Polyacrylonitrile; Plasticizer; Conductive enhancer (Tsutsumi, H. (90) 33)

Cathode material for lithium ion batteries

LiCo_yMn_xNi_{1-x-y}O₂; The valence of Mn in LiCo_yMn_xNi_{1-x-y}O₂; Optimum preparation temperature; Electrochemical property (Yoshio, M. (90) 176)

Cathode voltage

Lithium ion cells; Calculation; Coulomb potential (Yamaki, J.-i. (90) 116)

Cellular phone

Lithium ion cell; Safety; Rechargeable cell (Tobishima, S.-i. (90) 188)

Ceramic fillers

Hyperbranched polymer; Composite polymer electrolytes; Compatibility; Mechanical property; Electrochemical stability (Wen, Z. (90) 20)

Cobalt coprecipitation

Nickel hydroxide electrode; Ni–Cd pocket-plate battery; Cobalt oxide; Accelerated testing (Sjövall, R. (90) 153)

Cobalt oxide

Nickel hydroxide electrode; Ni–Cd pocket-plate battery; Cobalt co-precipitation; Accelerated testing (Sjövall, R. (90) 153)

Co-dopant

Gadolinia-doped ceria; Pechini process; Solid oxide fuel cell; Electrical conductivity; Open-circuit voltage; Thermal expansion coefficient (Kim, N. (90) 139)

Compatibility

Hyperbranched polymer; Ceramic fillers; Composite polymer electrolytes; Mechanical property; Electrochemical stability (Wen, Z. (90) 20)

Composite polymer electrolytes

Hyperbranched polymer; Ceramic fillers; Compatibility; Mechanical property; Electrochemical stability (Wen, Z. (90) 20)

Conductive carbon additives

Carbon anode; Li-ion batteries; Cyclability; Initial irreversible charging capacity (Takamura, T. (90) 45)

Conductive enhancer

Solid polymer electrolyte; Polyethylene oxide; Polyacrylonitrile; Plasticizer; Cascade molecule (Tsutsumi, H. (90) 33)

Conductivity

Fluoro organic lithium salt; Oxidation potential; Aluminum corrosion potential; Cycle characteristics (Kita, F. (90) 27)

Copper ion conductor

Solid electrolyte; Solid state ionics; Batteries; Silver ion conductor (Owens, B.B. (90) 2)

Corrosion

Aluminium; Anodizing; Surface oxide; FE-SEM; EQCM (Kawakita, J. (90) 182)

Coulomb potential

Lithium ion cells; Cathode voltage; Calculation (Yamaki, J.-i. (90) 116)

Crystal structures

Intercalation compounds; Electrochemical intercalation; Lithium–ion conductivity (Hagenmuller, P. (90) 9)

Curing temperature

Sealed lead-acid cell; Electric scooters; Positive plates; Additives (Chen, J.-S. (90) 125)

Cyclability

Conductive carbon additives; Carbon anode; Li-ion batteries; Initial irreversible charging capacity (Takamura, T. (90) 45)

Spinel; Metal ion-doped spinel; Jahn–Teller distortion; Lithium secondary battery (Okada, M. (90) 196)

Cycle characteristics

Fluoro organic lithium salt; Conductivity; Oxidation potential; Aluminum corrosion potential (Kita, F. (90) 27)

Cycle stability

Microelectrode; Single particle; Lithium ion battery; Lithium manganese oxide; Lithium cobalt oxide (Dokko, K. (90) 109)

Cyclic voltammetry

Hydrogen storage alloy electrode; Surface treatment; Electrochemical impedance spectra (Weixiang, C. (90) 201)

Cycling performance

Li-alloy composite electrodes; Solid polymer electrolytes; Lithium rechargeable battery (Yang, J. (90) 64)

Electrical characteristics

Lithium-ion battery; Equivalent circuit; Battery impedance; Nonlinear relationship; Laplace transform (Takano, K. (90) 214)

Electrical conductivity

Gadolinia-doped ceria; Pechini process; Solid oxide fuel cell; Open-circuit voltage; Thermal expansion coefficient; Co-dopant (Kim, N. (90) 139)

Electric scooters

Sealed lead-acid cell; Positive plates; Additives; Curing temperature (Chen, J.-S. (90) 125)

Electric vehicle

Lithium-ion battery; Rechargeable battery (Kennedy, B. (90) 156)

Electrochemical charge/discharge measurements

Sintering time; Structure analysis (Gover, R. (90) 82)

Electrochemical impedance spectra

Hydrogen storage alloy electrode; Surface treatment; Cyclic voltammetry (Weixiang, C. (90) 201)

Electrochemical intercalation

Intercalation compounds; Crystal structures; Lithium–ion conductivity (Hagenmuller, P. (90) 9)

Electrochemical properties

Lithium ion battery; Lithium insertion; Intercalation compounds; X-ray diffraction (Tokumitsu, K. (90) 206)

Electrochemical property

Hydrogen storage alloy; Annealing treatment; Homogeneity; Hydrogen diffusion coefficient; *P–C–T* (Yang, X.G. (90) 170)

Cathode material for lithium ion batteries; $\text{LiCo}_y\text{Mn}_x\text{Ni}_{1-x-y}\text{O}_2$; The valence of Mn in $\text{LiCo}_y\text{Mn}_x\text{Ni}_{1-x-y}\text{O}$; Optimum preparation temperature (Yoshio, M. (90) 176)

Electrochemical stability

Hyperbranched polymer; Ceramic fillers; Composite polymer electrolytes; Compatibility; Mechanical property (Wen, Z. (90) 20)

Electrolyte decomposition

Lithium-ion cell; Graphite electrode; Lithium cobalt oxide electrode; In situ mass spectrometry; In situ infrared spectroscopy; In situ Raman mapping; In situ X-ray diffraction (Novák, P. (90) 52)

Elevated performance

Lithium; Lithium-ion batteries; Spinel; Manganese dioxide (Xia, Y. (90) 135)

Emulsion drying method

LiMn_2O_4 ; Capacity fading; Particle disruption (Myung, S.-T. (90) 103)

EQCM

Aluminium; Anodizing; Surface oxide; Corrosion; FE-SEM (Kawakita, J. (90) 182)

Equivalent circuit

Lithium-ion battery; Electrical characteristics; Battery impedance; Nonlinear relationship; Laplace transform (Takano, K. (90) 214)

FE-SEM

Aluminium; Anodizing; Surface oxide; Corrosion; EQCM (Kawakita, J. (90) 182)

Fluoro organic lithium salt

Conductivity; Oxidation potential; Aluminum corrosion potential; Cycle characteristics (Kita, F. (90) 27)

Fuel cell

Proton conductivity; Solid electrolyte; Phosphotungstic acid; Polybenzimidazole; Membrane (Staiti, P. (90) 231)

Gadolinia-doped ceria

Pechini process; Solid oxide fuel cell; Electrical conductivity; Open-circuit voltage; Thermal expansion coefficient; Co-dopant (Kim, N. (90) 139)

Gas diffusion electrodes

MFC; LiCoO_2 ; Sintering (Lundblad, A. (90) 224)

Gelification

Liquid–polymer systems; Polymer electrolyte membranes (Panero, S. (90) 13)

Graphite electrode

Lithium-ion cell; Lithium cobalt oxide electrode; Electrolyte decomposition; In situ mass spectrometry; In situ infrared spectroscopy; In situ Raman mapping; In situ X-ray diffraction (Novák, P. (90) 52)

Hearing aid

Li-ion button cell; Hearing aid cell; Safety (Passerini, S. (90) 144)

Hearing aid cell

Li-ion button cell; Hearing aid; Safety (Passerini, S. (90) 144)

High-temperature performance

Lithium nickelate; Positive electrode material; Lithium ion battery; Substitution; Thermal stability (Arai, H. (90) 76)

Homogeneity

Hydrogen storage alloy; Annealing treatment; Electrochemical property; Hydrogen diffusion coefficient; *P–C–T* (Yang, X.G. (90) 170)

HT method

Solid-state ^{7}Li NMR spectroscopy; LT method (Chu, P.P. (90) 95)

Hydrogen diffusion coefficient

Hydrogen storage alloy; Annealing treatment; Electrochemical property; Homogeneity; *P–C–T* (Yang, X.G. (90) 170)

Hydrogen storage alloy

Annealing treatment; Electrochemical property; Homogeneity; Hydrogen diffusion coefficient; *P–C–T* (Yang, X.G. (90) 170)

Hydrogen storage alloy electrode

Surface treatment; Cyclic voltammetry; Electrochemical impedance spectra (Weixiang, C. (90) 201)

Hyperbranched polymer

Ceramic fillers; Composite polymer electrolytes; Compatibility; Mechanical property; Electrochemical stability (Wen, Z. (90) 20)

Initial irreversible charging capacity

Conductive carbon additives; Carbon anode; Li-ion batteries; Cyclability (Takamura, T. (90) 45)

In situ infrared spectroscopy

Lithium-ion cell; Graphite electrode; Lithium cobalt oxide electrode; Electrolyte decomposition; In situ mass spectrometry; In situ Raman mapping; In situ X-ray diffraction (Novák, P. (90) 52)

In situ mass spectrometry

Lithium-ion cell; Graphite electrode; Lithium cobalt oxide electrode; Electrolyte decomposition; In situ infrared spectroscopy; In situ Raman mapping; In situ X-ray diffraction (Novák, P. (90) 52)

In situ Raman mapping

Lithium-ion cell; Graphite electrode; Lithium cobalt oxide electrode; Electrolyte decomposition; In situ mass spectrometry; In situ infrared spectroscopy; In situ X-ray diffraction (Novák, P. (90) 52)

In situ X-ray diffraction

Lithium-ion cell; Graphite electrode; Lithium cobalt oxide electrode; Electrolyte decomposition; In situ mass spectrometry; In situ infrared spectroscopy; In situ Raman mapping (Novák, P. (90) 52)

- Intercalation compounds
 Electrochemical intercalation; Crystal structures; Lithium-ion conductivity (Hagenmuller, P. (90) 9)
- Lithium ion battery; Lithium insertion; X-ray diffraction; Electrochemical properties (Tokumitsu, K. (90) 206)
- Irreversible capacity
 Li-ion battery; Thin lithium film on separator (Zeng, S. (90) 39)
- Jahn–Teller distortion
 Spinel; Metal ion-doped spinel; Cyclability; Lithium secondary battery (Okada, M. (90) 196)
- Laplace transform
 Lithium-ion battery; Electrical characteristics; Equivalent circuit; Battery impedance; Nonlinear relationship (Takano, K. (90) 214)
- Li-alloy composite electrodes
 Solid polymer electrolytes; Lithium rechargeable battery; Cycling performance (Yang, J. (90) 64)
- $\text{LiCo}_y\text{Mn}_x\text{Ni}_{1-x-y}\text{O}_2$
 Cathode material for lithium ion batteries; The valence of Mn in $\text{LiCo}_y\text{Mn}_x\text{Ni}_{1-x-y}\text{O}_2$; Optimum preparation temperature; Electrochemical property (Yoshio, M. (90) 176)
- LiCoO_2
 MCFC; Gas diffusion electrodes; Sintering (Lundblad, A. (90) 224)
- Li-ion batteries
 Conductive carbon additives; Carbon anode; Cyclability; Initial irreversible charging capacity (Takamura, T. (90) 45)
- Li-ion battery
 Irreversible capacity; Thin lithium film on separator (Zeng, S. (90) 39)
- Li-ion button cell
 Hearing aid cell; Hearing aid; Safety (Passerini, S. (90) 144)
- LiMn_2O_4
 Emulsion drying method; Capacity fading; Particle disruption (Myung, S.-T. (90) 103)
- Liquid–polymer systems
 Gelification; Polymer electrolyte membranes (Panero, S. (90) 13)
- Lithium
 Lithium-ion batteries; Spinel; Manganese dioxide; Elevated performance (Xia, Y. (90) 135)
- Lithium cobalt oxide
 Microelectrode; Single particle; Cycle stability; Lithium ion battery; Lithium manganese oxide (Dokko, K. (90) 109)
- Lithium cobalt oxide electrode
 Lithium-ion cell; Graphite electrode; Electrolyte decomposition; In situ mass spectrometry; In situ infrared spectroscopy; In situ Raman mapping; In situ X-ray diffraction (Novák, P. (90) 52)
- Lithium insertion
 Lithium ion battery; Intercalation compounds; X-ray diffraction; Electrochemical properties (Tokumitsu, K. (90) 206)
- Lithium-ion batteries
 Lithium; Spinel; Manganese dioxide; Elevated performance (Xia, Y. (90) 135)
- Lithium ion battery
 Lithium nickelate; Positive electrode material; Substitution; High-temperature performance; Thermal stability (Arai, H. (90) 76)
- Microelectrode; Single particle; Cycle stability; Lithium manganese oxide; Lithium cobalt oxide (Dokko, K. (90) 109)
- Lithium-ion battery
 Electric vehicle; Rechargeable battery (Kennedy, B. (90) 156)
- Lithium ion battery
 Lithium insertion; Intercalation compounds; X-ray diffraction; Electrochemical properties (Tokumitsu, K. (90) 206)
- Lithium-ion battery
 Electrical characteristics; Equivalent circuit; Battery impedance; Nonlinear relationship; Laplace transform (Takano, K. (90) 214)
- Lithium-ion cell
 Graphite electrode; Lithium cobalt oxide electrode; Electrolyte decomposition; In situ mass spectrometry; In situ infrared spectroscopy; In situ Raman mapping; In situ X-ray diffraction (Novák, P. (90) 52)
- Lithium ion cell
 Safety; Rechargeable cell; Cellular phone (Tobishima, S.-i. (90) 188)
- Lithium ion cells
 Cathode voltage; Calculation; Coulomb potential (Yamaki, J.-i. (90) 116)
- Lithium–ion conductivity
 Intercalation compounds; Electrochemical intercalation; Crystal structures (Hagenmuller, P. (90) 9)
- Lithium-ion secondary cells
 Low-temperature synthesis; Lithium nickelate (Maruta, J. (90) 89)
- Lithium manganese oxide
 Microelectrode; Single particle; Cycle stability; Lithium ion battery; Lithium cobalt oxide (Dokko, K. (90) 109)
- Lithium nickelate
 Positive electrode material; Lithium ion battery; Substitution; High-temperature performance; Thermal stability (Arai, H. (90) 76)
- Low-temperature synthesis; Lithium-ion secondary cells (Maruta, J. (90) 89)
- Lithium rechargeable battery
 Li-alloy composite electrodes; Solid polymer electrolytes; Cycling performance (Yang, J. (90) 64)
- Lithium secondary battery
 Spinel; Metal ion-doped spinel; Cyclability; Jahn–Teller distortion (Okada, M. (90) 196)
- Low-temperature synthesis
 Lithium nickelate; Lithium-ion secondary cells (Maruta, J. (90) 89)
- LT method
 Solid-state ${}^7\text{Li}$ NMR spectroscopy; HT method (Chu, P.P. (90) 95)
- Manganese dioxide
 Lithium; Lithium-ion batteries; Spinel; Elevated performance (Xia, Y. (90) 135)
- MCFC
 LiCoO_2 ; Gas diffusion electrodes; Sintering (Lundblad, A. (90) 224)
- Mechanical alloying
 Mg–Ni alloys; Secondary lithium batteries (Kim, H. (90) 59)
- Mechanical property
 Hyperbranched polymer; Ceramic fillers; Composite polymer electrolytes; Compatibility; Electrochemical stability (Wen, Z. (90) 20)
- Membrane
 Proton conductivity; Solid electrolyte; Phosphotungstic acid; Polybenzimidazole; Fuel cell (Staiti, P. (90) 231)
- Metal ion-doped spinel
 Spinel; Cyclability; Jahn–Teller distortion; Lithium secondary battery (Okada, M. (90) 196)
- Mg–Ni alloys
 Secondary lithium batteries; Mechanical alloying (Kim, H. (90) 59)
- Microelectrode
 Single particle; Cycle stability; Lithium ion battery; Lithium manganese oxide; Lithium cobalt oxide (Dokko, K. (90) 109)
- Ni–Cd pocket-plate battery
 Nickel hydroxide electrode; Cobalt coprecipitation; Cobalt oxide; Accelerated testing (Sjövall, R. (90) 153)
- Nickel hydroxide electrode
 Ni–Cd pocket-plate battery; Cobalt coprecipitation; Cobalt oxide; Accelerated testing (Sjövall, R. (90) 153)
- Nonlinear relationship
 Lithium-ion battery; Electrical characteristics; Equivalent circuit; Battery impedance; Laplace transform (Takano, K. (90) 214)

- Open-circuit voltage**
 Gadolinia-doped ceria; Pechini process; Solid oxide fuel cell; Electrical conductivity; Thermal expansion coefficient; Co-dopant (Kim, N. (90) 139)
- Optimum preparation temperature**
 Cathode material for lithium ion batteries; $\text{LiCo}_y\text{Mn}_x\text{Ni}_{1-x-y}\text{O}_2$; The valence of Mn in $\text{LiCo}_y\text{Mn}_x\text{Ni}_{1-x-y}\text{O}$; Electrochemical property (Yoshio, M. (90) 176)
- Oxidation potential**
 Fluoro organic lithium salt; Conductivity; Aluminum corrosion potential; Cycle characteristics (Kita, F. (90) 27)
- Particle disruption**
 Emulsion drying method; LiMn_2O_4 ; Capacity fading (Myung, S.-T. (90) 103)
- P-C-T**
 Hydrogen storage alloy; Annealing treatment; Electrochemical property; Homogeneity; Hydrogen diffusion coefficient (Yang, X.G. (90) 170)
- Pechini process**
 Gadolinia-doped ceria; Solid oxide fuel cell; Electrical conductivity; Open-circuit voltage; Thermal expansion coefficient; Co-dopant (Kim, N. (90) 139)
- Phosphotungstic acid**
 Proton conductivity; Solid electrolyte; Polybenzimidazole; Membrane; Fuel cell (Staiti, P. (90) 231)
- Plasticizer**
 Solid polymer electrolyte; Polyethylene oxide; Polyacrylonitrile; Cascade molecule; Conductive enhancer (Tsutsumi, H. (90) 33)
- Polyacrylonitrile**
 Solid polymer electrolyte; Polyethylene oxide; Plasticizer; Cascade molecule; Conductive enhancer (Tsutsumi, H. (90) 33)
- Polybenzimidazole**
 Proton conductivity; Solid electrolyte; Phosphotungstic acid; Membrane; Fuel cell (Staiti, P. (90) 231)
- Polyethylene oxide**
 Solid polymer electrolyte; Polyacrylonitrile; Plasticizer; Cascade molecule; Conductive enhancer (Tsutsumi, H. (90) 33)
- Polymer electrolyte membranes**
 Gelification; Liquid-polymer systems (Panero, S. (90) 13)
- Positive electrode material**
 Lithium nickelate; Lithium ion battery; Substitution; High-temperature performance; Thermal stability (Arai, H. (90) 76)
- Positive plates**
 Sealed lead-acid cell; Electric scooters; Additives; Curing temperature (Chen, J.-S. (90) 125)
- Proton conductivity**
 Solid electrolyte; Phosphotungstic acid; Polybenzimidazole; Membrane; Fuel cell (Staiti, P. (90) 231)
- Rechargeable battery**
 Lithium-ion battery; Electric vehicle (Kennedy, B. (90) 156)
- Rechargeable cell**
 Lithium ion cell; Safety; Cellular phone (Tobishima, S.-i. (90) 188)
- Safety**
 Li-ion button cell; Hearing aid cell; Hearing aid (Passerini, S. (90) 144)
 Lithium ion cell; Rechargeable cell; Cellular phone (Tobishima, S.-i. (90) 188)
- Sealed lead-acid cell**
 Electric scooters; Positive plates; Additives; Curing temperature (Chen, J.-S. (90) 125)
- Sealing material**
 Solid oxide fuel cell; Thermal cycle; Structure (Taniguchi, S. (90) 163)
- Secondary lithium batteries**
 Mg-Ni alloys; Mechanical alloying (Kim, H. (90) 59)
- Silver ion conductor**
 Solid electrolyte; Solid state ionics; Batteries; Copper ion conductor (Owens, B.B. (90) 2)
- Single particle**
 Microelectrode; Cycle stability; Lithium ion battery; Lithium manganese oxide; Lithium cobalt oxide (Dokko, K. (90) 109)
- Sintering**
 MCFC; LiCoO_2 ; Gas diffusion electrodes (Lundblad, A. (90) 224)
- Sintering time**
 Electrochemical charge/discharge measurements; Structure analysis (Gover, R. (90) 82)
- Sn dispersion**
 SnO dispersion; Carbon anodes (Lee, J.Y. (90) 70)
- SnO dispersion**
 Sn dispersion; Carbon anodes (Lee, J.Y. (90) 70)
- Solid electrolyte**
 Solid state ionics; Batteries; Silver ion conductor; Copper ion conductor (Owens, B.B. (90) 2)
 Proton conductivity; Phosphotungstic acid; Polybenzimidazole; Membrane; Fuel cell (Staiti, P. (90) 231)
- Solid oxide fuel cell**
 Gadolinia-doped ceria; Pechini process; Electrical conductivity; Open-circuit voltage; Thermal expansion coefficient; Co-dopant (Kim, N. (90) 139)
 Thermal cycle; Sealing material; Structure (Taniguchi, S. (90) 163)
- Solid polymer electrolyte**
 Polyethylene oxide; Polyacrylonitrile; Plasticizer; Cascade molecule; Conductive enhancer (Tsutsumi, H. (90) 33)
- Solid polymer electrolytes**
 Li-alloy composite electrodes; Lithium rechargeable battery; Cycling performance (Yang, J. (90) 64)
- Solid state ionics**
 Solid electrolyte; Batteries; Silver ion conductor; Copper ion conductor (Owens, B.B. (90) 2)
- Solid-state ^7Li NMR spectroscopy**
 HT method; LT method (Chu, P.P. (90) 95)
- Spinel**
 Lithium; Lithium-ion batteries; Manganese dioxide; Elevated performance (Xia, Y. (90) 135)
 Metal ion-doped spinel; Cyclability; Jahn-Teller distortion; Lithium secondary battery (Okada, M. (90) 196)
- Structure**
 Solid oxide fuel cell; Thermal cycle; Sealing material (Taniguchi, S. (90) 163)
- Structure analysis**
 Sintering time; Electrochemical charge/discharge measurements (Gover, R. (90) 82)
- Substitution**
 Lithium nickelate; Positive electrode material; Lithium ion battery; High-temperature performance; Thermal stability (Arai, H. (90) 76)
- Surface oxide**
 Aluminum; Anodizing; Corrosion; FE-SEM; EQCM (Kawakita, J. (90) 182)
- Surface treatment**
 Hydrogen storage alloy electrode; Cyclic voltammetry; Electrochemical impedance spectra (Weixiang, C. (90) 201)
- Thermal cycle**
 Solid oxide fuel cell; Sealing material; Structure (Taniguchi, S. (90) 163)
- Thermal expansion coefficient**
 Gadolinia-doped ceria; Pechini process; Solid oxide fuel cell; Electrical conductivity; Open-circuit voltage; Co-dopant (Kim, N. (90) 139)

Thermal stability

Lithium nickelate; Positive electrode material; Lithium ion battery;
Substitution; High-temperature performance (Arai, H. (90) 76)
The valence of Mn in $\text{LiCo}_y\text{Mn}_x\text{Ni}_{1-x-y}\text{O}$
Cathode material for lithium ion batteries; $\text{LiCo}_y\text{Mn}_x\text{Ni}_{1-x-y}\text{O}_2$;
Optimum preparation temperature; Electrochemical property
(Yoshio, M. (90) 176)

Thin lithium film on separator

Li-ion battery; Irreversible capacity (Zeng, S. (90) 39)

X-ray diffraction

Lithium ion battery; Lithium insertion; Intercalation compounds;
Electrochemical properties (Tokumitsu, K. (90) 206)