

Subject Index of Volume 101

- Accelerated life study
Li-ion cells; Arrhenius kinetics; Parabolic (*VE*) kinetics (Bloom, I. (101) 238)
- Activated carbon
Supercapacitor; Specific capacitance; Porosity (Gamby, J. (101) 109)
- Active material utilization
Cobalt hydroxide; Nickel electrode; Surface modification (Shao-an, C. (101) 248)
- Alkaline batteries
Battery dismantling; Zinc recovery; Zinc electrodeposition (Vatistas, N. (101) 182)
- Alkaline battery
Ferrate analysis; Fe(VI) analysis; Fe(VI) cathode; Super-iron analysis; Super-iron battery (Licht, S. (101) 167)
- Alkaline fuel cell
Membrane characterization; Solid polymer electrolyte; Electrode-membrane interface (Agel, E. (101) 267)
- Alloy anode
Lithium secondary battery; Mechanical stability; Particulate-reinforced composite (Jeong, G.-J. (101) 201)
- Alternate mode
VRLA batteries; Standby applications; Float charging; Current-interrupt (Rossinot, E. (101) 27)
- Aluminum salt
In situ sintering; Electrolyte matrix; Molten carbonate fuel cell; Pre-milling (Lee, I. (101) 90)
- Anode film
Tin oxide; Surface roughness; Cut-off voltage; Microbattery; Silicon-doping (Kim, Y.I. (101) 253)
- Anode materials
Graphite; Iodine; Lithium-ion batteries (Wang, H. (101) 35)
- Arrhenius kinetics
Accelerated life study; Li-ion cells; Parabolic (*VE*) kinetics (Bloom, I. (101) 238)
- Autothermal reforming process
Natural gas; Carbon monoxide (CO) (Chan, S.H. (101) 188)
- Batteries
Lithium-ion; Safety devices; Thermal characteristics; Impedance (Venugopal, G. (101) 231)
- Battery dismantling
Alkaline batteries; Zinc recovery; Zinc electrodeposition (Vatistas, N. (101) 182)
- Battery modeling
Nickel–metal hydride battery; Nickel electrode; Hysteresis potential behavior (Wu, B. (101) 149)
- Binder
Carbon black; Electrolyte decomposition; Thermal stability (Fransson, L. (101) 1)
- Carbon black
Binder; Electrolyte decomposition; Thermal stability (Fransson, L. (101) 1)
- Carbon monoxide (CO)
Natural gas; Autothermal reforming process (Chan, S.H. (101) 188)
- Carbon
Initial irreversible capacity; Initial intercalation Ah efficiency; Initial irreversible; Specific capacity; Latent capacity (Doh, C.-H. (101) 96)
- Catalytic activity
Steam reforming; Solid oxide; Fuel cell; Internal reforming (Sauvet, A.-L. (101) 259)
- Charge algorithm
Fast charge; EV battery; Nickel metal hydride batteries; Internal pressure control; Charge efficiency (Yang, X.G. (101) 158)
- Charge efficiency
Fast charge; EV battery; Nickel metal hydride batteries; Charge algorithm; Internal pressure control (Yang, X.G. (101) 158)
- Charge-transfer resistance
Valve-regulated lead/acid cell; Lead dioxide electrode; Paste (Yeh, C.-H. (101) 219)
- Chloride bath
Lead; Electrowinning; Hydrogen diffusion anode (Expósito, E. (101) 103)
- Cobalt hydroxide
Nickel electrode; Surface modification; Active material utilization (Shao-an, C. (101) 248)
- Copper
Propylene carbonate; Corrosion; FE-SEM; EQCM (Kawakita, J. (101) 47)
- Corrosion
Copper; Propylene carbonate; FE-SEM; EQCM (Kawakita, J. (101) 47)
- Current-interrupt
VRLA batteries; Standby applications; Float charging; Alternate mode (Rossinot, E. (101) 27)
- Cut-off voltage
Anode film; Tin oxide; Surface roughness; Microbattery; Silicon-doping (Kim, Y.I. (101) 253)
- Dehydration
Proton-exchange-membrane fuel cell; Water transport; Net electro-osmotic drag coefficient (Janssen, G.J.M. (101) 117)
- Electrochemical capacitor
Magnesium ion conductor; Solid electrolyte; Polymer-gel; High density graphite; Power source (Mitra, S. (101) 213)
- Electrochemical cell
Ionic conductivity; Polymer electrolyte; Transport number; Sodium chlorite (Naresh Kumar, K. (101) 130)
- Electrode flooding
Membrane dehydration; Modeling; Polymer electrolyte fuel cells; Water transport (Maggio, G. (101) 275)
- Electrode-membrane interface
Membrane characterization; Alkaline fuel cell; Solid polymer electrolyte (Agel, E. (101) 267)
- Electrolyte decomposition
Carbon black; Binder; Thermal stability (Fransson, L. (101) 1)

- Electrolyte matrix
In situ sintering; Molten carbonate fuel cell; Pre-milling; Aluminum salt (Lee, I. (101) 90)
- Electrowinning
Lead; Hydrogen diffusion anode; Chloride bath (Expósito, E. (101) 103)
- Energy assessment
Solid oxide fuel cell; Life cycle analysis; Manufacturing; Environmental impact; Recycling (Karakoussis, V. (101) 10)
- Environmental impact
Solid oxide fuel cell; Life cycle analysis; Manufacturing; Energy assessment; Recycling (Karakoussis, V. (101) 10)
- EQCM
Copper; Propylene carbonate; Corrosion; FE-SEM (Kawakita, J. (101) 47)
- EV battery
Fast charge; Nickel metal hydride batteries; Charge algorithm; Internal pressure control; Charge efficiency (Yang, X.G. (101) 158)
- EV battery
Li-ion; Plastic Li-ion; Safety test (Han, K.N. (101) 196)
- Fast charge
EV battery; Nickel metal hydride batteries; Charge algorithm; Internal pressure control; Charge efficiency (Yang, X.G. (101) 158)
- Fe(VI) analysis
Ferrate analysis; Fe(VI) cathode; Super-iron analysis; Super-iron battery; Alkaline battery (Licht, S. (101) 167)
- Fe(VI) cathode
Ferrate analysis; Fe(VI) analysis; Super-iron analysis; Super-iron battery; Alkaline battery (Licht, S. (101) 167)
- FE-SEM
Copper; Propylene carbonate; Corrosion; EQCM (Kawakita, J. (101) 47)
- Ferrate analysis
Fe(VI) analysis; Fe(VI) cathode; Super-iron analysis; Super-iron battery; Alkaline battery (Licht, S. (101) 167)
- Float charging
VRLA batteries; Standby applications; Alternate mode; Current-interrupt (Rossinot, E. (101) 27)
- Formation cycle
Neutron radiography; Lithium-ion batteries; In situ methods; Gas evolution (Lanz, M. (101) 177)
- Fuel cell
Nafion; Polymer; Humidification; Membrane (Sridhar, P. (101) 72)
- Fuel cell
Steam reforming; Solid oxide; Catalytic activity; Internal reforming (Sauvet, A.-L. (101) 259)
- Gas evolution
Neutron radiography; Lithium-ion batteries; In situ methods; Formation cycle (Lanz, M. (101) 177)
- Graphite
Iodine; Lithium-ion batteries; Anode materials (Wang, H. (101) 35)
- Graphite
Negative electrodes; PVC-carbon coating; Irreversible capacity; Li-ion battery (Lee, H.-Y. (101) 206)
- High density graphite
Magnesium ion conductor; Solid electrolyte; Polymer-gel; Electrochemical capacitor; Power source (Mitra, S. (101) 213)
- Humidification
Fuel cell; Nafion; Polymer; Membrane (Sridhar, P. (101) 72)
- Hydrogen diffusion anode
Lead; Electrowinning; Chloride bath (Expósito, E. (101) 103)
- Hysteresis potential behavior
Nickel-metal hydride battery; Battery modeling; Nickel electrode (Wu, B. (101) 149)
- Impedance
Lithium-ion; Batteries; Safety devices; Thermal characteristics (Venugopal, G. (101) 231)
- In situ methods
Neutron radiography; Lithium-ion batteries; Formation cycle; Gas evolution (Lanz, M. (101) 177)
- In situ sintering
Electrolyte matrix; Molten carbonate fuel cell; Pre-milling; Aluminum salt (Lee, I. (101) 90)
- Initial intercalation Ah efficiency
Carbon; Initial irreversible capacity; Initial irreversible; Specific capacity; Latent capacity (Doh, C.-H. (101) 96)
- Initial irreversible capacity
Carbon; Initial intercalation Ah efficiency; Initial irreversible; Specific capacity; Latent capacity (Doh, C.-H. (101) 96)
- Initial irreversible
Carbon; Initial irreversible capacity; Initial intercalation Ah efficiency; Specific capacity; Latent capacity (Doh, C.-H. (101) 96)
- Internal pressure control
Fast charge; EV battery; Nickel metal hydride batteries; Charge algorithm; Charge efficiency (Yang, X.G. (101) 158)
- Internal reform
Solid oxide fuel cell (SOFC); Tubular SOFC; Simulation (Nagata, S. (101) 60)
- Internal reforming
Steam reforming; Solid oxide; Fuel cell; Catalytic activity (Sauvet, A.-L. (101) 259)
- Iodine
Graphite; Lithium-ion batteries; Anode materials (Wang, H. (101) 35)
- Ionic conductivity
Polymer electrolyte; Transport number; Electrochemical cell; Sodium chlorite (Naresh Kumar, K. (101) 130)
- Ionic liquid
Sodium battery; Vanadium pentoxide (Su, L. (101) 226)
- Irreversible capacity
Graphite; Negative electrodes; PVC-carbon coating; Li-ion battery (Lee, H.-Y. (101) 206)
- Latent capacity
Carbon; Initial irreversible capacity; Initial intercalation Ah efficiency; Initial irreversible; Specific capacity (Doh, C.-H. (101) 96)
- Lead dioxide electrode
Valve-regulated lead/acid cell; Paste; Charge-transfer resistance (Yeh, C.-H. (101) 219)
- Lead
Electrowinning; Hydrogen diffusion anode; Chloride bath (Expósito, E. (101) 103)
- Li-ion battery
Graphite; Negative electrodes; PVC-carbon coating; Irreversible capacity (Lee, H.-Y. (101) 206)
- Li-ion cells
Accelerated life study; Arrhenius kinetics; Parabolic (*VE*) kinetics (Bloom, I. (101) 238)
- Li-ion
Plastic Li-ion; EV battery; Safety test (Han, K.N. (101) 196)
- $\text{Li}_{4/3}\text{Ti}_{5/3}\text{O}_4$
Lithium ion battery; Power storage; LiCoO_2 ; LiMn_2O_4 (Majima, M. (101) 53)
- LiCoO_2
Lithium ion battery; Power storage; LiMn_2O_4 ; $\text{Li}_{4/3}\text{Ti}_{5/3}\text{O}_4$ (Majima, M. (101) 53)
- Life cycle analysis
Solid oxide fuel cell; Manufacturing; Environmental impact; Energy assessment; Recycling (Karakoussis, V. (101) 10)
- LiMn_2O_4
Lithium ion battery; Power storage; LiCoO_2 ; $\text{Li}_{4/3}\text{Ti}_{5/3}\text{O}_4$ (Majima, M. (101) 53)

- LiMn₂O₄
Sol-gel method; Purity; Lithium battery (Hwang, B.J. (101) 86)
- Lithium batteries
Polymer electrolyte; PEO (Appetecchi, G.B. (101) 42)
- Lithium battery
LiMn₂O₄; Sol-gel method; Purity (Hwang, B.J. (101) 86)
- Lithium ion battery
Power storage; LiCoO₂; LiMn₂O₄; Li_{4/3}Ti_{5/3}O₄ (Majima, M. (101) 53)
- Lithium secondary battery
Alloy anode; Mechanical stability; Particulate-reinforced composite (Jeong, G.-J. (101) 201)
- Lithium
Lithium-ion batteries; Spinel; Manganese oxides (Yoshio, M. (101) 79)
- Lithium-ion batteries
Graphite; Iodine; Anode materials (Wang, H. (101) 35)
- Lithium-ion batteries
Lithium; Spinel; Manganese oxides (Yoshio, M. (101) 79)
- Lithium-ion batteries
Neutron radiography; In situ methods; Formation cycle; Gas evolution (Lanz, M. (101) 177)
- Lithium-ion
Batteries; Safety devices; Thermal characteristics; Impedance (Venugopal, G. (101) 231)
- Magnesium ion conductor
Solid electrolyte; Polymer-gel; Electrochemical capacitor; High density graphite; Power source (Mitra, S. (101) 213)
- Manganese oxides
Lithium; Lithium-ion batteries; Spinel (Yoshio, M. (101) 79)
- Manufacturing
Solid oxide fuel cell; Life cycle analysis; Environmental impact; Energy assessment; Recycling (Karakoussis, V. (101) 10)
- Mechanical stability
Lithium secondary battery; Alloy anode; Particulate-reinforced composite (Jeong, G.-J. (101) 201)
- Membrane characterization
Alkaline fuel cell; Solid polymer electrolyte; Electrode-membrane interface (Agel, E. (101) 267)
- Membrane dehydration
Electrode flooding; Modeling; Polymer electrolyte fuel cells; Water transport (Maggio, G. (101) 275)
- Membrane
Fuel cell; Nafion; Polymer; Humidification (Sridhar, P. (101) 72)
- Microbattery
Anode film; Tin oxide; Surface roughness; Cut-off voltage; Silicon-doping (Kim, Y.I. (101) 253)
- Modeling
Electrode flooding; Membrane dehydration; Polymer electrolyte fuel cells; Water transport (Maggio, G. (101) 275)
- Molten carbonate fuel cell
In situ sintering; Electrolyte matrix; Pre-milling; Aluminum salt (Lee, I. (101) 90)
- Nafion
Fuel cell; Polymer; Humidification; Membrane (Sridhar, P. (101) 72)
- Natural gas
Carbon monoxide (CO); Autothermal reforming process (Chan, S.H. (101) 188)
- Negative electrodes
Graphite; PVC-carbon coating; Irreversible capacity; Li-ion battery (Lee, H.-Y. (101) 206)
- Net electro-osmotic drag coefficient
Proton-exchange-membrane fuel cell; Water transport; Dehydration (Janssen, G.J.M. (101) 117)
- Neutron radiography
Lithium-ion batteries; In situ methods; Formation cycle; Gas evolution (Lanz, M. (101) 177)
- Nickel electrode
Cobalt hydroxide; Surface modification; Active material utilization (Shao-an, C. (101) 248)
- Nickel electrode
Nickel-metal hydride battery; Battery modeling; Hysteresis potential behavior (Wu, B. (101) 149)
- Nickel metal hydride batteries
Fast charge; EV battery; Charge algorithm; Internal pressure control; Charge efficiency (Yang, X.G. (101) 158)
- Nickel-metal hydride battery
Battery modeling; Nickel electrode; Hysteresis potential behavior (Wu, B. (101) 149)
- Parabolic (*VE*) kinetics
Accelerated life study; Li-ion cells; Arrhenius kinetics (Bloom, I. (101) 238)
- Particulate-reinforced composite
Lithium secondary battery; Alloy anode; Mechanical stability (Jeong, G.-J. (101) 201)
- Paste
Valve-regulated lead/acid cell; Lead dioxide electrode; Charge-transfer resistance (Yeh, C.-H. (101) 219)
- PEO
Polymer electrolyte; Lithium batteries (Appetecchi, G.B. (101) 42)
- Plastic Li-ion
Li-ion; EV battery; Safety test (Han, K.N. (101) 196)
- Polymer electrolyte fuel cells
Electrode flooding; Membrane dehydration; Modeling; Water transport (Maggio, G. (101) 275)
- Polymer electrolyte
Ionic conductivity; Transport number; Electrochemical cell; Sodium chlorite (Naresh Kumar, K. (101) 130)
- Polymer electrolyte
PEO; Lithium batteries (Appetecchi, G.B. (101) 42)
- Polymer
Fuel cell; Nafion; Humidification; Membrane (Sridhar, P. (101) 72)
- Polymer-gel
Magnesium ion conductor; Solid electrolyte; Electrochemical capacitor; High density graphite; Power source (Mitra, S. (101) 213)
- Porosity
Supercapacitor; Activated carbon; Specific capacitance (Gamby, J. (101) 109)
- Power source
Magnesium ion conductor; Solid electrolyte; Polymer-gel; Electrochemical capacitor; High density graphite (Mitra, S. (101) 213)
- Power storage
Lithium ion battery; LiCoO₂; LiMn₂O₄; Li_{4/3}Ti_{5/3}O₄ (Majima, M. (101) 53)
- Pre-milling
In situ sintering; Electrolyte matrix; Molten carbonate fuel cell; Aluminum salt (Lee, I. (101) 90)
- Propylene carbonate
Copper; Corrosion; FE-SEM; EQCM (Kawakita, J. (101) 47)
- Proton-exchange-membrane fuel cell
Water transport; Dehydration; Net electro-osmotic drag coefficient (Janssen, G.J.M. (101) 117)
- Purity
LiMn₂O₄; Sol-gel method; Lithium battery (Hwang, B.J. (101) 86)
- PVC-carbon coating
Graphite; Negative electrodes; Irreversible capacity; Li-ion battery (Lee, H.-Y. (101) 206)
- Recycling
Solid oxide fuel cell; Life cycle analysis; Manufacturing; Environmental impact; Energy assessment (Karakoussis, V. (101) 10)

- Ruthenium oxide
Solid state; Thin film; Solid electrolyte; Supercapacitor; Sputtering (Yoon, Y.S. (101) 126)
- Safety devices
Lithium-ion; Batteries; Thermal characteristics; Impedance (Venugopal, G. (101) 231)
- Safety test
Li-ion; Plastic Li-ion; EV battery (Han, K.N. (101) 196)
- Silicon-doping
Anode film; Tin oxide; Surface roughness; Cut-off voltage; Microbattery (Kim, Y.I. (101) 253)
- Simulation
Solid oxide fuel cell (SOFC); Tubular SOFC; Internal reform (Nagata, S. (101) 60)
- Sodium battery
Ionic liquid; Vanadium pentoxide (Su, L. (101) 226)
- Sodium chlorite
Ionic conductivity; Polymer electrolyte; Transport number; Electrochemical cell (Naresh Kumar, K. (101) 130)
- Sol-gel method
LiMn₂O₄; Purity; Lithium battery (Hwang, B.J. (101) 86)
- Solid electrolyte
Magnesium ion conductor; Polymer-gel; Electrochemical capacitor; High density graphite; Power source (Mitra, S. (101) 213)
- Solid electrolyte
Ruthenium oxide; Solid state; Thin film; Supercapacitor; Sputtering (Yoon, Y.S. (101) 126)
- Solid oxide fuel cell (SOFC)
Tubular SOFC; Internal reform; Simulation (Nagata, S. (101) 60)
- Solid oxide fuel cell
Life cycle analysis; Manufacturing; Environmental impact; Energy assessment; Recycling (Karakoussis, V. (101) 10)
- Solid oxide
Steam reforming; Fuel cell; Catalytic activity; Internal reforming (Sauvet, A.-L. (101) 259)
- Solid polymer electrolyte
Membrane characterization; Alkaline fuel cell; Electrode-membrane interface (Agel, E. (101) 267)
- Solid state
Ruthenium oxide; Thin film; Solid electrolyte; Supercapacitor; Sputtering (Yoon, Y.S. (101) 126)
- Specific capacitance
Supercapacitor; Activated carbon; Porosity (Gamby, J. (101) 109)
- Specific capacity
Carbon; Initial irreversible capacity; Initial intercalation Ah efficiency; Initial irreversible; Latent capacity (Doh, C.-H. (101) 96)
- Spinel
Lithium; Lithium-ion batteries; Manganese oxides (Yoshio, M. (101) 79)
- Sputtering
Ruthenium oxide; Solid state; Thin film; Solid electrolyte; Supercapacitor (Yoon, Y.S. (101) 126)
- Standby applications
VRLA batteries; Float charging; Alternate mode; Current-interrupt (Rossinot, E. (101) 27)
- Steam reforming
Solid oxide; Fuel cell; Catalytic activity; Internal reforming (Sauvet, A.-L. (101) 259)
- Super-iron analysis
Ferrate analysis; Fe(VI) analysis; Fe(VI) cathode; Super-iron battery; Alkaline battery (Licht, S. (101) 167)
- Super-iron battery
Ferrate analysis; Fe(VI) analysis; Fe(VI) cathode; Super-iron analysis; Alkaline battery (Licht, S. (101) 167)
- Supercapacitor
Activated carbon; Specific capacitance; Porosity (Gamby, J. (101) 109)
- Supercapacitor
Ruthenium oxide; Solid state; Thin film; Solid electrolyte; Sputtering (Yoon, Y.S. (101) 126)
- Surface modification
Cobalt hydroxide; Nickel electrode; Active material utilization (Shaoan, C. (101) 248)
- Surface roughness
Anode film; Tin oxide; Cut-off voltage; Microbattery; Silicon-doping (Kim, Y.I. (101) 253)
- Thermal characteristics
Lithium-ion; Batteries; Safety devices; Impedance (Venugopal, G. (101) 231)
- Thermal stability
Carbon black; Binder; Electrolyte decomposition (Fransson, L. (101) 1)
- Thin film
Ruthenium oxide; Solid state; Solid electrolyte; Supercapacitor; Sputtering (Yoon, Y.S. (101) 126)
- Tin oxide
Anode film; Surface roughness; Cut-off voltage; Microbattery; Silicon-doping (Kim, Y.I. (101) 253)
- Transport number
Ionic conductivity; Polymer electrolyte; Electrochemical cell; Sodium chlorite (Naresh Kumar, K. (101) 130)
- Tubular SOFC
Solid oxide fuel cell (SOFC); Internal reform; Simulation (Nagata, S. (101) 60)
- Valve-regulated lead/acid cell
Lead dioxide electrode; Paste; Charge-transfer resistance (Yeh, C.-H. (101) 219)
- Vanadium pentoxide
Sodium battery; Ionic liquid (Su, L. (101) 226)
- VRLA batteries
Standby applications; Float charging; Alternate mode; Current-interrupt (Rossinot, E. (101) 27)
- Water transport
Electrode flooding; Membrane dehydration; Modeling; Polymer electrolyte fuel cells (Maggio, G. (101) 275)
- Water transport
Proton-exchange-membrane fuel cell; Dehydration; Net electro-osmotic drag coefficient (Janssen, G.J.M. (101) 117)
- Zinc electrodeposition
Alkaline batteries; Battery dismantling; Zinc recovery (Vatistas, N. (101) 182)
- Zinc recovery
Alkaline batteries; Battery dismantling; Zinc electrodeposition (Vatistas, N. (101) 182)