

Subject Index of Volume 141

- ac impedance
Gel polymer electrolyte; Li-ion battery; Cyclic voltammetry; Mesocarbon microbeads; Specific discharge capacity (Kim, H.-S. (141) 311)
- Acetonitrile
Transference number; Transport properties; Lithium perchlorate; Propylene carbonate (Mauro, V. (141) 167)
- Activated carbon
Capacitor; State of charge; Adaptive algorithm; Control; Power capability (Verbrugge, M.W. (141) 369)
- Activated carbon
Composite; Supercapacitor; Specific capacitance; Pseudocapacitance; Electrochemical characterization (Dandekar, M.S. (141) 198)
- Activation
Electric double-layer capacitor; Carbon aerogel; Surface modification; Surfactant/sodium oleate; Propylene carbonate (Wei, Y.-Z. (141) 386)
- Adaptive algorithm
Capacitor; State of charge; Activated carbon; Control; Power capability (Verbrugge, M.W. (141) 369)
- Aging
Storage life; Capacity loss; Lithium-ion; Open-circuit voltage (Ramasamy, R.P. (141) 293)
- AlPO₄-coating
Li(Ni_{0.8}Co_{0.2})O₂; Cathode; Li-ion batteries; Thermal stability (Tan, K.S. (141) 129)
- Ammonium carbonate
Pore-former; Nafion[®]; High temperature; Proton exchange membrane fuel cell (Song, Y. (141) 250)
- Anode materials
Lithium-ion battery; Carbon-coated composite; Ni–Si alloy; Mechanical alloying (Lee, H.-Y. (141) 159)
- Anode supported
Solid oxide fuel cells; Cell parameters; Polarization; Current interruption (Zhao, F. (141) 79)
- Anode-supported.
Solid oxide fuel cells (SOFC); Cathode; LSM; Microstructure (Haanappel, V.A.C. (141) 216)
- Anode
Electrocatalysis; Fuel cells; Pt deposition; Ru/Pt nanoparticles; Methanol (Kuk, S.T. (141) 1)
- Anode
Tin phosphide; Capacity; Solid solution; Cycle performance; Lithium battery (Kim, Y.-U. (141) 163)
- Anodes
Solid oxide fuel cells (Costa-Nunes, O. (141) 241)
- Automotive industry
Fuel cell technology; R&D strategies; Technology commitment; Future assessment (van den Hoed, R. (141) 265)
- Battery modeling
Resistive companion modeling; Current controlled voltage source; Virtual test bed (Zhang, Q. (141) 359)
- Battery
Grafoil[®]; Graphite; Sheet; Collector; Intercalation (Yazici, M.S. (141) 171)
- Bipolar plate
Plasma polymerization; Water-proofing; Fuel cell (Taniguchi, A. (141) 8)
- Capacitor
State of charge; Activated carbon; Adaptive algorithm; Control; Power capability (Verbrugge, M.W. (141) 369)
- Capacity loss
Aging; Storage life; Lithium-ion; Open-circuit voltage (Ramasamy, R.P. (141) 293)
- Capacity
Tin phosphide; Anode; Solid solution; Cycle performance; Lithium battery (Kim, Y.-U. (141) 163)
- Carbon aerogel
Electric double-layer capacitor; Activation; Surface modification; Surfactant/sodium oleate; Propylene carbonate (Wei, Y.-Z. (141) 386)
- Carbon paper
Current collector; Lithium-ion batteries; Tin anodes (Arbizzani, C. (141) 149)
- Carbon-coated composite
Lithium-ion battery; Anode materials; Ni–Si alloy; Mechanical alloying (Lee, H.-Y. (141) 159)
- Catalyst support
Hybrid material; Conducting polymers; Methanol oxidation fuel cells (Rajesh, B. (141) 35)
- Cathode materials
Secondary Li batteries; Li–Ni–Mn oxides; Freeze-drying; Particle size effect (Shlyakhtin, O.A. (141) 122)
- Cathode
Li(Ni_{0.8}Co_{0.2})O₂; AlPO₄-coating; Li-ion batteries; Thermal stability (Tan, K.S. (141) 129)
- Cathode
Solid oxide fuel cells (SOFC); LSM; Microstructure; Anode-supported. (Haanappel, V.A.C. (141) 216)
- Cell optimization
PEM fuel cell; Mathematical model; CO poisoning (Mishra, V. (141) 47)
- Cell parameters
Anode supported; Solid oxide fuel cells; Polarization; Current interruption (Zhao, F. (141) 79)
- Cell resistance
PEM fuel cell; Pressure drop; Drying; Flooding (Barbir, F. (141) 96)
- Ceramic tiller
Polymer electrolyte; Polyurethane acrylate; Nano-size; Lithium-polymer battery, Solid-state battery (Jiang, G. (141) 143)
- CFD
PEM fuel cell; Fuel cell modeling; Overpotential; Simulation; Parallel computing (Sivertsen, B.R. (141) 65)
- Chronoamperometry
Micro-porous polymer electrolyte; Poly(vinyl alcohol); Ionic conductivity; Linear sweep voltammetry (Subramania, A. (141) 188)

- CO poisoning
 PEM fuel cell; Mathematical model; Cell optimization (Mishra, V. (141) 47)
- Collector
 Grafoil[®]; Graphite; Sheet; Battery; Intercalation (Yazici, M.S. (141) 171)
- Composite
 Activated carbon; Supercapacitor; Specific capacitance; Pseudocapacitance; Electrochemical characterization (Dandekar, M.S. (141) 198)
- Conducting polymers
 Hybrid material; Catalyst support; Methanol oxidation fuel cells (Rajesh, B. (141) 35)
- Control
 Capacitor; State of charge; Activated carbon; Adaptive algorithm; Power capability (Verbrugge, M.W. (141) 369)
- Corrosion
 SOFC; Glass sealants; Interconnect materials; Ferritic high-chromium alloys; Resistance measurements (Haanappel, V.A.C. (141) 102)
- Current collector
 Carbon paper; Lithium-ion batteries; Tin anodes (Arbizzani, C. (141) 149)
- Current controlled voltage source
 Battery modeling; Resistive companion modeling; Virtual test bed (Zhang, Q. (141) 359)
- Current density distribution
 Proton exchange membrane; Fuel cell (Liu, Z. (141) 205)
- Current interruption
 Anode supported; Solid oxide fuel cells; Cell parameters; Polarization (Zhao, F. (141) 79)
- Cycle performance
 Tin phosphide; Anode; Capacity; Solid solution; Lithium battery (Kim, Y.-U. (141) 163)
- Cyclic voltammetry
 Gel polymer electrolyte; Li-ion battery; ac impedance; Mesocarbon microbeads; Specific discharge capacity (Kim, H.-S. (141) 311)
- Deterioration mechanism
 Nickel metal-hydride battery; Hybrid electric vehicle (Shinyama, K. (141) 193)
- Direct alcohol fuel cell
 Three-dimensional electrode; Polystyrene spheres; Polypyrrole (Xie, F. (141) 211)
- Direct methanol fuel cell
 Membrane electrode assembly; Electrocatalyst loading and layer; Mobile phone; Power density; Methanol cross-over (Chen, C.Y. (141) 24)
- Direct-hydrogen system
 Fuel cell vehicle; Simulation; Fuel cell (Moore, R.M. (141) 272)
- Drying
 PEM fuel cell; Pressure drop; Cell resistance; Flooding (Barbir, F. (141) 96)
- Electric double-layer capacitor
 Carbon aerogel; Activation; Surface modification; Surfactant/sodium oleate; Propylene carbonate (Wei, Y.-Z. (141) 386)
- Electrocatalysis
 Fuel cells; Pt deposition; Ru/Pt nanoparticles; Anode; Methanol (Kuk, S.T. (141) 1)
- Electrocatalyst loading and layer
 Direct methanol fuel cell; Membrane electrode assembly; Mobile phone; Power density; Methanol cross-over (Chen, C.Y. (141) 24)
- Electrochemical characterization
 Activated carbon; Composite; Supercapacitor; Specific capacitance; Pseudocapacitance (Dandekar, M.S. (141) 198)
- Electrodeposition
 Surfactant; Manganese dioxide; Rechargeable alkaline batteries (Ghaemi, M. (141) 340)
- Electrodes
 Lead-acid battery; Porosity; Porosimetry; Surface area (Ferg, E.E. (141) 316)
- Electrolyte losses
 Lead-acid battery; Gas-separation membrane (Ismail, A.F. (141) 177)
- Electroplating method
 Li-ion batteries; Multilayered Sn–Zn–Cu alloy thin-film electrode; Heat treatment (Wang, L. (141) 286)
- Energy recovery system
 PEM fuel cells; Two-phase mixture (Cao, Y. (141) 258)
- Ethanol
 Manganese dioxide; Flowing alkaline-electrolyte; Fuel cell; Methanol; Sodium borohydride (Verma, A. (141) 30)
- Ferritic high-chromium alloys
 SOFC; Glass sealants; Interconnect materials; Resistance measurements; Corrosion (Haanappel, V.A.C. (141) 102)
- Flooding
 PEM fuel cell; Pressure drop; Cell resistance; Drying (Barbir, F. (141) 96)
- Flowing alkaline-electrolyte
 Manganese dioxide; Fuel cell; Methanol; Ethanol; Sodium borohydride (Verma, A. (141) 30)
- Freeze-drying
 Secondary Li batteries; Cathode materials; Li–Ni–Mn oxides; Particle size effect (Shlyakhtin, O.A. (141) 122)
- Fuel cell modeling
 PEM fuel cell; Overpotential; Simulation; CFD; Parallel computing (Sivertsen, B.R. (141) 65)
- Fuel cell technology
 R&D strategies; Automotive industry; Technology commitment; Future assessment (van den Hoed, R. (141) 265)
- Fuel cell vehicle
 Simulation; Direct-hydrogen system; Fuel cell (Moore, R.M. (141) 272)
- Fuel cell
 Fuel cell vehicle; Simulation; Direct-hydrogen system (Moore, R.M. (141) 272)
- Fuel cell
 Manganese dioxide; Flowing alkaline-electrolyte; Methanol; Ethanol; Sodium borohydride (Verma, A. (141) 30)
- Fuel cell
 Plasma polymerization; Water-proofing; Bipolar plate (Taniguchi, A. (141) 8)
- Fuel cell
 Proton exchange membrane; Current density distribution (Liu, Z. (141) 205)
- Fuel cells
 Electrocatalysis; Pt deposition; Ru/Pt nanoparticles; Anode; Methanol (Kuk, S.T. (141) 1)
- Fuel processor
 Preferential oxidation; Microreactor; Heat transfer limitation; Non-isothermal reactor; Reverse water-gas-shift (Ouyang, X. (141) 39)
- Future assessment
 Fuel cell technology; R&D strategies; Automotive industry; Technology commitment (van den Hoed, R. (141) 265)
- Gas-separation membrane
 Lead-acid battery; Electrolyte losses (Ismail, A.F. (141) 177)
- Gel polymer electrolyte
 Li-ion battery; ac impedance; Cyclic voltammetry; Mesocarbon microbeads; Specific discharge capacity (Kim, H.-S. (141) 311)
- Glass sealants
 SOFC; Interconnect materials; Ferritic high-chromium alloys; Resistance measurements; Corrosion (Haanappel, V.A.C. (141) 102)
- Grafoil[®]
 Graphite; Sheet; Battery; Collector; Intercalation (Yazici, M.S. (141) 171)

- Graphite
Grafoil®; Sheet; Battery; Collector; Intercalation (Yazici, M.S. (141) 171)
- Heat transfer limitation
Preferential oxidation; Microreactor; Fuel processor; Non-isothermal reactor; Reverse water-gas-shift (Ouyang, X. (141) 39)
- Heat treatment
Li-ion batteries; Electroplating method; Multilayered Sn–Zn–Cu alloy thin-film electrode (Wang, L. (141) 286)
- High rate performance
Li-ion battery; Mn spinels; Metal cation doping (Deng, B. (141) 116)
- High temperature
Pore-former; Ammonium carbonate; Nafion®; Proton exchange membrane fuel cell (Song, Y. (141) 250)
- Hybrid electric vehicle
Nickel metal-hydride battery; Deterioration mechanism (Shinyama, K. (141) 193)
- Hybrid material
Catalyst support; Conducting polymers; Methanol oxidation fuel cells (Rajesh, B. (141) 35)
- Hybrid
SOFC; Tubular; Planar; Model (Stiller, C. (141) 227)
- Hydrogen
Photoproduction; *Rhodobacter capsulatus*; Lactate; PEM fuel cell (He, D. (141) 19)
- Intercalation
Grafoil®; Graphite; Sheet; Battery; Collector (Yazici, M.S. (141) 171)
- Interconnect materials
SOFC; Glass sealants; Ferritic high-chromium alloys; Resistance measurements; Corrosion (Haanappel, V.A.C. (141) 102)
- Ionic conductivity
Micro-porous polymer electrolyte; Poly(vinyl alcohol); Chronoamperometry; Linear sweep voltammetry (Subramania, A. (141) 188)
- Lactate
Photoproduction; Hydrogen; *Rhodobacter capsulatus*; PEM fuel cell (He, D. (141) 19)
- Laptop battery packs
Li-ion battery; Thermal management; PCM; Thermal performance (Mills, A. (141) 302)
- Lead-acid battery
Electrodes; Porosity; Porosimetry; Surface area (Ferg, E.E. (141) 316)
- Lead-acid battery
Electrolyte losses; Gas-separation membrane (Ismail, A.F. (141) 177)
- Li–Ni–Mn oxides
Secondary Li batteries; Cathode materials; Freeze-drying; Particle size effect (Shlyakhtin, O.A. (141) 122)
- Li(Ni_{0.8}Co_{0.2})O₂
AlPO₄-coating; Cathode; Li-ion batteries; Thermal stability (Tan, K.S. (141) 129)
- Li-ion batteries
Electroplating method; Multilayered Sn–Zn–Cu alloy thin-film electrode; Heat treatment (Wang, L. (141) 286)
- Li-ion batteries
Li(Ni_{0.8}Co_{0.2})O₂; AlPO₄-coating; Cathode; Thermal stability (Tan, K.S. (141) 129)
- Li-ion battery
Gel polymer electrolyte; ac impedance; Cyclic voltammetry; Mesocarbon microbeads; Specific discharge capacity (Kim, H.-S. (141) 311)
- Li-ion battery
Laptop battery packs; Thermal management; PCM; Thermal performance (Mills, A. (141) 302)
- Li-ion battery
Mn spinels; Metal cation doping; High rate performance (Deng, B. (141) 116)
- Linear sweep voltammetry
Micro-porous polymer electrolyte; Poly(vinyl alcohol); Ionic conductivity; Chronoamperometry (Subramania, A. (141) 188)
- Lithium battery anode
Mn₃O₄ (Pasero, D. (141) 156)
- Lithium battery
Tin phosphide; Anode; Capacity; Solid solution; Cycle performance (Kim, Y.-U. (141) 163)
- Lithium perchlorate
Transference number; Transport properties; Propylene carbonate; Acetonitrile (Mauro, V. (141) 167)
- Lithium-ion batteries
Carbon paper; Current collector; Tin anodes (Arbizzani, C. (141) 149)
- Lithium-ion battery
Anode materials; Carbon-coated composite; Ni–Si alloy; Mechanical alloying (Lee, H.-Y. (141) 159)
- Lithium-ion
Aging; Storage life; Capacity loss; Open-circuit voltage (Ramasamy, R.P. (141) 293)
- Lithium-polymer battery, Solid-state battery
Polymer electrolyte; Polyurethane acrylate; Ceramic tiller; Nano-size (Jiang, G. (141) 143)
- LSM
Solid oxide fuel cells (SOFC); Cathode; Microstructure; Anode-supported. (Haanappel, V.A.C. (141) 216)
- Manganese dioxide
Flowing alkaline-electrolyte; Fuel cell; Methanol; Ethanol; Sodium borohydride (Verma, A. (141) 30)
- Manganese dioxide
Surfactant; Electrodeposition; Rechargeable alkaline batteries (Ghaemi, M. (141) 340)
- Mathematical model
PEM fuel cell; CO poisoning; Cell optimization (Mishra, V. (141) 47)
- Mechanical alloying
Lithium-ion battery; Anode materials; Carbon-coated composite; Ni–Si alloy (Lee, H.-Y. (141) 159)
- Membrane electrode assembly
Direct methanol fuel cell; Electrocatalyst loading and layer; Mobile phone; Power density; Methanol cross-over (Chen, C.Y. (141) 24)
- Mesocarbon microbeads
Gel polymer electrolyte; Li-ion battery; ac impedance; Cyclic voltammetry; Specific discharge capacity (Kim, H.-S. (141) 311)
- Metal cation doping
Li-ion battery; Mn spinels; High rate performance (Deng, B. (141) 116)
- Methanol cross-over
Direct methanol fuel cell; Membrane electrode assembly; Electrocatalyst loading and layer; Mobile phone; Power density (Chen, C.Y. (141) 24)
- Methanol oxidation fuel cells
Hybrid material; Catalyst support; Conducting polymers (Rajesh, B. (141) 35)
- Methanol
Electrocatalysis; Fuel cells; Pt deposition; Ru/Pt nanoparticles; Anode (Kuk, S.T. (141) 1)
- Methanol
Manganese dioxide; Flowing alkaline-electrolyte; Fuel cell; Ethanol; Sodium borohydride (Verma, A. (141) 30)
- MHV
PEMFC; Vehicle (Hwang, J.J. (141) 108)
- Micro-porous polymer electrolyte
Poly(vinyl alcohol); Ionic conductivity; Chronoamperometry; Linear sweep voltammetry (Subramania, A. (141) 188)
- Microreactor
Preferential oxidation; Fuel processor; Heat transfer limitation; Non-isothermal reactor; Reverse water-gas-shift (Ouyang, X. (141) 39)

- Microstructure
Solid oxide fuel cells (SOFC); Cathode; LSM; Anode-supported. (Haanappel, V.A.C. (141) 216)
- Mn spinels
Li-ion battery; Metal cation doping; High rate performance (Deng, B. (141) 116)
- Mn₃O₄
Lithium battery anode (Pasero, D. (141) 156)
- Mobile phone
Direct methanol fuel cell; Membrane electrode assembly; Electrocatalyst loading and layer; Power density; Methanol cross-over (Chen, C.Y. (141) 24)
- Model
SOFC; Tubular; Planar; Hybrid (Stiller, C. (141) 227)
- Multilayered Sn–Zn–Cu alloy thin-film electrode
Li-ion batteries; Electroplating method; Heat treatment (Wang, L. (141) 286)
- Nafion[®]
Pore-former; Ammonium carbonate; High temperature; Proton exchange membrane fuel cell (Song, Y. (141) 250)
- Nano-size
Polymer electrolyte; Polyurethane acrylate; Ceramic tiller; Lithium-polymer battery, Solid-state battery (Jiang, G. (141) 143)
- Ni–Si alloy
Lithium-ion battery; Anode materials; Carbon-coated composite; Mechanical alloying (Lee, H.-Y. (141) 159)
- Nickel hydrogen battery
Non-ideal reversible potential; Overcharge; Self-discharge; Resistive-companion model (Liu, S. (141) 326)
- Nickel metal-hydride battery
Hybrid electric vehicle; Deterioration mechanism (Shinyama, K. (141) 193)
- Non-ideal reversible potential
Nickel hydrogen battery; Overcharge; Self-discharge; Resistive-companion model (Liu, S. (141) 326)
- Non-isothermal reactor
Preferential oxidation; Microreactor; Fuel processor; Heat transfer limitation; Reverse water-gas-shift (Ouyang, X. (141) 39)
- Open-circuit voltage
Aging; Storage life; Capacity loss; Lithium-ion (Ramasamy, R.P. (141) 293)
- Overcharge
Nickel hydrogen battery; Non-ideal reversible potential; Self-discharge; Resistive-companion model (Liu, S. (141) 326)
- Overpotential
PEM fuel cell; Fuel cell modeling; Simulation; CFD; Parallel computing (Sivertsen, B.R. (141) 65)
- Oxygen reduction
Pt–Co alloy; PEM fuel cell (Salgado, J.R.C. (141) 13)
- Parallel computing
PEM fuel cell; Fuel cell modeling; Overpotential; Simulation; CFD (Sivertsen, B.R. (141) 65)
- Particle size effect
Secondary Li batteries; Cathode materials; Li–Ni–Mn oxides; Freeze-drying (Shlyakhtin, O.A. (141) 122)
- PCM
Li-ion battery; Laptop battery packs; Thermal management; Thermal performance (Mills, A. (141) 302)
- PEM fuel cell
Fuel cell modeling; Overpotential; Simulation; CFD; Parallel computing (Sivertsen, B.R. (141) 65)
- PEM fuel cell
Mathematical model; CO poisoning; Cell optimization (Mishra, V. (141) 47)
- PEM fuel cell
Photoproduction; Hydrogen; *Rhodobacter capsulatus*; Lactate (He, D. (141) 19)
- PEM fuel cell
Pressure drop; Cell resistance; Drying; Flooding (Barbir, F. (141) 96)
- PEM fuel cell
Pt–Co alloy; Oxygen reduction (Salgado, J.R.C. (141) 13)
- PEM fuel cells
Energy recovery system; Two-phase mixture (Cao, Y. (141) 258)
- PEMFC
Vehicle; MHV (Hwang, J.J. (141) 108)
- Photoproduction
Hydrogen; *Rhodobacter capsulatus*; Lactate; PEM fuel cell (He, D. (141) 19)
- Planar
SOFC; Tubular; Model; Hybrid (Stiller, C. (141) 227)
- Plasma polymerization
Water-proofing; Fuel cell; Bipolar plate (Taniguchi, A. (141) 8)
- Polarization
Anode supported; Solid oxide fuel cells; Cell parameters; Current interruption (Zhao, F. (141) 79)
- Poly(vinyl alcohol)
Micro-porous polymer electrolyte; Ionic conductivity; Chronoamperometry; Linear sweep voltammetry (Subramania, A. (141) 188)
- Polymer electrolyte
Polyurethane acrylate; Ceramic tiller; Nano-size; Lithium-polymer battery, Solid-state battery (Jiang, G. (141) 143)
- Polypyrrole
Direct alcohol fuel cell; Three-dimensional electrode; Polystyrene spheres (Xie, F. (141) 211)
- Polystyrene spheres
Direct alcohol fuel cell; Three-dimensional electrode; Polypyrrole (Xie, F. (141) 211)
- Polyurethane acrylate
Polymer electrolyte; Ceramic tiller; Nano-size; Lithium-polymer battery, Solid-state battery (Jiang, G. (141) 143)
- Pore-former
Ammonium carbonate; Nafion[®]; High temperature; Proton exchange membrane fuel cell (Song, Y. (141) 250)
- Porosimetry
Lead-acid battery; Electrodes; Porosity; Surface area (Ferg, E.E. (141) 316)
- Porosity
Lead-acid battery; Electrodes; Porosimetry; Surface area (Ferg, E.E. (141) 316)
- Power capability
Capacitor; State of charge; Activated carbon; Adaptive algorithm; Control (Verbrugge, M.W. (141) 369)
- Power density
Direct methanol fuel cell; Membrane electrode assembly; Electrocatalyst loading and layer; Mobile phone; Methanol cross-over (Chen, C.Y. (141) 24)
- Preferential oxidation
Microreactor; Fuel processor; Heat transfer limitation; Non-isothermal reactor; Reverse water-gas-shift (Ouyang, X. (141) 39)
- Pressure drop
PEM fuel cell; Cell resistance; Drying; Flooding (Barbir, F. (141) 96)
- Propylene carbonate
Electric double-layer capacitor; Carbon aerogel; Activation; Surface modification; Surfactant/sodium oleate (Wei, Y.-Z. (141) 386)
- Propylene carbonate
Transference number; Transport properties; Lithium perchlorate; Acetonitrile (Mauro, V. (141) 167)
- Proton exchange membrane fuel cell
Pore-former; Ammonium carbonate; Nafion[®]; High temperature (Song, Y. (141) 250)

- Proton exchange membrane
Fuel cell; Current density distribution (Liu, Z. (141) 205)
- Pseudocapacitance
Activated carbon; Composite; Supercapacitor; Specific capacitance; Electrochemical characterization (Dandekar, M.S. (141) 198)
- Pt deposition
Electrocatalysis; Fuel cells; Ru/Pt nanoparticles; Anode; Methanol (Kuk, S.T. (141) 1)
- Pt-Co alloy
Oxygen reduction; PEM fuel cell (Salgado, J.R.C. (141) 13)
- R&D strategies
Fuel cell technology; Automotive industry; Technology commitment; Future assessment (van den Hoed, R. (141) 265)
- Rechargeable alkaline batteries
Surfactant; Electrodeposition; Manganese dioxide (Ghaemi, M. (141) 340)
- Resistance measurements
SOFC; Glass sealants; Interconnect materials; Ferritic high-chromium alloys; Corrosion (Haanappel, V.A.C. (141) 102)
- Resistive companion modeling
Battery modeling; Current controlled voltage source; Virtual test bed (Zhang, Q. (141) 359)
- Resistive-companion model
Nickel hydrogen battery; Non-ideal reversible potential; Overcharge; Self-discharge (Liu, S. (141) 326)
- Reverse water-gas-shift
Preferential oxidation; Microreactor; Fuel processor; Heat transfer limitation; Non-isothermal reactor (Ouyang, X. (141) 39)
- Rhodobacter capsulatus*
Photoproduction; Hydrogen; Lactate; PEM fuel cell (He, D. (141) 19)
- Ru/Pt nanoparticles
Electrocatalysis; Fuel cells; Pt deposition; Anode; Methanol (Kuk, S.T. (141) 1)
- Secondary Li batteries
Cathode materials; Li-Ni-Mn oxides; Freeze-drying; Particle size effect (Shlyakhtin, O.A. (141) 122)
- Self-discharge
Nickel hydrogen battery; Non-ideal reversible potential; Overcharge; Resistive-companion model (Liu, S. (141) 326)
- Sheet
Grafoil[®]; Graphite; Battery; Collector; Intercalation (Yazici, M.S. (141) 171)
- Simulation
Fuel cell vehicle; Direct-hydrogen system; Fuel cell (Moore, R.M. (141) 272)
- Simulation
PEM fuel cell; Fuel cell modeling; Overpotential; CFD; Parallel computing (Sivertsen, B.R. (141) 65)
- Sodium borohydride
Manganese dioxide; Flowing alkaline-electrolyte; Fuel cell; Methanol; Ethanol (Verma, A. (141) 30)
- SOFC
Glass sealants; Interconnect materials; Ferritic high-chromium alloys; Resistance measurements; Corrosion (Haanappel, V.A.C. (141) 102)
- SOFC
Tubular; Planar; Model; Hybrid (Stiller, C. (141) 227)
- Solid oxide fuel cells (SOFC)
Cathode; LSM; Microstructure; Anode-supported. (Haanappel, V.A.C. (141) 216)
- Solid oxide fuel cells
Anode supported; Cell parameters; Polarization; Current interruption (Zhao, F. (141) 79)
- Solid oxide fuel cells
Anodes (Costa-Nunes, O. (141) 241)
- Solid solution
Tin phosphide; Anode; Capacity; Cycle performance; Lithium battery (Kim, Y.-U. (141) 163)
- Specific capacitance
Activated carbon; Composite; Supercapacitor; Pseudocapacitance; Electrochemical characterization (Dandekar, M.S. (141) 198)
- Specific discharge capacity
Gel polymer electrolyte; Li-ion battery; ac impedance; Cyclic voltammetry; Mesocarbon microbeads (Kim, H.-S. (141) 311)
- State of charge (SOC)
Support vector machine (SVM); Support vector regression; US06 (Hansen, T. (141) 351)
- State of charge
Capacitor; Activated carbon; Adaptive algorithm; Control; Power capability (Verbrugge, M.W. (141) 369)
- Storage life
Aging; Capacity loss; Lithium-ion; Open-circuit voltage (Ramasamy, R.P. (141) 293)
- Supercapacitor
Activated carbon; Composite; Specific capacitance; Pseudocapacitance; Electrochemical characterization (Dandekar, M.S. (141) 198)
- Support vector machine (SVM)
Support vector regression; State of charge (SOC); US06 (Hansen, T. (141) 351)
- Support vector regression
Support vector machine (SVM); State of charge (SOC); US06 (Hansen, T. (141) 351)
- Surface area
Lead-acid battery; Electrodes; Porosity; Porosimetry (Ferg, E.E. (141) 316)
- Surface modification
Electric double-layer capacitor; Carbon aerogel; Activation; Surfactant/sodium oleate; Propylene carbonate (Wei, Y.-Z. (141) 386)
- Surfactant/sodium oleate
Electric double-layer capacitor; Carbon aerogel; Activation; Surface modification; Propylene carbonate (Wei, Y.-Z. (141) 386)
- Surfactant
Electrodeposition; Manganese dioxide; Rechargeable alkaline batteries (Ghaemi, M. (141) 340)
- Technology commitment
Fuel cell technology; R&D strategies; Automotive industry; Future assessment (van den Hoed, R. (141) 265)
- Thermal management
Li-ion battery; Laptop battery packs; PCM; Thermal performance (Mills, A. (141) 302)
- Thermal performance
Li-ion battery; Laptop battery packs; Thermal management; PCM (Mills, A. (141) 302)
- Thermal stability
Li(Ni_{0.8}Co_{0.2})O₂; AlPO₄-coating; Cathode; Li-ion batteries (Tan, K.S. (141) 129)
- Three-dimensional electrode
Direct alcohol fuel cell; Polystyrene spheres; Polypyrrole (Xie, F. (141) 211)
- Tin anodes
Carbon paper; Current collector; Lithium-ion batteries (Arbizzani, C. (141) 149)
- Tin phosphide
Anode; Capacity; Solid solution; Cycle performance; Lithium battery (Kim, Y.-U. (141) 163)
- Transference number
Transport properties; Lithium perchlorate; Propylene carbonate; Acetonitrile (Mauro, V. (141) 167)
- Transport properties
Transference number; Lithium perchlorate; Propylene carbonate; Acetonitrile (Mauro, V. (141) 167)

Tubular

SOFC; Planar; Model; Hybrid (Stiller, C. (141) 227)

Two-phase mixture

PEM fuel cells; Energy recovery system (Cao, Y. (141) 258)

US06

Support vector machine (SVM); Support vector regression; State of charge (SOC) (Hansen, T. (141) 351)

Vehicle

PEMFC; MHV (Hwang, J.J. (141) 108)

Virtual test bed

Battery modeling; Resistive companion modeling; Current controlled voltage source (Zhang, Q. (141) 359)

Water-proofing

Plasma polymerization; Fuel cell; Bipolar plate (Taniguchi, A. (141) 8)