

## Subject Index of Volume 122

- Alkaline polymer electrolyte  
Polyvinyl alcohol; Poly(epichlorohydrin); Ionic conductivity; Zn–air battery (Yang, C.-C. (122) 210)
- Anode catalyst  
PEM; Noble metal; Hydrazine (Yamada, K. (122) 132)
- Anode microstructure  
Solid oxide fuel cell; Direct methane oxidation; Samaria-doped ceria; Nickel; Open-circuit voltage (Wang, J.B. (122) 122)
- Anode-supported flat tube  
Slurry dip coating; Ceramic interconnect; Metallic interconnect; Plasma spray coating; Solid oxide fuel cell (Kim, J.-H. (122) 138)
- Application  
Small fuel cells; Proton exchange membrane; Flow field; DC/DC-converter (Tüber, K. (122) 1)
- Batteries  
Propylene carbonate; Diethyl carbonate; Conductances; Spinel (Moumouzas, G. (122) 57)
- Battery  
Solar array; Satellite electric power system; Shunt regulator; Virtual Test Bed (Jiang, Z. (122) 95)
- Battery  
Statistics; Cluster analysis; Principal component analysis; Regression; Prediction (Hagan, P. (122) 77)
- Biomass  
Sugarcane; Fuel cells; Plant simulation (Dellepiane, D. (122) 47)
- Bruggeman law  
Electrode modelling; Separators; Porous networks; MacMullin numbers; Lithium-ion battery (Patel, K.K. (122) 144)
- Capacity fade  
Lithium-ion battery; Cycle performance; Impedance (Shim, J. (122) 188)
- Capacity fading  
Lithium manganese oxides; High-temperature storage (Saitoh, M. (122) 162)
- Cathode  
Fuel cell; MCFC; System modeling; Flowsheet; Design (Au, S.F. (122) 19)
- Ceramic interconnect  
Anode-supported flat tube; Slurry dip coating; Metallic interconnect; Plasma spray coating; Solid oxide fuel cell (Kim, J.-H. (122) 138)
- Chemical storage of hydrogen  
Water decomposition; Redox of iron; Cooperative effect of Rh and Mo (Otsuka, K. (122) 111)
- Chemical vapor deposition  
Chemical vapor infiltration; Pyrolytic carbon; Lithium-ion battery (Ohzawa, Y. (122) 153)
- Chemical vapor infiltration  
Chemical vapor deposition; Pyrolytic carbon; Lithium-ion battery (Ohzawa, Y. (122) 153)
- Cluster analysis  
Statistics; Principal component analysis; Battery; Regression; Prediction (Hagan, P. (122) 77)
- Concentration overpotential  
SOFC; Mass transport model; Fick's model; Dusty-gas model; Stefan–Maxwell model (Suwanwarangkul, R. (122) 9)
- Conductances  
Propylene carbonate; Diethyl carbonate; Batteries; Spinel (Moumouzas, G. (122) 57)
- Cooperative effect of Rh and Mo  
Chemical storage of hydrogen; Water decomposition; Redox of iron (Otsuka, K. (122) 111)
- Curing  
Lead–acid batteries; Paste; Hydrogen peroxide; Plate formation; Valve regulated (Wang, J. (122) 195)
- Cycle performance  
Lithium-ion battery; Capacity fade; Impedance (Shim, J. (122) 188)
- DC/DC-converter  
Small fuel cells; Proton exchange membrane; Application; Flow field (Tüber, K. (122) 1)
- Design  
Fuel cell; MCFC; Cathode; System modeling; Flowsheet (Au, S.F. (122) 19)
- Design  
Fuel cell; MCFC; Modeling; Flowsheet (Au, S.F. (122) 37)
- Diethyl carbonate  
Propylene carbonate; Conductances; Batteries; Spinel (Moumouzas, G. (122) 57)
- Direct methane oxidation  
Solid oxide fuel cell; Samaria-doped ceria; Nickel; Open-circuit voltage; Anode microstructure (Wang, J.B. (122) 122)
- Dusty-gas model  
SOFC; Mass transport model; Fick's model; Stefan–Maxwell model; Concentration overpotential (Suwanwarangkul, R. (122) 9)
- Electrochemical cathode deposition  
Lithium and lithium-ion thin-film batteries; MoS<sub>2</sub> thin-film cathode (Yufit, V. (122) 169)
- Electrochemical double-layer capacitors  
Self-ordered; Mesoporous carbon (Zhou, H. (122) 219)
- Electrochemical voltage spectroscopy  
Flooded utilization; Nickel–hydrogen cells (Thaller, L.H. (122) 85)
- Electrode modelling  
Separators; Porous networks; Bruggeman law; MacMullin numbers; Lithium-ion battery (Patel, K.K. (122) 144)
- Exergy  
Flowsheet; Fuel cell system (Au, S.F. (122) 28)
- Fick's model  
SOFC; Mass transport model; Dusty-gas model; Stefan–Maxwell model; Concentration overpotential (Suwanwarangkul, R. (122) 9)
- Figure of merit  
Thermoelectric generation; Thermoelectric device; Heat transfer; Thermal fluid (Suzuki, R.O. (122) 201)
- Flooded utilization  
Electrochemical voltage spectroscopy; Nickel–hydrogen cells (Thaller, L.H. (122) 85)

- Flow field  
Small fuel cells; Proton exchange membrane; Application; DC/DC-converter (Tüber, K. (122) 1)
- Flowsheet  
Fuel cell system; Exergy (Au, S.F. (122) 28)
- Flowsheet  
Fuel cell; MCFC; Cathode; System modeling; Design (Au, S.F. (122) 19)
- Flowsheet  
Fuel cell; MCFC; Modeling; Design (Au, S.F. (122) 37)
- Fuel cell system  
Flowsheet; Exergy (Au, S.F. (122) 28)
- Fuel cell  
MCFC; Cathode; System modeling; Flowsheet; Design (Au, S.F. (122) 19)
- Fuel cell  
MCFC; Modeling; Flowsheet; Design (Au, S.F. (122) 37)
- Fuel cells  
Sugarcane; Biomass; Plant simulation (Dellepiane, D. (122) 47)
- Heat transfer  
Thermoelectric generation; Thermoelectric device; Thermal fluid; Figure of merit (Suzuki, R.O. (122) 201)
- High rate  
Li battery; Sol-gel (Yang, J. (122) 181)
- High-temperature storage  
Capacity fading; Lithium manganese oxides (Saitoh, M. (122) 162)
- Hydrazine  
PEM; Anode catalyst; Noble metal (Yamada, K. (122) 132)
- Hydrogen peroxide  
Lead-acid batteries; Paste; Curing; Plate formation; Valve regulated (Wang, J. (122) 195)
- Impedance  
Lithium-ion battery; Cycle performance; Capacity fade (Shim, J. (122) 188)
- Ionic conductivity  
Alkaline polymer electrolyte; Polyvinyl alcohol; Poly(epichlorohydrin); Zn-air battery (Yang, C.-C. (122) 210)
- Lead-acid batteries  
Paste; Hydrogen peroxide; Curing; Plate formation; Valve regulated (Wang, J. (122) 195)
- Li battery  
High rate; Sol-gel (Yang, J. (122) 181)
- Li-V-Si-O  
Thin film; PLD; Lithium electrolyte (Zhao, S. (122) 174)
- Li-ion  
Sony US 18650 cells; Protocols (Sikha, G. (122) 67)
- Lithium and lithium-ion thin-film batteries  
MoS<sub>2</sub> thin-film cathode; Electrochemical cathode deposition (Yufit, V. (122) 169)
- Lithium electrolyte  
Thin film; Li-V-Si-O; PLD (Zhao, S. (122) 174)
- Lithium manganese oxides  
Capacity fading; High-temperature storage (Saitoh, M. (122) 162)
- Lithium-ion battery  
Chemical vapor deposition; Chemical vapor infiltration; Pyrolytic carbon (Ohzawa, Y. (122) 153)
- Lithium-ion battery  
Cycle performance; Capacity fade; Impedance (Shim, J. (122) 188)
- Lithium-ion battery  
Electrode modelling; Separators; Porous networks; Bruggeman law; MacMullin numbers (Patel, K.K. (122) 144)
- MacMullin numbers  
Electrode modelling; Separators; Porous networks; Bruggeman law; Lithium-ion battery (Patel, K.K. (122) 144)
- Mass transport model  
SOFC; Fick's model; Dusty-gas model; Stefan-Maxwell model; Concentration overpotential (Suwanwarangkul, R. (122) 9)
- MCFC  
Fuel cell; Cathode; System modeling; Flowsheet; Design (Au, S.F. (122) 19)
- MCFC  
Fuel cell; Modeling; Flowsheet; Design (Au, S.F. (122) 37)
- Mesoporous carbon  
Self-ordered; Electrochemical double-layer capacitors (Zhou, H. (122) 219)
- Metallic interconnect  
Anode-supported flat tube; Slurry dip coating; Ceramic interconnect; Plasma spray coating; Solid oxide fuel cell (Kim, J.-H. (122) 138)
- Modeling  
Fuel cell; MCFC; Flowsheet; Design (Au, S.F. (122) 37)
- MoS<sub>2</sub> thin-film cathode  
Lithium and lithium-ion thin-film batteries; Electrochemical cathode deposition (Yufit, V. (122) 169)
- Nickel  
Solid oxide fuel cell; Direct methane oxidation; Samaria-doped ceria; Open-circuit voltage; Anode microstructure (Wang, J.B. (122) 122)
- Nickel-hydrogen cells  
Electrochemical voltage spectroscopy; Flooded utilization (Thaller, L.H. (122) 85)
- Noble metal  
PEM; Anode catalyst; Hydrazine (Yamada, K. (122) 132)
- Open-circuit voltage  
Solid oxide fuel cell; Direct methane oxidation; Samaria-doped ceria; Nickel; Anode microstructure (Wang, J.B. (122) 122)
- Paste  
Lead-acid batteries; Hydrogen peroxide; Curing; Plate formation; Valve regulated (Wang, J. (122) 195)
- PEM  
Anode catalyst; Noble metal; Hydrazine (Yamada, K. (122) 132)
- Plant simulation  
Sugarcane; Biomass; Fuel cells (Dellepiane, D. (122) 47)
- Plasma spray coating  
Anode-supported flat tube; Slurry dip coating; Ceramic interconnect; Metallic interconnect; Solid oxide fuel cell (Kim, J.-H. (122) 138)
- Plate formation  
Lead-acid batteries; Paste; Hydrogen peroxide; Curing; Valve regulated (Wang, J. (122) 195)
- PLD  
Thin film; Li-V-Si-O; Lithium electrolyte (Zhao, S. (122) 174)
- Poly(epichlorohydrin)  
Alkaline polymer electrolyte; Polyvinyl alcohol; Ionic conductivity; Zn-air battery (Yang, C.-C. (122) 210)
- Polyvinyl alcohol  
Alkaline polymer electrolyte; Poly(epichlorohydrin); Ionic conductivity; Zn-air battery (Yang, C.-C. (122) 210)
- Porous networks  
Electrode modelling; Separators; Bruggeman law; MacMullin numbers; Lithium-ion battery (Patel, K.K. (122) 144)
- Prediction  
Statistics; Cluster analysis; Principal component analysis; Battery; Regression (Hagan, P. (122) 77)
- Principal component analysis  
Statistics; Cluster analysis; Battery; Regression; Prediction (Hagan, P. (122) 77)
- Propylene carbonate  
Diethyl carbonate; Conductances; Batteries; Spinel (Moumouzias, G. (122) 57)

- Protocols  
   Sony US 18650 cells; Li-ion (Sikha, G. (122) 67)
- Proton exchange membrane  
   Small fuel cells; Application; Flow field; DC/DC-converter (Tüber, K. (122) 1)
- Pyrolytic carbon  
   Chemical vapor deposition; Chemical vapor infiltration; Lithium-ion battery (Ohzawa, Y. (122) 153)
- Redox of iron  
   Chemical storage of hydrogen; Water decomposition; Cooperative effect of Rh and Mo (Otsuka, K. (122) 111)
- Regression  
   Statistics; Cluster analysis; Principal component analysis; Battery; Prediction (Hagan, P. (122) 77)
- Samaria-doped ceria  
   Solid oxide fuel cell; Direct methane oxidation; Nickel; Open-circuit voltage; Anode microstructure (Wang, J.B. (122) 122)
- Satellite electric power system  
   Battery; Solar array; Shunt regulator; Virtual Test Bed (Jiang, Z. (122) 95)
- Self-ordered  
   Mesoporous carbon; Electrochemical double-layer capacitors (Zhou, H. (122) 219)
- Separators  
   Electrode modelling; Porous networks; Bruggeman law; MacMullin numbers; Lithium-ion battery (Patel, K.K. (122) 144)
- Shunt regulator  
   Battery; Solar array; Satellite electric power system; Virtual Test Bed (Jiang, Z. (122) 95)
- Slurry dip coating  
   Anode-supported flat tube; Ceramic interconnect; Metallic interconnect; Plasma spray coating; Solid oxide fuel cell (Kim, J.-H. (122) 138)
- Small fuel cells  
   Proton exchange membrane; Application; Flow field; DC/DC-converter (Tüber, K. (122) 1)
- SOFC  
   Mass transport model; Fick's model; Dusty-gas model; Stefan–Maxwell model; Concentration overpotential (Suwanwarangkul, R. (122) 9)
- Sol–gel  
   Li battery; High rate (Yang, J. (122) 181)
- Solar array  
   Battery; Satellite electric power system; Shunt regulator; Virtual Test Bed (Jiang, Z. (122) 95)
- Solid oxide fuel cell  
   Anode-supported flat tube; Slurry dip coating; Ceramic interconnect; Metallic interconnect; Plasma spray coating (Kim, J.-H. (122) 138)
- Solid oxide fuel cell  
   Direct methane oxidation; Samaria-doped ceria; Nickel; Open-circuit voltage; Anode microstructure (Wang, J.B. (122) 122)
- Sony US 18650 cells  
   Protocols; Li-ion (Sikha, G. (122) 67)
- Spinel  
   Propylene carbonate; Diethyl carbonate; Conductances; Batteries (Moumouzas, G. (122) 57)
- Statistics  
   Cluster analysis; Principal component analysis; Battery; Regression; Prediction (Hagan, P. (122) 77)
- Stefan–Maxwell model  
   SOFC; Mass transport model; Fick's model; Dusty-gas model; Concentration overpotential (Suwanwarangkul, R. (122) 9)
- Sugarcane  
   Biomass; Fuel cells; Plant simulation (Dellepiane, D. (122) 47)
- System modeling  
   Fuel cell; MCFC; Cathode; Flowsheet; Design (Au, S.F. (122) 19)
- Thermal fluid  
   Thermoelectric generation; Thermoelectric device; Heat transfer; Figure of merit (Suzuki, R.O. (122) 201)
- Thermoelectric device  
   Thermoelectric generation; Heat transfer; Thermal fluid; Figure of merit (Suzuki, R.O. (122) 201)
- Thermoelectric generation  
   Thermoelectric device; Heat transfer; Thermal fluid; Figure of merit (Suzuki, R.O. (122) 201)
- Thin film  
   Li–V–Si–O; PLD; Lithium electrolyte (Zhao, S. (122) 174)
- Valve regulated  
   Lead–acid batteries; Paste; Hydrogen peroxide; Curing; Plate formation (Wang, J. (122) 195)
- Virtual Test Bed  
   Battery; Solar array; Satellite electric power system; Shunt regulator (Jiang, Z. (122) 95)
- Water decomposition  
   Chemical storage of hydrogen; Redox of iron; Cooperative effect of Rh and Mo (Otsuka, K. (122) 111)
- Zn–air battery  
   Alkaline polymer electrolyte; Polyvinyl alcohol; Poly(epichlorohydrin); Ionic conductivity (Yang, C.-C. (122) 210)