

Subject Index of Volume 95

- Absorptive glass mat
Automotive batteries; Valve regulated lead-acid batteries; Cycle-life test; Fast charging; Hybrid electric vehicles (Trinidad, F. (95) 24)
- Acid stratification
Lead acid batteries; Colloidal silica; Softening process (Torcheux, L. (95) 248)
Lead–acid battery; Remote area power supply; Charging characteristics; Morphology of positive active mass; Modelling (Sauer, D.U. (95) 130)
- Active material
VRLA batteries; AJS separator; Compression; Mechanical pressure; Corrosion (Perrin, M. (95) 85)
- Additives
Lead–acid batteries; Negative electrodes; Expanders; Capacity; Cycle life; Surface area; Crystal morphology (Boden, D.P. (95) 277)
- Age hardening
Lead–calcium alloy grids; Microstructures; Paste adhesion; Segregation; Corrosion (Prengaman, R. David (95) 224)
- AGM
RBSM; VRLA; Separator; Plate-group pressure; Cycle life (Weighall, M.J. (95) 209)
- AJS separator
VRLA batteries; Compression; Mechanical pressure; Active material; Corrosion (Perrin, M. (95) 85)
- ALABC
Battery; Flooded; Lead–acid; Service life; Valve-regulated (Moseley, P.T. (95) 218)
- Automotive batteries
High rate discharge; Production line test; Evaluation gradient ΔV (Schröer, T. (95) 271)
Polyethylene separators; Materials and composition; Profiles (Böhnstedt, W. (95) 234)
Valve regulated lead-acid batteries; Cycle-life test; Absorptive glass mat; Fast charging; Hybrid electric vehicles (Trinidad, F. (95) 24)
SLI; Vehicle electric power system; 42 V PowerNet; Battery monitoring; State-of-charge; State-of-health (Meissner, E. (95) 13)
- Batteries comparative study
Lead-acid battery; 36–42 V application; Electrical power supply; Batteries for starter–alternator; Stop & Go functions. (Lailier, P. (95) 58)
- Batteries for starter–alternator
Lead-acid battery; 36–42 V application; Electrical power supply; Batteries comparative study; Stop & Go functions. (Lailier, P. (95) 58)
- Batteries
Lead–acid; Bipolar; Hybrid electric; Vehicles (Saakes, M. (95) 68)
Stand-alone PV systems; Battery storage and control (Fernandez, M. (95) 135)
ALABC; Flooded; Lead–acid; Service life; Valve-regulated (Moseley, P.T. (95) 218)
- Battery additive
Skeletal structure separator; Fiber structure separator; Dendrite preventive additive (DPA); Physical attribute additive; Chemical attribute additive (Ferreira, A.L. (95) 255)
- Battery charging
Valve-regulated lead-acid batteries; Battery testing; Battery life and performance (Crow, J. (95) 241)
- Battery life and performance
Valve-regulated lead-acid batteries; Battery testing; Battery charging (Crow, J. (95) 241)
- Battery monitoring
Automotive battery; SLI; Vehicle electric power system; 42 V PowerNet; State-of-charge; State-of-health (Meissner, E. (95) 13)
- Battery storage and control
Stand-alone PV systems; Batteries (Fernandez, M. (95) 135)
- Battery systems
Lead–acid batteries; Energy managements; 42 V vehicle electrical system (Gruenstern, R.G. (95) 38)
- Battery testing
Valve-regulated lead-acid batteries; Battery life and performance; Battery charging (Crow, J. (95) 241)
- Bipolar
Lead–acid; Hybrid electric; Vehicles; Batteries (Saakes, M. (95) 68)
- Bismuth benefits
VRLA Refined™ lead; VRLA batteries; Lead specifications (Stevenson, M.W. (95) 264)
- Bismuth
Lead oxide; Lead-acid battery; Capacity; Cycle-life; Water loss (Chen, H.Y. (95) 108)
- Capacity
Bismuth; Lead oxide; Lead-acid battery; Cycle-life; Water loss (Chen, H.Y. (95) 108)
- Capacity
Lead–acid batteries; Negative electrodes; Additives; Expanders; Cycle life; Surface area; Crystal morphology (Boden, D.P. (95) 277)
- Catalyst
VRLA; Oxygen recombination; Self-discharge (Misra, S.S. (95) 162)
- Charge/discharge
Lead/acid batteries; Solar power; VRLA batteries (Wagner, R. (95) 141)
- Charging characteristics
Lead–acid battery; Remote area power supply; Acid stratification; Morphology of positive active mass; Modelling (Sauer, D.U. (95) 130)
- Chemical attribute additive
Battery additive; Skeletal structure separator; Fiber structure separator; Dendrite preventive additive (DPA); Physical attribute additive (Ferreira, A.L. (95) 255)
- Colloidal silica
Lead acid batteries; Acid stratification; Softening process (Torcheux, L. (95) 248)
- Compression
VRLA batteries; AJS separator; Mechanical pressure; Active material; Corrosion (Perrin, M. (95) 85)
Lead accumulator; Positive test electrodes; Negative test electrodes (Calábek, M. (95) 97)

- Constant current
Lead acid battery; VRLA; Thermal video imaging; Constant voltage; Recharge speed; Gas emission (Häring, P. (95) 153)
- Constant voltage
Lead acid battery; VRLA; Thermal video imaging; Constant current; Recharge speed; Gas emission (Häring, P. (95) 153)
- Corrosion
Lead-calcium alloy grids; Microstructures; Paste adhesion; Segregation; Age hardening (Prengaman, R. David (95) 224)
Lead-acid batteries; Positive electrode; Tin dioxide; Sputtering (Kurisawa, I. (95) 125)
VRLA batteries; AJS separator; Compression; Mechanical pressure; Active material (Perrin, M. (95) 85)
- Crystal morphology
Lead-acid batteries; Negative electrodes; Additives; Expanders; Capacity; Cycle life; Surface area (Boden, D.P. (95) 277)
- Cycle life
Bismuth; Lead oxide; Lead-acid battery; Capacity; Water loss (Chen, H.Y. (95) 108)
Lead-acid batteries; Negative electrodes; Additives; Expanders; Capacity; Surface area; Crystal morphology (Boden, D.P. (95) 277)
RBSM; AGM; VRLA; Separator; Plate-group pressure (Weighall, M.J. (95) 209)
- Cycle-life test
Automotive batteries; Valve regulated lead-acid batteries; Absorptive glass mat; Fast charging; Hybrid electric vehicles (Trinidad, F. (95) 24)
- Dendrite preventive additive (DPA)
Battery additive; Skeletal structure separator; Fiber structure separator; Physical attribute additive; Chemical attribute additive (Ferreira, A.L. (95) 255)
- EC-AFM
In situ observation; Potentiostatic transient; Lead-acid battery; Lead dioxide electrodes (Shiota, M. (95) 203)
- Electrical power supply
Lead-acid battery; 36–42 V application; Batteries comparative study; Batteries for starter-alternator; Stop & Go functions. (Lailler, P. (95) 58)
- Electrical testing
Expanders; Lead-acid batteries; VRLA (Saez, F. (95) 174)
- Electrochemical techniques
Lead-acid batteries; Organic expanders; Negative plate (Francia, C. (95) 119)
- Energy management in vehicles
42 V powernet; Forum bordnetzarchitektur; 42 V standards (Ehlers, K. (95) 43)
- Energy managements
Lead-acid batteries; Battery systems; 42 V vehicle electrical system (Gruenstern, R.G. (95) 38)
- Evaluation gradient ΔV
Automotive batteries; High rate discharge; Production line test (Schröer, T. (95) 271)
- Expanders
Lead-acid batteries; Negative electrodes; Additives; Capacity; Cycle life; Surface area; Crystal morphology (Boden, D.P. (95) 277)
Lead-acid batteries; VRLA; Electrical testing (Saez, F. (95) 174)
- Fast charging
Automotive batteries; Valve regulated lead-acid batteries; Cycle-life test; Absorptive glass mat; Hybrid electric vehicles (Trinidad, F. (95) 24)
- Fiber structure separator
Battery additive; Skeletal structure separator; Dendrite preventive additive (DPA); Physical attribute additive; Chemical attribute additive (Ferreira, A.L. (95) 255)
- Flooded
ALABC; Battery; Lead-acid; Service life; Valve-regulated (Moseley, P.T. (95) 218)
- Forum bordnetzarchitektur
Energy management in vehicles; 42 V powernet; 42 V standards (Ehlers, K. (95) 43)
- Gas emission
Lead acid battery; VRLA; Thermal video imaging; Constant current; Constant voltage; Recharge speed (Häring, P. (95) 153)
- Grid corrosion balancing cells
Lead-acid batteries; Valve-regulated; Oxygen-cycle; Hydrogen evolution (Berndt, D. (95) 2)
- High rate discharge
Automotive batteries; Production line test; Evaluation gradient ΔV (Schröer, T. (95) 271)
- Hybrid electric vehicles
Automotive batteries; Valve regulated lead-acid batteries; Cycle-life test; Absorptive glass mat; Fast charging (Trinidad, F. (95) 24)
- Hybrid electric
Lead-acid; Bipolar; Vehicles; Batteries (Saakes, M. (95) 68)
- Hydrated tetrabasic lead sulfate
Lead-acid battery paste; Lead dioxide active mass structure; Lead-acid battery technology (Pavlov, D. (95) 191)
- Hydrogen evolution
Lead-acid batteries; Valve-regulated; Oxygen-cycle; Grid corrosion balancing cells (Berndt, D. (95) 2)
- Hydrogen
 β -PbO₂; Rapid charging; Morphology; Stoichiometry (Steele, I.M. (95) 79)
- In situ observation
EC-AFM; Potentiostatic transient; Lead-acid battery; Lead dioxide electrodes (Shiota, M. (95) 203)
- Lead accumulator
Positive test electrodes; Negative test electrodes; Separators compression (Calábek, M. (95) 97)
- Lead acid batteries
Positive electrode; Corrosion; Tin dioxide; Sputtering (Kurisawa, I. (95) 125)
Valve-regulated; Oxygen-cycle; Hydrogen evolution; Grid corrosion balancing cells (Berndt, D. (95) 2)
Colloidal silica; Acid stratification; Softening process (Torcheux, L. (95) 248)
VRLA; Thermal video imaging; Constant current; Constant voltage; Recharge speed; Gas emission (Häring, P. (95) 153)
Battery systems; Energy managements; 42 V vehicle electrical system (Gruenstern, R.G. (95) 38)
36–42 V application; Electrical power supply; Batteries comparative study; Batteries for starter-alternator; Stop & Go functions. (Lailler, P. (95) 58)
Bismuth; Lead oxide; Capacity; Cycle-life; Water loss (Chen, H.Y. (95) 108)
In situ observation; EC-AFM; Potentiostatic transient; Lead dioxide electrodes (Shiota, M. (95) 203)
Separator design; Traction battery (Wimberly, R. (95) 293)
Solar power; VRLA batteries; Charge/discharge (Wagner, R. (95) 141)
Electrochemical techniques; Organic expanders; Negative plate (Francia, C. (95) 119)
Expanders; VRLA; Electrical testing (Saez, F. (95) 174)
Negative electrodes; Additives; Expanders; Capacity; Cycle life; Surface area; Crystal morphology (Boden, D.P. (95) 277)
Remote area power supply; Acid stratification; Charging characteristics; Morphology of positive active mass; Modelling (Sauer, D.U. (95) 130)

- Lead dioxide active mass structure
Hydrated tetrabasic lead sulfate; Lead-acid battery paste; Lead-acid battery technology (Pavlov, D. (95) 191)
- Lead dioxide electrodes
In situ observation; EC-AFM; Potentiostatic transient; Lead-acid battery (Shiota, M. (95) 203)
- Lead oxide
Bismuth; Lead-acid battery; Capacity; Cycle-life; Water loss (Chen, H.Y. (95) 108)
- Lead specifications
VRLA Refined™ lead; VRLA batteries; Bismuth benefits (Stevenson, M.W. (95) 264)
- Lead-acid
ALABC; Battery; Flooded; Service life; Valve-regulated (Moseley, P.T. (95) 218)
Bipolar; Hybrid electric; Vehicles; Batteries (Saakes, M. (95) 68)
- Lead-calcium alloy grids
Microstructures; Paste adhesion; Segregation; Age hardening; Corrosion (Prengaman, R. David (95) 224)
- Lead-acid battery paste
Hydrated tetrabasic lead sulfate; Lead dioxide active mass structure; Lead-acid battery technology (Pavlov, D. (95) 191)
- Lead-acid battery technology
Hydrated tetrabasic lead sulfate; Lead-acid battery paste; Lead dioxide active mass structure (Pavlov, D. (95) 191)
- Materials and composition
Automotive batteries; Polyethylene separators; Profiles (Böhnstedt, W. (95) 234)
- Mechanical pressure
VRLA batteries; AJS separator; Compression; Active material; Corrosion (Perrin, M. (95) 85)
- Microstructures
Lead-calcium alloy grids; Paste adhesion; Segregation; Age hardening; Corrosion (Prengaman, R. David (95) 224)
- Modelling
Lead-acid battery; Remote area power supply; Acid stratification; Charging characteristics; Morphology of positive active mass (Sauer, D.U. (95) 130)
- Morphology of positive active mass
Lead-acid battery; Remote area power supply; Acid stratification; Charging characteristics; Modelling (Sauer, D.U. (95) 130)
- Morphology
 β -PbO₂; Rapid charging; Hydrogen; Stoichiometry (Steele, I.M. (95) 79)
- Negative electrodes
Lead-acid batteries; Additives; Expanders; Capacity; Cycle life; Surface area; Crystal morphology (Boden, D.P. (95) 277)
- Negative plate
Electrochemical techniques; Lead-acid batteries; Organic expanders (Francia, C. (95) 119)
- Negative test electrodes
Lead accumulator; Positive test electrodes; Separators compression (Calábek, M. (95) 97)
- Organic expanders
Electrochemical techniques; Lead-acid batteries; Negative plate (Francia, C. (95) 119)
- Oxygen recombination
Catalyst; VRLA; Self-discharge (Misra, S.S. (95) 162)
- Oxygen-cycle
Lead-acid batteries; Valve-regulated; Hydrogen evolution; Grid corrosion balancing cells (Berndt, D. (95) 2)
- Paste adhesion
Lead-calcium alloy grids; Microstructures; Segregation; Age hardening; Corrosion (Prengaman, R. David (95) 224)
- β -PbO₂
Rapid charging; Morphology; Hydrogen; Stoichiometry (Steele, I.M. (95) 79)
- Physical attribute additive
Battery additive; Skeletal structure separator; Fiber structure separator; Dendrite preventive additive (DPA); Chemical attribute additive (Ferreira, A.L. (95) 255)
- Plate-group pressure
RBSM; AGM; VRLA; Separator; Cycle life (Weighall, M.J. (95) 209)
- Polyethylene separators
Automotive batteries; Materials and composition; Profiles (Böhnstedt, W. (95) 234)
- Positive electrode
Lead-acid batteries; Corrosion; Tin dioxide; Sputtering (Kurisawa, I. (95) 125)
- Positive test electrodes
Lead accumulator; Negative test electrodes; Separators compression (Calábek, M. (95) 97)
- Potentiostatic transient
In situ observation; EC-AFM; Lead-acid battery; Lead dioxide electrodes (Shiota, M. (95) 203)
- Production line test
Automotive batteries; High rate discharge; Evaluation gradient ΔV (Schröer, T. (95) 271)
- Profiles
Automotive batteries; Polyethylene separators; Materials and composition (Böhnstedt, W. (95) 234)
- Rapid charging
 β -PbO₂; Morphology; Hydrogen; Stoichiometry (Steele, I.M. (95) 79)
- RBSM
AGM; VRLA; Separator; Plate-group pressure; Cycle life (Weighall, M.J. (95) 209)
- Recharge speed
Lead acid battery; VRLA; Thermal video imaging; Constant current; Constant voltage; Gas emission (Håring, P. (95) 153)
- Remote area power supply
Lead-acid battery; Acid stratification; Charging characteristics; Morphology of positive active mass; Modelling (Sauer, D.U. (95) 130)
- Segregation
Lead-calcium alloy grids; Microstructures; Paste adhesion; Age hardening; Corrosion (Prengaman, R. David (95) 224)
- Self-discharge
Catalyst; VRLA; Oxygen recombination (Misra, S.S. (95) 162)
- Separator design
Lead-acid battery; Traction battery (Wimberly, R. (95) 293)
- Separator
RBSM; AGM; VRLA; Plate-group pressure; Cycle life (Weighall, M.J. (95) 209)
- Separators
Lead accumulator; Positive test electrodes; Negative test electrodes (Calábek, M. (95) 97)
- Service life
ALABC; Battery; Flooded; Lead-acid; Valve-regulated (Moseley, P.T. (95) 218)
- Skeletal structure separator
Battery additive; Fiber structure separator; Dendrite preventive additive (DPA); Physical attribute additive; Chemical attribute additive (Ferreira, A.L. (95) 255)
- SLI
Automotive battery; Vehicle electric power system; 42 V PowerNet; Battery monitoring; State-of-charge; State-of-health (Meissner, E. (95) 13)
- Softening process
Lead acid batteries; Colloidal silica; Acid stratification (Torcheux, L. (95) 248)

- Solar power
Lead/acid batteries; VRLA batteries; Charge/discharge (Wagner, R. (95) 141)
- Sputtering
Lead-acid batteries; Positive electrode; Corrosion; Tin dioxide (Kurisawa, I. (95) 125)
- Stand-alone PV systems
Batteries; Battery storage and control (Fernandez, M. (95) 135)
- State-of-charge
Automotive battery; SLI; Vehicle electric power system; 42 V PowerNet; Battery monitoring; State-of-health (Meissner, E. (95) 13)
- State-of-health
Automotive battery; SLI; Vehicle electric power system; 42 V PowerNet; Battery monitoring; State-of-charge (Meissner, E. (95) 13)
- Stoichiometry
 β -PbO₂; Rapid charging; Morphology; Hydrogen (Steele, I.M. (95) 79)
- Stop & Go functions.
Lead-acid battery; 36–42 V application; Electrical power supply; Batteries comparative study; Batteries for starter–alternator (Lailler, P. (95) 58)
- Surface area
Lead–acid batteries; Negative electrodes; Additives; Expanders; Capacity; Cycle life; Crystal morphology (Boden, D.P. (95) 277)
- Thermal video imaging
Lead acid battery; VRLA; Constant current; Constant voltage; Recharge speed; Gas emission (Häring, P. (95) 153)
- Tin dioxide
Lead-acid batteries; Positive electrode; Corrosion; Sputtering (Kurisawa, I. (95) 125)
- Traction battery
Lead-acid battery; Separator design (Wimberly, R. (95) 293)
- 36–42 V application
Lead-acid battery; Electrical power supply; Batteries comparative study; Batteries for starter–alternator; Stop & Go functions. (Lailler, P. (95) 58)
- 42 V PowerNet
Automotive battery; SLI; Vehicle electric power system; Battery monitoring; State-of-charge; State-of-health (Meissner, E. (95) 13)
Energy management in vehicles; Forum bordnetzarchitektur; 42 V standards (Ehlers, K. (95) 43)
- Valve regulated lead-acid batteries
Automotive batteries; Cycle-life test; Absorptive glass mat; Fast charging; Hybrid electric vehicles (Trinidad, F. (95) 24)
Battery testing; Battery life and performance; Battery charging (Crow, J. (95) 241)
- Valve-regulated
ALABC; Battery; Flooded; Lead–acid; Service life (Moseley, P.T. (95) 218)
Lead-acid batteries; Oxygen-cycle; Hydrogen evolution; Grid corrosion balancing cells (Berndt, D. (95) 2)
- 42 V vehicle electrical system
Lead–acid batteries; Battery systems; Energy managements (Gruenster, R.G. (95) 38)
- Vehicle electric power system
Automotive battery; SLI; 42 V PowerNet; Battery monitoring; State-of-charge; State-of-health (Meissner, E. (95) 13)
- Vehicles
Lead–acid; Bipolar; Hybrid electric; Batteries (Saakes, M. (95) 68)
- VRLA batteries
AJS separator; Compression; Mechanical pressure; Active material; Corrosion (Perrin, M. (95) 85)
Lead/acid batteries; Solar power; Charge/discharge (Wagner, R. (95) 141)
VRLA Refined™ lead; Bismuth benefits; Lead specifications (Stevenson, M.W. (95) 264)
- VRLA Refined™ lead
VRLA batteries; Bismuth benefits; Lead specifications (Stevenson, M.W. (95) 264)
- VRLA
Catalyst; Oxygen recombination; Self-discharge (Misra, S.S. (95) 162)
Expanders; Lead–acid batteries; Electrical testing (Saez, F. (95) 174)
Lead acid battery; Thermal video imaging; Constant current; Constant voltage; Recharge speed; Gas emission (Häring, P. (95) 153)
RBBSM; AGM; Separator; Plate-group pressure; Cycle life (Weighall, M.J. (95) 209)
- 42 V standards
Energy management in vehicles; 42 V powernet; Forum bordnetzarchitektur (Ehlers, K. (95) 43)
- Water loss
Bismuth; Lead oxide; Lead-acid battery; Capacity; Cycle-life (Chen, H.Y. (95) 108)