



ALABC OPEN LITERATURE PUBLICATIONS
(Updated: April, 2006)

| No. & Title | Author(s) | Journal Reference |
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| 1. The Advanced Lead-Acid Battery Consortium | J.F. Cole | <i>Journal of Power Sources</i> , 40 (1992) 1-15 |
| 2. A Lead-Acid Battery for the New Millenium | R. Nelson | <i>Journal of Power Sources</i> , 46 (1993) 159-168 |
| 3. Effects of Fast Charging on Hybrid Lead-Acid Battery Temperature | T.G. Chang; E.M. Valeriotte; D.M. Jochim | <i>Journal of Power Sources</i> , 48 (1994) 163-175 |
| 4. Lead Alloys: Past, Present and Future | N. Bagshaw | <i>Journal of Power Sources</i> , 53 (1995) 25-30 |
| 5. Paste Structure and Its Influence on the Agglomerate-of-Spheres Parameters of the PbO ₂ Electrode | E. Basthavelova; A. Winsel | <i>Journal of Power Sources</i> , 53 (1995) 175-183 |
| 6. Physical Change in Positive-Plate Material -- an Underrated Contributor to Premature Capacity Loss | K.K.Constanti; A.F. Hollenkamp; M.J. Koop; K. McGregor | <i>Journal of Power Sources</i> , 55 (1995) 269-275 |
| 7. Progress Towards the Advanced Lead-Acid Battery | A. Cooper | EVT'95, Paris, France (November 13-15, 1995) |
| 8. Lead-Acid Battery Myths | P.T. Moseley | <i>Journal of Power Sources</i> , 59 (1996) 81-86 |
| 9. When is Capacity Loss in Lead-Acid Batteries Premature? | A.F. Hollenkamp | <i>Journal of Power Sources</i> , 59 (1996) 87-98 |
| 10. Collaboration in Research - the ALABC: Brite-EuRam Lead-Acid Electric Vehicle Battery Project | A. Cooper | <i>Journal of Power Sources</i> , 59 (1996) 161-170 |
| 11. Evaluation of Lead-Acid Batteries Under Simulated Electric Vehicle Duty: Development of Design Parameters on the Basis of SFUDS Performance | A.F. Hollenkamp; L. Lam; C.G. Phyland; N.C. Wilson | <i>Journal of Power Sources</i> , 59 (1996) 177-184 |
| 12. Resistance Changes and Premature Capacity in Lead-Acid Battery Plates | M. Calabek; K. Micka; P. Baca; P. Krivak; V. Smarda | <i>Journal of Power Sources</i> , 62 (1996) 161-166 |
| 13. Influence of Cycling Current and Power Profiles on the Cycle Life of Lead-Acid Batteries | G. Papazov; D. Pavlov | <i>Journal of Power Sources</i> , 62 (1996) 193-199 |
| 14. <i>In Situ</i> Conductivity Study of the Corrosion Layers on Lead-Tin Alloys in Sulfuric Acid | P. Mattesco; N. Bui; P. Simon; L. Albert | <i>J. Electrochem. Soc.</i> , Vol. 144, No. 2, (February, 1997) 443 |
| 15. Lead-Acid Takes A Tonic | H. Clasen; H. Doring; J. Garche; E. Meissner | <i>Batteries International</i> , April, 1997 |
| 16. Effect of Polarization Mode, Time and Potential on the Properties of the Passive Layer on Lead-Tin Alloys | P. Mattesco; N. Bui; P. Simon; L. Albert | <i>Journal of Power Sources</i> , 64 (1997) 21-27 |
| 17. Analysis of tin in lead oxide by Mössbauer spectrometry and transmission electron microscopy | A. El Ghachcham Amrani; Ph. Steyer; J. Steinmetz; P. Delacroix; G. Le Caër | <i>Journal of Power Sources</i> , 64 (1997) 35-37 |
| 18. Positive Plate Additives | P.T. Moseley | <i>Journal of Power Sources</i> , 64 (1997) 47-50 |



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| 19. Rapid Partial Charging of Lead-Acid Batteries | T.G. Chang; D.M. Jochim | <i>Journal of Power Sources</i> , 64 (1997) 103-110 |
| 20. Study of Resistance Changes Related to Premature Capacity Loss in Lead Battery Plates | M. Calabek; K. Micka | <i>Journal of Power Sources</i> , 64 (1997) 123-129 |
| 21. Tin Effect in Lead - Calcium - Tin Alloys | N. Bui; P. Mattesco; E. Rocca; J. Steinmetz; P. Simon | <i>Journal of Power Sources</i> , 67 (1997) 61-68 |
| 22. Analysis of Positive-Plate Resistance During Cycling and the Effect of Compression | M. Calabek; K. Micka; P. Baca; P. Krivak; V. Smarda | <i>Journal of Power Sources</i> , 67 (1997) 85-91 |
| 23. Characteristics of a High-Performance Lead-Acid Battery for Electric Vehicles - An ALABC View | P.T. Moseley | <i>Journal of Power Sources</i> , 67 (1997) 115-119 |
| 24. Improved Lead Alloys for Positive Grids in the EV Application | L. Albert; A. Chabrol; L. Torcheux, Ph. Steyer; J.P. Hilger | <i>Journal of Power Sources</i> , 67 (1997) 257-265 |
| 25. Improved Lead Alloys for the Positive Grids in the EV Application | L. Albert; J-L Caillerie | <i>Journal of Power Sources</i> , 67 (1997) 279-281 |
| 26. Advanced Lead-Acid Batteries | R. Hobbs | S.A.E. 1997 |
| 27. Evaluation of Rapid Charging Techniques for Lead-Acid Batteries | K. Tomantschger; E.M. Valeriote; T.G. Chang; J. Sklarchuk | EPRI Presentation, May 29, 1997 |
| 28. Overview of the Advanced Lead-Acid Battery Consortium | P.T. Moseley | ISATA-Florence, Italy (June, 1997) |
| 29. Development and Initial Evaluation of Demonstration Battery | G. Baudo; H. Doring; N. Kapkov, L. Sella | ISATA-Florence, Italy (June, 1997) |
| 30. Improvements in Battery Cycle Life | E. Meissner; E. Bashtavelova; A. Winsel | ISATA-Florence, Italy (June, 1997) |
| 31. Charging Electric Vehicles Using the Wavedriver Concept | F.A. Robinson; J. Bialacki; G. May | ISATA-Florence, Italy (June, 1997) |
| 32. Effect of Electronically Conductive Additives to the Positive Active Material on the Performance of Lead-Acid Batteries | H. Doring; H. Clasen; J. Garche; E. Meissner | ISATA-Florence, Italy (June, 1997) |
| 33. Electro-Osmotic Pumping to Enhance Positive Active Material Utilization | J. Dyson; A.D. Turner; C.P. Jones | ISATA-Florence, Italy (June, 1997) |
| 34. Recombinant Separator Mats for Advanced Lead-Acid Batteries | M.J. Weighall | ISATA-Florence, Italy (June, 1997) |
| 35. Charge Equalization in Advanced Long Battery Strings | H. Schmidt; Ch. Siedle; L. Anton, H. Tuphorn | ISATA-Florence, Italy (June, 1997) |
| 36. Influence of Depth of Discharge as a Function of the Discharge Rate on the Life of Lead-Acid Batteries | H. Doring; J. Garche; H. Stelzer; H. Tuphorn | ISATA-Florence, Italy (June, 1997) |
| 37. Improved Lead Alloys for Positive Cast Grids in the EV Application | A. Chabrol; L. Torcheux; Ph. Steyer; J.P. Hilger; N. Bui; G. Nouaille-Degorce; L. Albert | ISATA-Florence, Italy (June, 1997) |
| 38. Influence of Processing Parameters on Cycle Behavior of AGM Batteries | R. Wagner; P. Scharf | ISATA-Florence, Italy (June, 1997) |



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| 39. The Work of the Advanced Lead-Acid Battery Consortium | P.T. Moseley | Proc. Int. Symp. Materials Solutions for Environmental Problems, Ontario, Canada (August, 1997), 36 th Annual Conference CIM |
| 40. Electric Vehicles | P.T. Moseley | Platt's Metals Week Conference, Chicago, (September, 1997) |
| 41. Evaluation of Valve-Regulated Lead-Acid Batteries in an Electric Vehicle Using Normal and Fast Charging Techniques | K. Tomantschger; E.M. Valeriote; J. Sklarchuk; T.G.Chang; M.J. Dewar; D.M. Jochim | EPRI Presentation, May 19, 1997 |
| 42. Effects of Compression on Recombinant Battery Separator Mats in Valve-Regulated Lead-Acid Batteries | K. MacGregor; A.F. Hollenkamp; M. Barber; T.D. Huyuh; H. Ozgun; C.G. Phyland; A.J. Urban. D.G. Vella; L.H. Vu | <i>Journal of Power Sources</i> , 73 (1998) 65-73 |
| 43. Fundamental Research on the Role of Alloying Tin as a Means to Eliminate the Passivation Phenomena in Lead-Acid Batteries | N. Bui; D. Mattesco; P. Simon; N. Pebere | <i>Journal of Power Sources</i> , 73 (1998) 30-35 |
| 44. Advanced Lead-Acid Battery Consortium Points the Way to Longer Life and Higher Specific Energy for Lead-Acid Electric Vehicle Batteries | P.T. Moseley | <i>Journal of Power Sources</i> , 73 (1998) 122-126 |
| 45. The Brite-Euram Lead-Acid Electric Vehicle Project Progress Report | A. Cooper | <i>Journal of Power Sources</i> , 73 (1998) 127-145 |
| 46. Rapid Charging Electric Vehicles | P.T. Moseley | <i>SBETI Currents</i> , Vol. 3, Spring, 1998 |
| 47. Segregation de L'Argent Dans Les Alliages PbCaSn | Ph. Steyer; J-P Hilger | 41st Colloq. de Métallurgie, INSTN Saclay, June, 1998 |
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| 49. How To Understand the Reversible Capacity Decay of the Lead Dioxide Electrode | E. Meissner | <i>Journal of Power Sources</i> , 78 (1999) 99-114 |
| 50. A Fundamental Study of the Effects of Compression on the Performance of Active Mass in AGM Batteries | M. Calabek; K. Micka; P. Baca; P. Krivak; L. Sacha | <i>Journal of Power Sources</i> , 78 (1999) 94-98 |
| 51. Development of Advanced Electrolyte Retainer for Improvement of Cycle Life Performance of Valve Regulated Lead-Acid Batteries | K. Sawai; M. Shiomi; Y. Okada; K. Nakamura; M. Tsubota | <i>Journal of Power Sources</i> , 78 (1999) 46-53 |
| 52. Grid Technology and Silver Additive Influence on VRLA-AGM Batteries' Performances for Electric Vehicle Application | L. Torcheux; A. Villaron; M. Bellmunt; P. Lailler | Presentation at Labat'99 (<i>future JPS publication</i>) |
| 53. Development of Optimized Fast Charge Algorithms for Lead Acid Batteries | R. Hobbs; D. Karner; F. Fleming; R. Newnham | Presentation at SAE International Congress and Exposition, March, 1999 |
| 54. Mechanism of Formation of Dense Anodic Films of PbO on Lead and Lead Alloys in Sulfuric Acid - Use of an ¹⁸ O Tracer | E. Rocca; J. Steinmetz; S. Weber | <i>Journal of The Electrochemical Society</i> 146 (1), (1999) 54-58. |
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| 56. Progress Towards an Advanced Lead-Acid Battery for Use in Electric Vehicles | P.T. Moseley; A. Cooper | <i>Journal of Power Sources</i> , 78 (1999) 244-250 |
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| 58. The Advanced Lead-Acid Battery Consortium - A Worldwide Cooperation Brings Rapid Progress | P.T. Moseley | <i>Journal of Power Sources</i> , 80 (1999) 1-6 |
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| 60. ALABC ---- new directions | J. F. Cole; P. T. Moseley | <i>Journal of Power Sources</i> 85 (2000) 17-21 |
| 61. Electrochemical Techniques for the Characterization of Expander Materials | C. Francia; M. Maja; P. Spinelli; F. Saez; B. Martinez; D. Marin | <i>Journal of Power Sources</i> , 85 (2000) 102-109 |
| 62. The Effect of Expanders on Lead Sulphate Formation and Reduction | C. Francia; M. Maja; P. Spinelli | <i>Journal of Power Sources</i> , 85 (2000) 110-116 |
| 63. Grid Technology and Silver Additive Influence on VRLA – AGM Battery Performances for Electric Vehicle Applications | L. Torcheux; A. Villaron; M. Bellmunt; P. Lailier | <i>Journal of Power Sources</i> , 85 (2000) 157-163 |
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| 65. Progressive Changes in Positive Active material Over the Lifetime of a Lead Acid Battery | I. Steele; J. Pluth; J. Richardson, Jr | <i>Journal of Power Sources</i> , 95 (2001) 79-84 |
| 66. Effect of Compression on the Behaviour of Lead Acid Batteries | M. Perrin; H. Doring; K. Ihmels; A. Weiss, E. Vogel; R. Wagner | <i>Journal of Power Sources</i> , 95 (2001) 85-96 |
| 67. A Fundamental Study of the Effects of Compression on the Performance of Lead Accumulator Plates | M. Calabek; K. Micka; P. Baca; P. Krivak | <i>Journal of Power Sources</i> , 95 (2001) 97-107 |
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| 69. The Influence of Different Negative Expanders on the Performance of VRLA Single Cells | F. Saez; B. Martinez; D. Marin; P. Spinelli; | <i>Journal of Power Sources</i> , 95 (2001) 174-190 |
| 70. ALABC 2000 – The Way Ahead | P. T. Moseley | <i>Journal of Power Sources</i> , 95 (2001) 218-223 |
| 71. The Effect of Organic Expander Materials on the Performance, Life, Surface Area and Crystal Structure of Negative Electrodes In Valve Regulated Cells | D. Boden; J. Arias; F. Fleming | <i>Journal of Power Sources</i> , 95 (2001) 277-292 |
| 72. “Life and Capacity Improvements in Lead Acid Batteries Through Metal Control Additives” | T. J. Clough; J. A. Wertz | 16 th Long Beach Battery Conference 2001 |
| 73. Challenges for VRLA Separator Technology – A Review of Recent ALABC Research | M. J. Weighall | 16 th Long Beach Battery Conference 2001 |



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| 75. Research Update from European Advanced Lead-Acid Battery Consortium | A. Cooper | <i>Journal of Power Sources</i> , 88 (2000) 53-70 |
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| 79. In Pursuit of High Specific Energy, High Specific Power Valve-Regulated Lead-Acid Batteries | P.T. Moseley; R.D. Prengaman | <i>Journal of Power Sources</i> , 107 (2002) 240-244 |
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| 82. Strap-Grid Tubular Plate – A New Positive Plate for Lead-Acid Batteries, Processes of Residual Sulphation of the Positive Plate | D. Pavlov; G. Papazov; B. Monahov | <i>Journal of Power Sources</i> , 113 (2003) 255-270 |
| 83. The Influence of Different Negative Expanders on the Performance of VRLA Batteries | J. Valenciano; F. Trinidad; M. Fernandez | <i>Journal of Power Sources</i> , 113 (2003) 318-328 |
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| 90. Failure Mode of Valve-Regulated Lead-Acid Batteries under High-Rate Partial-State-of-Charge Operation | L.T. Lam; N.P. Haigh; C.G. Phyland; A.J. Urban | <i>Journal of Power Sources</i> , 133 (2004) 126-134 |
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| 92. Novel Technique to Ensure Battery Reliability in 42-V PowerNets for New-Generation Automobiles | L.T. Lam; N.P. Haigh; C.G. Phyland; T.D. Huynh | <i>Journal of Power Sources</i> , 144 (2005) 552-559 |



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| 93. Current Distribution over the Electrode Circuits in a Cylindrical VRLA Cell During Discharge | P. Krivak; P. Baca, M. Calabek; K. Micka; P. Kral | <i>Journal of Power Sources</i> , 154 (2006) 518-522 |