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List of Publications

1. *“Advanced Automotive Vehicle Market and Battery Technology & Market”*, SAE 2011 Hybrid Vehicle Technologies Symposium (February 2011)
2. *“PHEV and EV Battery Technology Status and Vehicle and Battery Market Outlook”*, Proceedings of the AABC Europe 2011, Mainz, Germany (June 2011)
3. *“The Plug-In Hybrid and Electric Vehicle Opportunity Report – A critical assessment of the emerging market and its key underlying technology: Li-Ion Batteries”*, Multiclient Industry Report published by Advanced Automotive Batteries (Updated May 2011 edition).
4. *“Can Li-Ion Batteries Support a Sustainable EV-PHEV Market? Challenges & Opportunities”*, Proceedings of the 11th Advanced Automotive Battery Conference, Pasadena, CA (January 2011)
5. *“World EV/PHEV/HEV Market and Corresponding Battery Technology and Market”*, presented at the SAE International Vehicle Battery Summit, Shanghai, China (September 2010)
6. *“Can Li-Ion Batteries Support the Proliferation of Plug-in and Electric Vehicles? Status and Prospects”*, Proceedings of the 10th Advanced Automotive Battery Conference, Orlando, FL (May 2010)
7. *“The Plug-In Hybrid and Electric Vehicle Opportunity Report – A critical assessment of the emerging market and its key underlying technology: Li-Ion Batteries”*, Multiclient Industry Report published by Advanced Automotive Batteries (May 2010).
8. *“Lithium-Ion Introduction into the Automotive Market”*, Proceedings of the AABC Europe 2010, Mainz, Germany (February 2010)
9. *“Advanced-Vehicle Technology and Market and Underlying Battery Solutions”*, Tutorial C, AABC Europe 2010, Mainz, Germany (February 2010)
10. *Feedback on ARB’s Zero-Emission Vehicle Staff Technical Report of 11/25/2009 including attachment A: Status of EV Technology Commercialization (January 2010)*
11. *“Electric, Plug-In, and Hybrid Vehicles: Demonstration, Niche Markets, and Mass Markets (Long-Life Battery Included)”*, Proceedings of the 9th Advanced Automotive Battery Conference, Long Beach, CA (June 2009)
12. *“Value Proposition Analysis for Li-Ion Batteries in Automotive Applications”*, Tutorial E, 9th Advanced Automotive Battery Conference, Long Beach, CA (June 2009)

13. *“Design and Value Proposition Analysis for EC Capacitors in Automotive Applications”*, Tutorial B, 9th Advanced Automotive Battery Conference, Long Beach, CA (June 2009)
14. *“Status of Worldwide HEVs and EVs and their Energy-Storage Technology and Market Development”*, Presented at Haus der Technik Technical Conference, Essen, Germany (January 2009)
15. *“Li-Ion Introduction into the Automotive Market, When and How?”*, Proceedings of the 8th Advanced Automotive Battery Conference, Tampa, FL (May 2008)
16. *“Value Proposition Analysis for Li-Ion Batteries in Automotive Applications”*, Tutorial C, 8th Advanced Automotive Battery Conference, Tampa, FL (May 2008)
17. *“HEV Batteries on the Eve of a Technology Change”*, Proceedings of the 7th Advanced Automotive Battery Conference, Long Beach, CA (May 2007)
18. *“Gap Analysis for Li-Ion Batteries in Automotive Applications”*, Tutorial C, 7th Advanced Automotive Battery Conference, Long Beach, CA (May 2007)
19. *“The 2007 Advanced Automotive Battery and Ultracapacitor Industry Report – A comprehensive assessment of an expanding industry on the eve of a technology shift”*, Multiclient Industry Report published in April 2007
20. *“Vehicle Electrification: Can the Battery Step Up to the Challenge, and How?”*, presented at the SAE Conference in San Diego, CA (February 2009)
21. *“Status and Prospects of Battery Technology for Hybrid Electric Vehicles, Including Plug-in Hybrid Electric Vehicles”*, briefing to the U.S. Senate Committee on Energy and Natural Resources, Washington, DC (January 2007)
22. *“Batteries for HEVs 2006 to 2010: NiMH Expansion, Li-Ion Introduction”*, Proceedings of the 6th Advanced Automotive Battery Conference, Baltimore, MD (May 2006)
23. *“Performance of Large Lithium-Ion Batteries in Key Applications and Gap Analysis against Requirements”*, Tutorial C for the 6th Advanced Automotive Battery Conference, Baltimore, MD (May 2006)
24. *“Progress and Outlook for Micro, Mild, and Full Hybrids—Implications for Energy Storage Devices”*, Proceedings of the 5th Advanced Automotive Battery Conference, Honolulu, Hawaii (June 2005).
25. *“Could Ultracapacitors Become the Preferred Energy Storage Device for Future Vehicles?”*, Proceedings of the 5th Advanced Automotive Battery Conference, Honolulu, Hawaii (June 2005).
26. *“The large battery market and opportunities for Li Ion Batteries”*, Tutorial B for the 5th Advanced Automotive Battery Conference, Honolulu, Hawaii (June 2005).

27. *"Recent Advances and Future Outlook of HEV NiMH Batteries"*, Tutorial C for the 5th Advanced Automotive Battery Conference, Honolulu, Hawaii (June 2005).
28. *"The Ultracapacitor Opportunity Report—Could Ultracapacitors Become the Preferred Energy-storage Device for Future Vehicles?"* Multiclient Study published by Advanced Automotive Batteries (March 2005).
29. *"Can Supercapacitors Replace Batteries in Future Hybrid Vehicles? An assessment of cost and performance prospects against vehicle requirements"*, Proceedings of the 14th International Seminar on Double Layer Capacitors and Hybrid Energy Storage Devices, Deerfield Beach, Florida (December 2004).
30. *"Analysis of Ultracapacitor/VRLA Hybrid Power Source for Hybrid Vehicle Applications"*, Proceedings of the 9th ELBC conference held in Berlin, Germany (September 2004).
31. *"Advanced Vehicle Growth and Energy Storage Opportunities and Challenges"*, Proceedings of the 4th Advanced Automotive Battery Conference, San Francisco, California (June 2004)
32. *"Overview of High-Power Energy Storage Technologies for Automotive"*, Tutorial A, co-authored with Dr. Robert Spotnitz of Battery Design Co., for the 4th Advanced Automotive Battery Conference, San Francisco, California (June 2004).
33. *"Power Requirements for Key Advanced-Vehicle Architectures"*, Tutorial B for the 4th Advanced Automotive Battery Conference, San Francisco, California (June 2004).
34. *"Value Proposition of Battery Systems against Key Advanced-vehicle Architectures"*, Tutorial C for the 4th Advanced Automotive Battery Conference, San Francisco, California (June 2004).
35. *"Advanced Vehicle Market Growth and Power Source Technology Challenges"*, Proceedings of the 3rd Advanced Automotive Battery Conference, Nice, France (June 2003).
36. *"High-Power NiMH and Li Ion Batteries"*, Tutorial 3A for the 3rd Advanced Automotive Battery Conference, Nice, France (June 2003).
37. *"Assessment of Recent Improvements in EV/HEV Battery Technology"*, Report to the California Air Resources Board, Sacramento (January 2003).
38. *"In Search of a Battery to Power the 42V Automotive Systems"*, Proceedings of the Intertech 42V Automotive Systems Conference, Cleveland, Ohio (September 2002).
39. *"Batteries for 42V Systems - An Analysis of Potential Battery Solutions"*, Tutorial for the Intertech 42V Automotive Systems Conference, Cleveland, Ohio (September 2002)
40. *"In Search of a Battery to Power Advanced Vehicles"*, Proceedings of the 2nd Advanced Automotive Battery Conference, Las Vegas, Nevada (February 2002), and Ulm Electrochemical Papers Conference, Ulm, Germany (June 2002).

41. *"Batteries for Advanced Vehicles Market and Technology Overview"*, Proceedings of the 114th Battery Council International Convention, Orlando, Florida (April 2002).
42. *"In Search of a Battery to Support the 42V Automotive Architecture"*, Proceedings of the MIT/Industry Consortium on Advanced Automotive Electrical Electronic Components and Systems, Los Angeles, California (January 2002).
43. *"The 2001 Advanced Automotive Battery Industry Report"*, a Multiclient Study published by Advanced Automotive Batteries (November 2001).
44. *"42V and HEV Batteries – Challenges and Opportunities for the Lead-acid Industry"*, Proceedings of the IBMA Conference, Chicago, Illinois (October 2001).
45. *"High-Power Batteries: Design, Performance, Life and Cost"*, M. Anderman, R. Nelson and R. Spotnitz, Advanced Automotive Battery Conference Tutorial, Las Vegas, Nevada (February 2001).
46. *"Advanced Batteries for Electric Vehicles: An Assessment of Performance, Cost, and Availability"*, M. Anderman, F. Kalhammer, D. McArthur, the Year 2000 Battery Technology Advisory Panel, Report to the California Air Resources Board, Sacramento, California (June 2000).
47. *"Performance of Li Ion Cells utilizing LiNiCoO₂ cathode in various applications"*, Proceedings of the 16th International Seminar on Primary and Secondary Batteries, Fort Lauderdale, Florida, (March 1999).
48. *"High-capacity Li Ion Cells Utilizing Mixed Oxide Cathodes"*, Proceedings of the 15th International Seminar on Primary and Secondary Batteries, Fort Lauderdale, Florida (March 1998).
49. *"LEO Test Data on 81 AH, FNC Cells,"* Proceedings of the 10th Annual Battery Conference for Application and Advances, Long Beach, CA (January 1997), also presented at the Intersociety Energy Conversion Engineering Conference in Honolulu, Hawaii (August 1997).
50. *"Design and Performance Data for 81Ah FNC Cells"*, M. Anderman and F. Cohen, presented at the NASA Aerospace Battery Workshop, Huntsville, Alabama (October 1996).
51. *"Common Vessel Monoblock, Sealed Ni-Cd Battery of Flooded Cells,"* Proceedings of 11th International Seminar on Primary and Secondary Batteries, Deerfield Beach, Florida (March 1994).
52. *"Ni-Cd Battery for Aircrafts, Battery Design and Charging Options"*, Proceedings of the 9th Annual Battery Conference on Applications and Advances, Long Beach, CA (January 1994), IEEE (1994).
53. *"Monoblock Sealed Ni-Cd Battery for Electric Vehicles"*, Proceedings of the 9th Annual Battery Conference on Applications and Advances, Long Beach, CA (January 1994).

54. *"Lithium Polymer Batteries for Electrical Vehicles, A Realistic View,"* Solid State Ionics, Vol. 69, pp. 336 (1994).
55. *"New Applications for Fiber Ni-Cd Batteries (FNC)"*, M. Anderman and E. McHenry, Proceedings of the 4th International Rechargeable Battery Seminar, Dearfield Beach, Florida (1992).
56. *"Prismatic Sealed Nickel-Cadmium Batteries Utilizing Fiber Structured Electrodes,"* Part 1, *"New Advances in Cell Design,"* Part 2, *"Applications as a Maintenance-Free Aircraft Battery,"* M. Anderman, F. Haschka, and G. Benczur Urmossy; Proceedings of the 39th Power Source Conference (June 1990).
57. *"Recent Progress in Prismatic Sealed Fiber Structured Nickel-Cadmium Batteries"*, M. Anderman, F. Haschka, and G. Benczur Urmossy; Proceedings of the 3rd International Rechargeable Battery Conference, Dearfield Beach, Florida (1990), and Progress in Batteries and Solar Cells, **9**, 280 (March 1990).
58. *"Advances in Sealed Fiber Nickel Cadmium Batteries"*, M. Anderman, G. Benczur Urmossy, and F. Haschka; Proceedings of the 4th Annual Battery Conference on Applications and Advances, Long Beach, California (January 1989).
59. *"Improved Li-TiS₂ Cells of Spirally-Wound Design"* M. Anderman and J.T. Lundquist, Journal of the Electrochemical Society, **135**, 1167 (1988).
60. *"Iron-Oxide"*, M. Anderman and J.H. Kennedy, Chapter 3 in H. Finkley Editor, Semiconductor Electrodes, Elsevier Scientific, Publishers (1988).
61. *"Rechargeable Li-TiS₂ Cells of Spirally-Wound Design"*, M. Anderman, J.T. Lundquist, S. L. Johnson, and R. T. Giovanni; Proceedings of the 4th International Conference on Lithium Batteries (1988).
62. *"Performance of AA-size Li-TiS₂ Cells"*, M. Anderman and J.T. Lundquist, Proceedings of the Fall Meeting of the Electrochemical Society (Fall 1987).
63. *"Conductive Polymer Batteries; Assessment of Technology,"* M. Anderman and J.T. Lundquist, Proceedings of the Fall Meeting of the Electrochemical Society, (Fall 1985).
64. *"Performance of Li-Polyacetylene Cell"*, M. Anderman and J.T. Lundquist; Proceedings of the Spring Meeting of the Electrochemical Society (Spring 1985).
65. *"Diffusion-Controlled Phenomena in the Photo-oxidation of Reducing Agents at Iron-Oxide Photoanode"*, M. Anderman and J.H. Kennedy; J. Electrochemical Society, **131**, 21 (1984).
66. *"Rotating Ring-Disc Electrode Study of the Competitional Photo-oxidation at Iron-Oxide Photoanode"*, M. Anderman and J.H. Kennedy; J. Electrochemical Society, **131**, 1565 (1984).

67. *"Photoelectrolysis of Water at Iron-Oxide Electrodes in Acidic Solutions,"* J.H. Kennedy and M. Anderman, *Journal of the Electrochemical Society*, **130**, 848, (1983).
68. *"Photoelectrolysis at Polychrystalline Iron-Oxide Electrodes"*, M. Anderman; Ph.D. Thesis – University of California (1983).
69. *"Photoactivity of Polycrystalline Iron-Oxide Electrodes Doped with Group IV Elements"*, J.H. Kennedy, M. Anderman, and R. Shinar; *Journal of the Electrochemical Society*, **128**, 237 (1981).

U.S. Patents:

Composite Cathodic Electrode, (First laminate/polymer structure patent, pre-Belcore), M. Anderman and J.T. Lundquist, **US Patent No. 4,654,281** – 1987

Carbon Electrode, M. Anderman, **US Patent No. 4,791,037** – 1988

Cathodic Electrode, M. Anderman and S.L. Johnson, **US Patent No. 4,735,875** – 1988

Cathodic Electrode, M. Anderman and J.T. Lundquist, **US Patent No. 4,731,310** – 1988

Cathodic Electrode, M. Anderman and S.L. Johnson, **US Patent No. 4,853,305** – 1989

Common Vessel Sealed Rechargeable Battery, M. Anderman and Boris Tsenter, **US Patent No. 5,290,640** – 1994