

## Papers

1	Converting carbon material into a battery negative electrode, <i>TANSO</i> (Journal of The Carbon Society of Japan), 1999, No. 186, 45–49 (in Japanese)	Akira Yoshino
2	Development of Lithium Ion Battery, <i>Molecular Crystals and Liquid Crystals</i> , 2000, Vol. 340, 425–429	Akira Yoshino
3	Development of lithium-ion secondary battery and recent related technology trends, <i>Journal of The Chemical Society of Japan</i> , 2000, No. 8, 523–534 (in Japanese)	Akira Yoshino, Kenji Otsuka, Takayuki Nakajima, Akira Koyama, Satoshi Nakajo
4	Development process and the latest trend for lithium-ion battery technology in Japan, <i>Chinese Journal of Power Sources</i> , 2001, Vol. 25, No. 6, 416–422 (in Chinese)	Akira Yoshino
5	Cathode properties of phospho-olivine $\text{LiMPO}_4$ for lithium secondary batteries, <i>Journal of Power Sources</i> , 2001, Vol. 97–98, 430–432	Shigeto Okada, Shoichiro Sawa, Minato Egashira, Jun-ichi Yamaki, Mitsuharu Tabuchi, Hiroyuki Kageyama, Tokuzo Konishi, Akira Yoshino
6	Overview of carbonaceous materials for lithium ion battery, <i>Molecular Crystals and Liquid Crystals</i> , 2002, Vol. 388, 161–165	Akira Yoshino
7	Development of a Lithium-Type Advanced Energy Storage Device, <i>Journal of the Electrochemical Society</i> , 2004, Vol. 151 (12), A2180–A2182	Akira Yoshino, Toshio Tsubata, Michiko Shimoyamada, Hisashi Satake, Yukiko Okano, Shiro Mori, Shizukuni Yata
8	Hybrid (Asymmetric) Capacitor, <i>Electrochemistry</i> (published by The Electrochemical Society of Japan), Vol. 72, No. 10, 2004, 716–719 (in Japanese)	Akira Yoshino
9	The birth of the lithium-ion battery, <i>Angewandte Chemie International Edition</i> , 2012, Vol. 51, Issue 24, 5798–800	Akira Yoshino

## Review Articles

1	Cylindrical Li-ion secondary battery is in commercialization phase, with twice the capacity of Ni-Cd, <i>Nikkei Electronics</i> , Nov. 14, 1992, 63–70 (in Japanese)	Akira Yoshino, Shintaro Suzuki, Takashi Shimada
2	Secondary battery using carbon, <i>Electronic Ceramics</i> , 1992, Vol. 23, No. 119, 68–72 (in Japanese)	Takayuki Nakajima, Akira Yoshino

3	Development of lithium ion secondary battery, <i>Kagaku Kogyo</i> , 1995, Vol. 46, No. 11, 870–874 (in Japanese)	Akira Yoshino
4	Development and commercialization of lithium ion secondary battery, NEDO-IT-9806-3, 1999, 113–133 (in Japanese)	Akira Yoshino
5	What gave birth to the lithium ion secondary battery, the heart of information technology? And what does the future hold? <i>Petrotech</i> , July 2002, Vol. 25, No. 7, 521–524 (in Japanese)	Akira Yoshino
6	Separator technology necessary for extending the life of secondary batteries and capacitors, <i>Material Stage</i> , 2003, Vol. 3, No. 1, 89–93 (in Japanese)	Akira Yoshino
7	My method of invention, <i>Hatsumei</i> (published by the Japan Institute of Invention and Innovation), 2003, No. 3, 72–74 (in Japanese)	Akira Yoshino
8	Configuration and features of novel high-power energy storage device, <i>Battery Technology</i> , 2005, Vol. 17, 141–147 (in Japanese)	Akira Yoshino
9	Current status of energy devices and development of high-output energy storage devices, <i>Report of the CPC Society</i> , 2006 (in Japanese)	Akira Yoshino
10	<i>R&amp;D Leader</i> , April 2008, No. 25, Technical Information Institute (in Japanese)	Akira Yoshino
11	Lithium ion secondary battery, <i>Expected Materials for the Future</i> , December 2008, NTS Inc. (in Japanese)	Akira Yoshino
12	Secondary battery technology of the present, past, and future, <i>Semiconductor FPD World</i> , 2009, No. 5 (in Japanese)	Akira Yoshino
13	Lithium ion battery, <i>Kagaku Sochi</i> , October 2009, Kogyo Chosakai Publishing (in Japanese)	Akira Yoshino
14	<i>R&amp;D Leader</i> , November 2009, No. 44, Technical Information Institute (in Japanese)	Akira Yoshino
15	Lithium ion secondary battery which supports IT society: Moment of innovation, <i>Chemistry</i> , January 2010, Kagaku Dojin (in Japanese)	Akira Yoshino
16	From battery technology, <i>Sen'i Gakkaishi</i> (Journal of The Society of Fiber Science and Technology, Japan), 2010, Vol. 66 (in Japanese)	Akira Yoshino
17	Focus of battery development for field engineers, <i>Kagaku Sochi</i> , 2010, No. 4 (in Japanese)	Akira Yoshino
18	<i>Polyfile</i> , 2010, Vol. 47, No. 554, Taiseisha (in Japanese)	Akira Yoshino
19	<i>Polyfile</i> , 2010, Vol. 47, No. 555, Taiseisha (in Japanese)	Akira Yoshino
20	Next-generation lithium battery and polymer materials, <i>Seikei Kakou</i> , 2010, Vol. 22, No. 6 (in Japanese)	Akira Yoshino
21	The day the lithium-ion battery was born, <i>Expected Materials for the Future</i> , 2010, No. 11 (in Japanese)	Akira Yoshino
22	<i>Polyfile</i> , 2011, Vol. 48, No. 574, Taiseisha (in Japanese)	Akira Yoshino

23	Lithium-ion battery and powder technology, <i>Journal of the Society of Powder Technology, Japan</i> , 2012, Vol. 49, No. 1 (in Japanese)	Akira Yoshino
24	Lithium-ion battery technology and materials, <i>Engineering Materials</i> , 2012, Vol. 60, No. 11 (in Japanese)	Akira Yoshino
25	Lithium-ion battery overview, <i>Bunseki</i> , The Japan Society for Analytical Chemistry, 2013, Vol. 10, No. 466, 580–584 (in Japanese)	Akira Yoshino
26	Current status and challenges for the lithium-ion battery, <i>Monthly DISPLAY</i> , Techno Times Co., Ltd., Vol. 19, No. 12, 2013, 53–55 (in Japanese)	Akira Yoshino

## Books

1	<i>Lithium Ion Secondary Battery</i> , The Nikkan Kogyo Shimbun, 1996 (in Japanese)	Akira Yoshino et al.
2	<i>Carbon Material for Negative Electrode of Lithium Ion Secondary Battery</i> , Realize, 1996 (in Japanese)	Akira Yoshino et al.
3	<i>Material Technology for High Performance Secondary Battery and Its Evaluation, Application, and Development</i> , Technical Information Institute, 1998 (in Japanese)	Akira Yoshino et al.
4	<i>Lithium Secondary Battery</i> , NTS Inc., 2001 (in Japanese)	Akira Yoshino et al.
5	<i>Development and Materials of New Energy Automobile</i> , CMC Publishing, 2001 (in Japanese)	Akira Yoshino et al.
6	<i>Technological Innovation and Future Prospects for Lithium Secondary Battery</i> , NTS Inc., 2001 (in Japanese)	Akira Yoshino et al.
7	<i>Lithium Secondary Battery Technology for the 21st Century</i> , CMC Publishing, 2002 (in Japanese)	Akira Yoshino et al.
8	<i>High-Capacity Secondary Batteries for Vehicles</i> , CMC Publishing, 2003 (in Japanese)	Akira Yoshino et al.
9	<i>These Ten Years and the Future of Secondary Battery Materials</i> , CMC Publishing, 2003 (in Japanese)	Akira Yoshino (chief editor)
10	<i>Lithium Ion Battery Stories</i> , CMC Publishing, 2004 (in Japanese)	Akira Yoshino
11	<i>Technologies for High Energy Density/High Output in Electric Double Layer Capacitors and Lithium Ion Secondary Batteries for Vehicles</i> , Technical Information Institute, 2005 (in Japanese)	Akira Yoshino et al.
12	<i>Current Status and Perspective of Advanced Materials for Automobiles</i> , CMC Publishing, 2005 (in Japanese)	Akira Yoshino et al.
13	<i>Next-Generation Power Supplies Enabled by Battery Innovation</i> , NTS Inc., 2006 (in Japanese)	Akira Yoshino et al.
14	<i>Advanced Technologies for Ubiquitous Energy</i> , CMC Publishing, 2006 (in Japanese)	Akira Yoshino et al.

15	<i>Carbon Material Science and Material Design VIII</i> , CPC Society, 2006 (in Japanese)	Akira Yoshino et al.
16	<i>Improved Performance and Reliability of Battery Materials</i> , Technical Information Institute, 2007 (in Japanese)	Akira Yoshino et al.
17	<i>Advanced Lithium Ion Secondary Battery</i> , Joho Kiko, 2008 (in Japanese)	Akira Yoshino et al.
18	<i>New Battery Technology Outlook</i> , Electronic Journal, 2008 (in Japanese)	Akira Yoshino et al.
19	<i>Finding Topics for Research and Development</i> , Technical Information Institute, 2008 (in Japanese)	Akira Yoshino et al.
20	<i>Development and Research on Next Generation-Materials for Lithium-ion Rechargeable Battery for Automotive Application</i> , CMC Publishing, 2008 (in Japanese)	Akira Yoshino et al.
21	<i>Lithium-Ion Batteries These 15 Years and Emerging Technologies</i> , CMC Publishing, 2008 (in Japanese)	Akira Yoshino (chief editor)
22	<i>Safety Technologies and Materials for Lithium-ion Batteries</i> , CMC Publishing, 2009 (in Japanese)	Noboru Sato, Akira Yoshino (chief editors)
23	<i>Recent Advances in Surface and Interface Analysis of Polymers</i> , CMC Publishing, 2009 (in Japanese)	Akira Yoshino et al.
24	<i>How to Make a New Research and Development Organization and Culture</i> , Technical Information Institute, 2009 (in Japanese)	Akira Yoshino et al.
25	<i>High Performance Storage Battery</i> , NTS Inc., 2009 (in Japanese)	Akira Yoshino et al.
26	<i>Front Line of the Development of Next Generation Capacitors</i> , Gijutsu Kyoiku Shuppansha, 2009 (in Japanese)	Akira Yoshino et al.
27	<i>Finding Topics for Research and Development</i> , Technical Information Institute, 2009 (in Japanese)	Akira Yoshino et al.
28	<i>Next Generation Batteries 2010</i> , Nikkei BP, 2009 (in Japanese)	Akira Yoshino et al.
29	<i>Handbook of Batteries</i> , Ohmsha, 2010 (in Japanese)	Akira Yoshino et al.
30	<i>Development and Market of Lithium-ion Battery</i> , CMC Publishing, 2010 (in Japanese)	Akira Yoshino et al.
31	<i>Electrode and Battery Materials for Lithium-ion Secondary Battery: Development and Prospects</i> , Joho Kiko, 2010 (in Japanese)	Akira Yoshino et al.
32	<i>Lithium-Ion Battery: Fundamentals and Applications</i> , Baifukan, 2010 (in Japanese)	Akira Yoshino et al.
33	<i>Lithium-Ion Batteries for Vehicles</i> , The Nikkan Kogyo Shimbun, 2010 (in Japanese)	Akira Yoshino et al.
34	<i>Plastics Age Encyclopedia</i> , Plastics Age, 2011 (in Japanese)	Akira Yoshino et al.
35	<i>Electronics and Polymers</i> , Japan Chemical Innovation Institute, 2011 (in Japanese)	Akira Yoshino et al.

36	<i>Technology for Optimization and Improving Efficiency of EV/HEV Batteries, Peripheral Equipment and Electric Supply Systems</i> , Joho Kiko, 2011 (in Japanese)	Akira Yoshino et al.
37	<i>Lithium Secondary Battery Vehicle Mounting Technology, Causes of Deterioration and Malfunctions, and Their Countermeasures</i> , Technical Information Institute, 2011 (in Japanese)	Akira Yoshino et al.
38	Lithium-ion secondary battery, <i>Latest Industrial Chemistry</i> , Tokyo Denki University Press, 2012 (in Japanese)	Akira Yoshino et al.
39	<i>Material Technologies and Market Prospects for Large-scale Lithium-ion Battery</i> , CMC Publishing, 2012 (in Japanese)	Akira Yoshino (chief editor)
40	<i>Innovation: The Path of Japan</i> , Forum – Management for Tomorrow, Inc., 2012 (in Japanese)	Akira Yoshino et al.
41	<i>Improving Film Performance, Forming Processes and Evaluation Technology, Vol. II</i> , AndTech, 2013 (in Japanese)	Akira Yoshino et al.
42	<i>Creating Technology: Messages from the Mainstream of Wisdom</i> , Nikkei BP Consulting, 2013 (in Japanese)	Akira Yoshino et al.
43	<i>Lithium Ion Batteries, Advances and Applications</i> , Elsevier, 2014	Akira Yoshino (co-author)
44	<i>Recent Trends of High Safety and Evaluation Technologies in Lithium-ion Batteries</i> , CMC Publishing, 2014 (in Japanese)	Akira Yoshino (chief editor, co-author)

## Conference Presentations

1	New Advancements in Lithium Ion Batteries with Carbon Materials, The 65th Annual Meeting of Chemical Society of Japan (Spring), Tokyo, Japan, March 28–31, 1993, 547 (in Japanese)	Akira Yoshino
2	Effect of Separator on the Safety of Ion Batteries, The 34th Battery Symposium, Hiroshima, Japan, November 22–24, 1993, 187–188 (in Japanese)	Akira Yoshino
3	Study on the Thermal Behavior of Ion Secondary Battery, The 61st Annual Meeting of The Electrochemical Society of Japan (Spring), Sendai, Japan, April 3–5, 1994, 50 (in Japanese)	Akira Yoshino
4	The Overcharge Behavior of Ion Secondary Battery, The 35th Battery Symposium, Nagoya, Japan, November 14–16, 1994, 191–192 (in Japanese)	Akira Yoshino, Yumiko Takizawa
5	Study of Thermal Characteristics of Lithium Ion Secondary Battery, The 35th Battery Symposium, Nagoya, Japan, November 14–16, 1994, 13–14 (in Japanese)	Toshio Tsubata, Akira Yoshino, Fumiaki Kawakami, Yoshio Suzuki
6	Development of Lithium Ion Secondary Batteries, The 65th Annual Meeting of The Chemical Society of Japan (Spring), Kanagawa, Japan, March 28–31, 1999, 2S3 01 (in Japanese)	Akira Yoshino, Kenji Otsuka, Takayuki Nakajima, Akira Koyama, Satoshi Nakajyo

7	Development of Lithium Ion Battery, The 10th International Symposium on Intercalation Compounds, Okazaki, Japan, May 30 – June 3, 1999	Akira Yoshino
8	Development of Lithium Ion Battery, The 196th Meeting of the Electrochemical Society, Honolulu, Hawaii, USA, October 17–22, 1999	Akira Yoshino
9	Carbonaceous materials for lithium ion battery, The Gordon Conference on Hydrocarbon Resources, January 7–12, 2001, Ventura, California, USA	Akira Yoshino
10	Overview of Carbonaceous Materials for Lithium Ion Battery, The International Symposium on Nanocarbons, November 14–16, 2001, Nagano, Japan, 254–255	Akira Yoshino
11	Development of lithium type energy storage device I—New advanced energy storage devices with high power, The 43rd Battery Symposium, Fukuoka, Japan, October 12–14, 2002, 458–459 (in Japanese)	Toshio Tsubata, Michiko Shimoyamada, Akira Yoshino, Hisashi Satake, Yukiko Okano, Shizukuni Yata
12	Development of lithium type energy storage device II—Development of complex carbon material, The 43rd Battery Symposium, Fukuoka, Japan, October 12–14, 2002, 460–461 (in Japanese)	Toshio Tsubata, Michiko Shimoyamada, Akira Yoshino, Hisashi Satake, Yukiko Okano, Shizukuni Yata
13	Development of lithium type energy storage device III—Study of electrolytic solution, The 43rd Battery Symposium, Fukuoka, Japan, October 12–14, 2002, 462–463 (in Japanese)	Toshio Tsubata, Michiko Shimoyamada, Akira Yoshino, Hisashi Satake, Yukiko Okano, Shizukuni Yata
14	Development of lithium type energy storage device IV—General electrochemical performance, The 44th Battery Symposium, Osaka, Japan, November 4–6, 2003, 36–37	Akira Yoshino, Toshio Tsubata, Michiko Shimoyamada, Hisashi Satake, Shiro Mori, Yukiko Okano, Shizukuni Yata
15	Development of lithium type energy storage device V—Durability of the device, The 44th Battery Symposium, Osaka, Japan, November 4–6, 2003, 38–39	Akira Yoshino, Toshio Tsubata, Michiko Shimoyamada, Hisashi Satake, Shiro Mori, Yukiko Okano, Shizukuni Yata

16	Development of a Lithium-type Advanced Energy Storage Device, The 206th Meeting of the Electrochemical Society, Honolulu, Hawaii, USA, October 3–8, 2004	Akira Yoshino, Toshio Tsubata, Michiko Shimoyamada, Hisashi Satake, Yukiko Okano, Shiro Mori, Shizukuni Yata
17	Overview of Energy Storage Devices using Carbonaceous Materials, The International Symposium on Nanocarbons, November 15–18, 2004, Nagano, Japan	Akira Yoshino
18	Lithium Ion Secondary Battery and New Energy Storage Devices, The 72nd Meeting of the Electrochemical Society (Spring), Kumamoto, Japan, April 1–3, 2005, 401 (in Japanese)	Akira Yoshino
19	Lithium Ion Secondary Battery and Coordination Chemistry, The 57th Conference on Coordination Chemistry, September 25, 2007 (in Japanese)	Akira Yoshino
20	New Energy Storage Devices for HEV, The 46th Battery Symposium, Nagoya, Japan, November 16–18, 2005 (in Japanese)	Akira Yoshino
21	Materials for Negative Electrodes of Lithium Ion Capacitor, The 46th Battery Symposium, Nagoya, Japan, November 16–18, 2005 (in Japanese)	Toshio Tsubata, Michiko Shimoyamada, Akira Yoshino, Hisashi Satake, Shiro Mori, Shizukuni Yata
22	Development of Energy Storage Devices with High Power, The 86th Annual Meeting of Chemical Society of Japan (Spring), Chiba, Japan, March 27–30, 2006 [guest lecture] (in Japanese)	Akira Yoshino
23	Lithium Ion Secondary Battery, The 56th Annual Meeting of The Society of Polymer Science, Japan, Kyoto, Japan, May 29–31, 2007, [guest lecture] (in Japanese)	Akira Yoshino
24	Analysis of Transport Characteristics of Electrolytic Solution with Iodine for Dye-Sensitized Solar Cell Utilizing Nuclear Magnetization Transfer, The 2007 Annual Meeting of The Electrochemical Society of Japan (Fall), Tokyo, Japan, September 19, 2007 (in Japanese)	Kentaro Kawata, Akira Yoshino
25	New polymer electrolytes based on aliphatic polyketones, The 48th Battery Symposium, Fukuoka, Japan, November 13–15, 2007	H. Shobukawa, A. Yoshino, Y. Hashimoto, N. Horiike, S. Yamazaki
26	PFG-NMR analysis of polymer electrolytes based on aliphatic polyketones, The 48th Battery Symposium, Fukuoka, Japan, November 13–15, 2007	Y. Hashimoto, N. Horiike, S. Yamazaki, H. Shobukawa, A. Yoshino

27	Determination of Ionic Species in Electrolytic Solution with Iodine and Discussion of the Transport Characteristics, The 88th Annual Meeting of The Chemical Society of Japan (Spring), Tokyo, Japan, March 26, 2008 (in Japanese)	Kentaro Kawata, Yosuke Saito, Takaya Kubo, Hiroshi Segawa, Akira Yoshino
28	Lithium Ion Battery and Chemical Industry, The 74th Annual Meeting of the Society of Chemical Engineers, Japan (symposium), March 18, 2009 [guest lecture] (in Japanese)	Akira Yoshino
29	Macromolecules Today and Future: Current Status of Secondary Battery and Future Prospects, The 59th Annual Meeting of The Society of Polymer Science, Japan, Yokohama, Japan, May 26–28, 2010 (in Japanese)	Akira Yoshino
30	Ion diffusion behavior in microscopic spaces, The 51st Battery Symposium, Nagoya, Japan, November 9–11, 2010, 2G21 (in Japanese)	Akira Yoshino, Takuya Morikawa, Hirohide Otobe, Aguru Yamamoto, Yasuhiro Hashimoto
31	3-D analysis of micropores of porous structure, The 51st Battery Symposium, Nagoya, Japan, November 9–11, 2010, 2G22 (in Japanese)	Hirohide Otobe, Takuya Morikawa, Aguru Yamamoto, Yasuhiro Hashimoto, Akira Yoshino
32	Analysis of ion diffusion within separator micropores by simulation, The 51st Battery Symposium, Nagoya, Japan, November 9–11, 2010, 2G23 (in Japanese)	Aguru Yamamoto, Hirohide Otobe, Takuya Morikawa, Yasuhiro Hashimoto, Akira Yoshino
33	Analysis of ion diffusion within separator micropores by PFG-NMR, The 51st Battery Symposium, Nagoya, Japan, November 9–11, 2010, 2G24 (in Japanese)	Takuya Morikawa, Hirohide Otobe, Aguru Yamamoto, Yasuhiro Hashimoto, Akira Yoshino
34	Latest Trends of Lithium Ion Battery Technology and Market, 3rd International Symposium on Advanced Plasma Science and its Applications for Nitrides and Nanomaterials, Nagoya, Japan, March 8, 2011	Akira Yoshino
35	Current status of lithium-ion secondly battery and LIBTEC, The 91st Annual Meeting of The Chemical Society of Japan (spring), Yokohama, Japan, March 26–29, 2011, 2H8-26 (in Japanese)	Akira Yoshino

36	Characteristics of $\text{Ca}_3\text{Co}_2\text{O}_6$ positive electrode for calcium-ion battery, The 52nd Battery Symposium, Tokyo, Japan, October 17–20, 2011, 4E20 (in Japanese)	Seiya Ishikawa, Daiki Ueda, Kento Hukuda, Mitsuharu Chisaka, Ryoji Inada, Yutaka Natsume, Fumise Ishi, Seiichi Yamasita, Teiichiro Kohno, Akira Yoshino, Yoji Sakurai
37	Course of development of the lithium-ion battery and future outlook, The Annual Meeting of The Institute of Electronics, Information and Communication Engineers, Okayama, Japan, March 22, 2012 (in Japanese)	Akira Yoshino
38	Lithium-ion battery technology and future society, The 92nd Annual Meeting of the Chemical Society of Japan (spring), Hiyoshi, Japan, March 27, 2012, 3B1-04 (in Japanese)	Akira Yoshino
39	Lithium ion battery and nanotechnology, 8th International Nanotechnology Conference, May 10, 2012, Tsukuba, Japan	Akira Yoshino
40	Lithium Ion Battery Technology and Materials, International Nanofibers Symposium, Tokyo, Japan, June 5, 2012	Akira Yoshino
41	Lithium ion battery and polymer materials, IUPAC MACRO 2012 World Polymer Congress, Blacksburg, VA, USA, June 28, 2012	Akira Yoshino
42	Lithium ion battery and polymer materials, The 42nd Petroleum and Petrochemistry Symposium, Akita, Japan, October 11, 2012 (in Japanese)	Akira Yoshino
43	Effect of electrode drying on electrode structure and battery characteristics, The 53rd Battery Symposium, Fukuoka, Japan, November 14–16, 2012, 2A16 (in Japanese)	Sei Nakao, Tetsuo Ueno, Takashi Shinpuku, Motoki Kanda, Akira Ota, Akira Yoshino
44	Single particle electrochemical behavior of LIB active materials as a basic assessment method, The 53rd Battery Symposium, Fukuoka, Japan, November 14–16, 2012, 3A19 (in Japanese)	Masayasu Yamazaki, Motoki Kanda, Akira Ota, Akira Yoshino
45	Effect of LIB negative electrode structure on battery characteristics, The 53rd Battery Symposium, Fukuoka, Japan, November 14–16, 2012, 3D27 (in Japanese)	Nobuo Eda, Yuto Katsuyama, Daisuke Sawada, Takashi Morimoto, Akemi Yoshida, Daisuke Ogata, Akira Ota, Akira Yoshino
46	3-D Imaging of separator pore structure and $\text{Li}^+$ diffusion behavior, International Battery Association Meeting 2013, Barcelona, Spain, March 11, 2013	Akira Yoshino

47	Lithium-ion battery and energy storage technology, 80th Anniversary Commemorative Project of The Electrochemical Society of Japan, March 28, 2013	Akira Yoshino
48	Future prospects for next-generation lithium-ion batteries, The 62nd Annual Meeting of the Society of Polymer Science Japan, Kyoto, Japan, May 31, 2013 (in Japanese)	Akira Yoshino
49	Lithium ion battery and interface reaction, International Symposium on Relations between Homogeneous and Heterogeneous Catalysis 2013, Aug. 4–9, Sapporo, Japan, [Invited]	Akira Yoshino
50	Study of electrolyte solution decomposition mechanism using first principle calculation, The 54th Battery Symposium, Osaka, Japan, October 7–9, 2013, 1F13 (in Japanese)	Yutaka Natsume, Takuya Morikawa, Naoki Matsuoka, Akira Yoshino
51	Tracking electrolyte solution decomposition behavior using mainly NMR, The 54th Battery Symposium, Osaka, Japan, October 7–9, 2013, 1F14 (in Japanese)	Takuya Morikawa, Naoki Matsuoka, Hitoshi Shobukawa, Akira Yoshino
52	Analysis of lithium-ion battery degradation by alternating-current impedance method, The 54th Battery Symposium, Osaka, Japan, October 7–9, 2013, 2B25 (in Japanese)	Eijirou Iwase, Naoki Matsuoka, Hitoshi Shobukawa, Akira Yoshino
53	Ion diffusion behavior within separator, International Battery Association Meeting 2014, March 6, 2014, Brisbane, Australia [Invited Lecture]	Akira Yoshino
54	Course of development the lithium ion battery and outlook for the future, 247th ACS National Meeting and Exposition, March 16–20, 2014, Dallas, TX, USA [Keynote Lecture]	Akira Yoshino
55	Recent technology of the lithium ion battery, The 6th IEEE International Nanoelectronics Conference, July 29, 2014, Hokkaido Univ., Sapporo, Japan [Keynote Lecture]	Akira Yoshino

## Seminar Presentations

1	Formation Process and Characteristics of Negative Electrode Materials, 1998 February Seminar, The Carbon Society of Japan, February 26, 1998 (in Japanese)	Akira Yoshino
2	PEFC from the Viewpoint of Lithium Battery, Polymer Electronics Research Group, The Society of Polymer Science, Japan, October 24, 2000, 61–64 (in Japanese)	Akira Yoshino
3	Evaluation of Characteristics of Lithium Battery and Other Batteries, Electrochemistry Seminar 4, 59–65, the Electrochemical Society of Japan, 2002 (in Japanese)	Akira Yoshino
4	Evaluation of Characteristics of Lithium Battery and Other Batteries, Electrochemistry Seminar 4, 15–20, the Electrochemical Society of Japan, 2003 (in Japanese)	Akira Yoshino

5	Configuration and Characteristics of New Energy Storage Devices with High Power, The Lithium Battery Research Group, The Electrochemical Society of Japan, June 18, 2004 (in Japanese)	Akira Yoshino
6	Commercialization of Lithium Ion Secondary Battery and the Developments, Conference for Numazu and Yamanashi Sub-Branches, Tokyo Branch, The Institute of Electrical Engineers of Japan, November 25, 2004 (in Japanese)	Akira Yoshino
7	Current Status and Problems of Capacitors Electrochemistry Seminar 1: Advanced Battery Technologies, the Electrochemical Society of Japan, 2005 (in Japanese)	Akira Yoshino
8	Role of Polymer Surface Interface in Lithium Ion Batteries, The 23rd Polymer Surface Research Group Meeting, The Society of Polymer Science, Japan, June 16, 2005 (in Japanese)	Akira Yoshino
9	Current Status of Energy Devices and Development of Energy Storage Devices with High Power, The 2nd CPC Research Group Meeting, The Carbon Society of Japan, June 17, 2005 (in Japanese)	Akira Yoshino
10	On New Lithium-type Energy Storage Devices, The 93rd Regular Meeting, Society of Advanced Battery Technologies, August 18, 2005 (in Japanese)	Akira Yoshino
11	Development of Lithium Ion Secondary Battery and Future Directions, Hokuriku Area, Kinki Region Research Presentation Meeting, The Chemical Society of Japan, November 12, 2005 (in Japanese)	Akira Yoshino
12	Development of Lithium Ion Secondary Battery and Future Directions, The 60th Division of Polymer Processing Meeting, The Society of Rheology, Japan, March 10, 2006 (in Japanese)	Akira Yoshino
13	Achievements in Energy Storage and Generation Technologies, The Kinki Chemical Society Japan Lecture, November 18, 2006 (in Japanese)	Akira Yoshino
14	Components of Lithium Ion Secondary Battery and Their Advancement, Kobunshi Doyukai Lecture, December 1, 2006 (in Japanese)	Akira Yoshino
15	The Next Generation Lithium Ion Secondary Battery and the Separators, The 99th Lecture Meeting of the Japan Society of Polymer Processing, July 17, 2007 (in Japanese)	Akira Yoshino
16	Components of Lithium Ion Secondary Battery and Their Advancement, The 25th Kobunshi Doyukai Lectures, November 26, 2007 (in Japanese)	Akira Yoshino
17	Battery Technologies that Hold Key to the Achievements of Vehicles in the Future, The 7th Symposium, Toyohashi University of Technology, December 10, 2007 (in Japanese)	Akira Yoshino

18	History of Development of Lithium Ion Secondary Battery and Future Directions, CPM Research Group Meeting, The Institute of Electronics, Information and Communication Engineers, February 22, 2008 (in Japanese)	Akira Yoshino
19	Reliability and Safety of Lithium Ion Secondary Battery, The 38th Reliability and Safety Symposium, Union of Japanese Scientists and Engineers, July 15, 2008 (in Japanese)	Akira Yoshino
20	The Future Prospects of Lithium Ion Secondary Battery and the Separators, Plastic Film Research Group Meeting, The Society of Polymer Science, Japan, August 29, 2008 (in Japanese)	Akira Yoshino
21	Lithium Ion Secondary Battery and Future Automobiles, The 10th IEEE Hiroshima Student Symposium, November 22, 2008 (in Japanese)	Akira Yoshino
22	Recent Trends and Future of Lithium Ion Secondary Battery, Meeting of the Research Group on Polymer-Water Separation, The Society of Polymer Science, Japan, December 4, 2008 (in Japanese)	Akira Yoshino
23	He Who Commands the Battery has Command of Everything, The Advanced Fiber Material Research Conference (AFMc), The Society of Fiber Science and Technology, Japan, March 6, 2009 (in Japanese)	Akira Yoshino
24	The Next Generation Lithium Ion Secondary Battery and Polymeric Materials, The 112th Lecture Meeting of the Japan Society of Polymer Processing, July 3, 2009 (in Japanese)	Akira Yoshino
25	History of Development of Lithium Ion Secondary Battery and Current Status, The 19th Conference for Niigata Sub-Branch, Tokyo Branch, The Institute of Electrical Engineers of Japan, November 7, 2009 (in Japanese)	Akira Yoshino
26	History of Development of Lithium Ion Secondary Battery and Current Status, The 28th Noyori Forum, November 20, 2009 (in Japanese)	Akira Yoshino
27	Key to Success in Research and Development Learned from the Development Processes of Lithium Ion Secondary Battery, The 3rd Noyori Seminar, December 4, 2009 (in Japanese)	Akira Yoshino
28	Stories of Lithium Ion Battery, The 19th N-Cube Research Conference, Nagoya Institute of Technology, January 14, 2010 (in Japanese)	Akira Yoshino
29	History of Development of Lithium Ion Secondary Battery and Future Directions, The 10th Advanced Science and Technology Lectures, Shimane Institute for Industrial Technology, January 28, 2010 (in Japanese)	Akira Yoshino

30	Through the Development Work of Lithium Ion Secondary Battery, Technical Meeting, Japan Dyestuff and Industrial Chemicals Association, February 1, 2010 (in Japanese)	Akira Yoshino
31	Rapidly Changing Secondary Battery Industry: Current Status and Future Direction, Chugoku-Shikoku Division Special Lecture, The Japan Society for Precision Engineering, April 2, 2010 (in Japanese)	Akira Yoshino
32	Evolutionary Process of Lithium Ion Battery and Battery Materials, The 7th Lithium Ion Battery for Electric Vehicles Research Group Forum, April 26, 2010 (in Japanese)	Akira Yoshino
33	Through the Development Work of Lithium Ion Secondary Battery, Technical Meeting, Japan Dyestuff and Industrial Chemicals Association, July 15, 2010 (in Japanese)	Akira Yoshino
34	Current Status of Lithium Ion Battery and the Future Prospects, the 41st Summer Seminar of the Society of Fiber Science and Technology, Japan, August 27, 2010 (in Japanese)	Akira Yoshino
35	Current Status and Future Prospects of the Rechargeable Battery Industry, Chugoku-Shikoku Branch Special Lecture of The Japan Society of Mechanical Engineers, September 27, 2010 (in Japanese)	Akira Yoshino
36	History of Development of the Lithium Ion Secondary Battery and Future Directions, The 32nd Seminar of The Kinki Chemical Society Japan, October 2, 2012 (in Japanese)	Akira Yoshino
37	Current Status of the Lithium Ion Secondary Battery and Upcoming Prospects, Conference of The Institute of Electrical Engineers of Japan, October 20, 2010 (in Japanese)	Akira Yoshino
38	Current Status of the Lithium Ion Secondary Battery and Future Directions, Lecture of the Kanto Branch of The Chemical Society of Japan, October 21, 2010 (in Japanese)	Akira Yoshino
39	Current Status of the Lithium Ion Secondary Battery and Future Outlook, Autumn Lecture of the Kyushu Branch of The Electrochemical Society of Japan, October 28, 2010 (in Japanese)	Akira Yoshino
40	The Latest Li-B Trends, The 53rd Japan Institute of Electronics Packaging Seminar, November 17, 2010 (in Japanese)	Akira Yoshino
41	History of Development of the Lithium Ion Secondary Battery and Future Outlook, Fiber Application Seminar, The Society of Fiber Science and Technology, November 18, 2010 (in Japanese)	Akira Yoshino
42	Current Status of the Lithium Ion Battery and LIBTEC, February Seminar of The Carbon Society of Japan, February 4, 2011 (in Japanese)	Akira Yoshino
43	Current Status and Challenges of the Lithium Ion Battery, Meeting of The Research Group of Polymer-Water Separation, The Society of Polymer Science, Japan, March 17, 2011 (in Japanese)	Akira Yoshino
44	Current Status of Lithium Ion Battery Development, 11-2 Polymer Frontier 21, The Society of Polymer Science, Japan, June 10, 2011 (in Japanese)	Akira Yoshino

45	Current Status of Lithium Ion Battery Development and LIBTEC Projects, Battery Seminar, The Kinki Chemical Society Japan, November 6, 2011 (in Japanese)	Akira Yoshino
46	Future Outlook for Lithium Ion Battery and Other Electricity Storage Technologies, CSJ Chemical Festival, The Chemical Society of Japan, November 15, 2011 (in Japanese)	Akira Yoshino
47	Current Status and Challenges of the Lithium Ion Battery, Meeting of The Research Group of Polymer-Water Separation, The Society of Polymer Science, Japan, March 15, 2012 (in Japanese)	Akira Yoshino
48	Polymers Useful for Forthcoming Electricity Generation and Electricity Storage, The 57th Summer Polymer Seminar, The Society of Polymer Science, Japan, July 18, 2012 (in Japanese)	Akira Yoshino
49	Current Status of the Lithium Ion Battery and Future Prospects, Seminar for Kanto Branch, The Chemical Society of Japan, September 6, 2012 (in Japanese)	Akira Yoshino
50	Development of the Lithium Ion Battery and Future Prospects, IEEE Tokyo Section Lecture, November 26, 2012 (in Japanese)	Akira Yoshino
51	Next Generation Lithium Rechargeable Batteries and Polymer Materials, JSPP Symposium 2012, The Japan Society of Polymer Processing, November 30, 2012 (in Japanese)	Akira Yoshino
52	Invention of the Lithium Ion Battery and Unresolved Challenges, Symposium for Division of Electronics, The Society of Chemical Engineers, Japan, December 3, 2012 (in Japanese)	Akira Yoshino
53	The Lithium Ion Battery—Present, Past, and Future, The 166th R&D Forum, The Chemical Society of Japan, September 6, 2013 (in Japanese)	Akira Yoshino
54	The Way of R&D in a Corporation, The 121st R&D Panel, Kobunshi Doyukai, The Society of Polymer Science, Japan, March 14, 2014 (in Japanese)	Akira Yoshino
55	The Lithium Ion Battery—Present, Past, and Future, Special Lecture, The Surface Science Society of Japan, May 24, 2014	Akira Yoshino
56	How the Lithium Ion Battery Was Born, The 18th Colloid and Surface Engineers Forum, The Chemical Society of Japan, July 17, 2014	Akira Yoshino