

References:

1. F.Azeez, "Lithium Bis (Oxalato) Borate-Based Electrolyte for Lithium-Ion Cells" Ph.D, Chemical, Biomolecular Engineering Raleigh, North Carolina state univ 2009.
2. D. Aurbach, Y.Gofer, Z.Lu, A. schechter ,O.chusid, H. Gizbar, Y.Cohen ,V.Ashkenazi , R. Turgeman, E.Levi , J. power sources 97 (2001) 28.
3. Ji. Sun Oh, Jang. Myoun Ko, Dong. Won Kim. J.Electroch. Acta 50 (2004) 903.
4. E. Sheha, J. Non-Cryst. Solids 356 (2010) 2282.
5. A.A.Mohamad and A.K.Arof. J. Mater. Letters 6 (2007) 3096.
6. M.A. Ratner, "Polymer Electrolyte Reviews1", J.R. Maccallum and C.A.Vincent, p.173, Elsevier Appl. Science, London 1987.
7. M. C. Wintersgill, J. J. Fontanella. "Polymer electrolyte reviews I" J. R. Mccallum and C. A. Vincent Elsevier Applied Science Publisher, London, 1987.
8. W. Krawiec, L.G. Scanlon, Jr, j.p. Fellner, R.A. Vaia, S. Vasudevan, E.P. Giannelis, J. Power Sources 54 (1995) 310.
9. C. Capiglia, P. Mustarelli , E. Quartarone, C. Tomasi, A. Magistris, J. Solid State Ionics 118 (1999) 73.
10. P. Balaji Bhargav, V. Madhu Mohan, A. K. Sharma, V. V. R. N. Rao.J. Ionics 13 (2007) 441.

11. P. Balaji Bhargav, V. Madhu Mohan, A. K. Sharma, V. V. R. N. Rao. *J. Ionics* 13 (2007) 173.
12. M. Hema, S. Selvasekerapandian, A. akunthalaa, D. Arunkumara, H. Nithya. *J. Physica B* 403 (2008) 2740.
13. M. Hema, S. Selvasekarapandian, D. Arunkumar, A. Sakunthala, H. Nithya . *J. Non-Cryst. Solids* 355 (2009) 84.
14. M. Hema, S. Selvasekerapandian, G. Hirankumar, A. Sakunthala , D. Arunkumar, H. Nithya. *J. Phys. and Chem. of Solids* 70 (2009) 1098.
15. E. Sheha, M. K. El-Mansy, J. power sources 185 (2008) 1509.
16. S. Badr, E. Sheha, R. M. Bayomi, M. G. El-Shaarawy. *J. Ionics* 16(2010)269.
17. C. U. Devi, A.K. Sharma, V.V.R.N. Rao. *J. Mater. Letters* 56 (2002) 167.
18. M.E. Ferna´ ndez, J.E.Diosa, R.A.Vargas. *J. Microelectr.* 39 (2008) 1344.
19. M. E. Gouda, S. K. Badr, M. A. Hassan, E. Sheha. *Ionics*. 17(2011) 255.
20. S. A. Suthanthiraraj, D. J. Sheeba, B. J. Paul. *J. Mater. Res. Bull.* 44 (2009) 1534.
21. M.F.Z. Kadir, S.R. Majid, A.K. Arof. *J. Electroch. Acta* 55 (2010) 1475.

22. M. Kumar, S.S. Sekhon. J. Europ. Polym. 38 (2002) 1297.
23. H. M. J. C. Pitawala, M. A. K. L. Dissanayake, V. A. Seneviratne ,
B.E. Mellander, I. Albinson. J. Solid Stat. Electroch. 12 (2008)
783.
24. G. Girish Kumar, N. Munichandraiah. J. Power Sources 91(2000)
157.
25. D. Aurbach, Y. Gofer, Z. Lu, A. Schechter, O. Chusid, H. Gizbar,
Y. Cohen, V. Ashkenazi, M. Moshkovich, R. Turgeman, E. Levi.
J.power 97 (2001) 28.
26. Ji. Oh, K.Myoun, D. Kim. J. Electroch. Acta 50 (2004) 903.
27. Christopher, S. Johnson. J. Power Sources 165 (2007) 559.
28. M.B.J.G. Freitas, V.C. Pegoretti, M.K. Pietre. J. Power Sources
164 (2007) 947.
29. S. Lee, B. Choi, N. Hamasuna, C. Fushimi, A.Tsutsumi. J.Power
Sources 181 (2008) 177.
30. M. Manickama, P. Singh, T. Issa, S. Thurgate, R. Marco. J. Power
Sources 130 (2004) 254.
31. J. Choi, G. Cheruvally, H. Ahn, K. Kimb, J. Ahn. J. Power
Sources 163 (2006) 158.
32. T.B. Kima, J.W. Choi, H.S. Ryu, G.B. Cho, K.W. Kim, J.H. Ahn,
K.K. Cho, H.J. Ahn . J. Power Sources 174 (2007) 1275.

33. E. Peled, D. Golodnitsky, G. Ardel, J.Lang, Y.Lavi. J. Power Sources 54 (1995) 496.
34. E. Strauss, D. Golodnitsky, E. Peled. J. Electroch. Acta 45 (2000) 1519.
35. Y.Horn, Q. Horn J. Electroch. Acta 46 (2001) 2613.
36. E. Strauss, G. Ardel, V. Livshits, L. Burstein, D. Golodnitsky, E. Peled. J. Power Sources 88(2000) 206.
37. E. Peled, D. Golodnitsky, E. Strauss, J. Lang and Y. Lavi. J. Electroch. Acta, 43 (1998) 1593.
38. S. Kostov, M. denBoer, E. Strauss, D. Golodnitsky, S.G. Greenbaum, E. Pele. J. Power Sources 81(1999) 709.
39. G. Ardel, D. Golodnitsky, K. Freedman, E. Peled, G.B. Appetecchi, P. Romagnoli, B. Scrosati. J. Power Sources 110 (2002) 152.
40. A.G. Ritchie, P.G. Bowles, D.P. Scattergood. J. Power Sources 136 (2004) 276.
41. E. Strauss, D. Golodnitsky, K. Freedmana, A. Milner, E. Peleda. J. Power Sources 115 (2003) 323.
42. V. Livshits, A. Blum, E. Strauss, G. Ardel, D. Golodnitsky, E. Peled .J. power sources 97(2001) 782.

43. KANLUO, "Design, Synthesis and Characterization of Novel Electrolytes for Lithium-Ion Batteries", Ph.D, Illinois Institute of Technology, 2009.
44. E. Sheha "Study the Structure; Dielectric and Electrochemical Properties of Alkali Sulfate Based Solid Electrolyte", Ph.D, Benha University, 2009.
45. A. Chakrabarti, "Design and Synthesis of New Electrolytes Systems for Lithium-Ion Batteries", Ph.D. Chicago, Illinois College of the Illinois Institute of Technology July 2008.
46. B. Rezaei, S. Mallakpour, M. Taki. J. Power Sources 187 (2009) 605.
47. F. Liua, T. Hsua, C. Yang. J. Power Sources 191 (2009) 678.
48. D.K.LEE, "Ion Conduction Mechanisms in Polymer Electrolytes for Lithium Batteries and Fuel Cells, and Crystal Engineering of Cyclophosphazenes", Ph.D, the Pennsylvania State Univ. August 2010.
49. R.NAFSHUN, "The Synthesis and Characterization of Novel Materials for Use in Secondary Lithium –Ion Batteries", Ph.D oregon state univ. August, 1996.
50. http://en.wikipedia.org/wiki/Polyvinyl_alcohol.
51. A. Tawansi, A. El-Khodary, M.M. Abdelnaby, J. Current Applied Physics, 5 (2005) 572.

52. K. A. Abdelkader, Z. Anwar, J. Appl. Polym. Sci. 2 (2006) 1146.
53. D. Pradhan, B.K. Samantaray, R.N.P. Choudhary, A. Thakur. J. Power Sources 139 (2005) 384.
54. [http://en.wikipedia.org/wiki/ Ethylene carbonate](http://en.wikipedia.org/wiki/Ethylene_carbonate).
55. N. Udawatte, "Gold Nanoparticle-Modified Zinc Oxide Nanoparticles as Novel Photocatalytic Materials", Ph.D western michigan univ. 2010.
56. S. Qingwen, "Nano Composite Phase Change Materials Microcapsules", Ph.D, the Hong Kong Polytechnic Univ.2009.
57. W. Kubo, K. Murakoshi, T. Kitamura, S. Yoshida, M. Hakuri, K. Hanabusa, H. Shirai, Y. Wada, S. Yanagida, J. Phys. Chem. B 105 (2001) 12809.
58. M.Osman, "Neutron Transmutation Doping of Silicon", Ph.D Alexandria Unive.2003.
59. V. Raja, A.K. Sharma, V.V.R. Narasimha Rao, J. Mat. Letters 58 (2004) 3242.
60. R. J. Macdonald, "IMPEDANCE SPECTROSCOPY", John Wiley and Sons, New York (1987).
61. I. Bunget, M. Popescu, "PHYSICS OF DIELECTRICS SOLIDS ", Elsevier, Romania, 1984.
62. A. K. Sharma, Ch. Ramu, J. Mat. Lett. 11 (1991) 128.
63. Tareev, "Physics of Dielectric Materials", Moscow, 1975.

64. J. D. Jackson, "Classical Electrodynamics", Wiley, New York, univ. 1962.
65. H. V. Keer, "Principles of the Solid State", Willy Eastern, univ. 1993.
66. M. Hodge, GH. Edward, GP. Simon, J. Polymer 37(1996) 1371.
67. B. Pejova and I. Grozdanov, J.Mater. Chem. Phys. 90 (2005) 35.
68. S. Badra and E. Sheha, J.Polymer international 60 (2011)3058.
69. R. Guo, Ma. Xiaocong, Hu.Changlai, Z. Jiang J.Polymer 48 (2007) 2939.
70. E. M. Abdelrazek, I. S. Elashmawi, A. El-khodary, A. Yassin, J. Current Appl. Phys.10 (2010) 607.
71. D. Kim, H. Park, Ji. Rhim, Y. Lee, J. Membr. Sci. 240 (2004) 37.
72. C. K. Suman, J. Yun, S. Kim, S. Lee, C. Lee, J.Current appl. Phys. 9 (2009) 978.
73. R. H. Y. Subban, A. K. Arof, J. Eurpean polymer 40 (2004) 1841.
74. S. R. Majid, A. K. Arof, J. Molec. Cryst. Liquid Cryst 484 (2008) 117.
75. E. Sheha, J. Solid State Ionics 180 (2009) 1575.
76. C.Kittel, "Introduction to solid state physics", Wiley Eastern univ. 1979.
77. A. Awadhia, S. K. Patel, S. L. Agrawa, J. progr.in crystal growth charact.of mater. 52 (2006) 61.

- 78. S. Ramesh, A. H. Yahaya, A. K. Arof, J. Solid State Ionics 152 (2002) 291.
- 79. G. Govindaraj, N. Baskaran, K. Shahi, P. Monoravi, J. Solid State Ionics 76 (1995) 47.
- 80. A.K. Jonscher, J. Nature 267 (1977) 673.
- 81. S. Huang, H. Lee, W. Kang J. Korean Ceramic Society 42 (2005).
- 82. N. Cui. J. L. Lou, J. Electroch. Acta 44 (1998) 711.
- 83. A. Catherino, F. Feres, F. Trinidad, J. Power Sources 129 (2004)113.