**Training Dataset**

H.Y.P. Hong, Mater. Res. Bull. 11 (1976) 173-182.

H. Aono, A. Sugimoto, J. Am. Ceram. Soc. 79 (1996) 2786-2788.

J.M. Winand, A. Rulmont, P. Tarte, J. Solid State Chem. 93 (1991) 341-349.

J.L. Rodrigo, J. Alamo, Mater. Res. Bull. 26 (1991) 475-480.

H.Y.P. Hong, J.B. Goodenough, J.A. Kafalas, Mater. Res. Bull. 11 (1976) 203-220.

L. Bennouna, S. Arsalane, R. Brochu, M.R. Lee, J. Chassaing, M. Quarton, J. Solid State Chem. 114 (1995) 224-229.

M.P. Carrasco, M.C. Guillem, J. Alamo, Solid State Ionics 63/65 (1992) 684-687.

M.P. Carrasco, M.C. Guillem, J. Alamo, Solid State Ionics 63/65 (1992) 688-691.

M.P. Carrasco, M.C. Guillem, J. Alamo, Mater. Res. Bull. 28 (1993) 547-556.

A. Ignaszak, P. Pasierb, R. Gajerski, S. Komornicki, Thermochim. Acta 426 (2005) 7-14.

U.V. Alpen, M.F. Bell, H.H. Hoefer, Solid State Ionics 34 (1981) 215-218.

D. Yvanov, J. Currie, H. Bouchard, A. Lecours, J. Andrian, A. Yelon, S. Poulin, Solid State Ionics 67 (1994) 295-299.

E.M. Vogel, R.J. Cava, E. Rietman, Solid State Ionics 14 (1984) 1-6.

T. Takahashi, K. Kuwabara, M. Shibata, Solid State Ionics 1 (1980) 163-175.

F. Krok, D. Kony, J.R. Dygas, W. Jakubowski, W. Bogusz, Solid State Ionics 36 (1989) 251-254.

E.R. Losilla, M.A.G. Aranda, S. Bruque, A.R. West, Chem. Mater. 12 (2000) 2134-2142.

J.M. Winaud, A. Rulmont, P. Tarte, J. Mater. Sci. 25 (1990) 4008-4013.

C. Delmas, J.C. Viala, R. Olazcuaga, G.L. Flem, P. Hagenmuller, Solid State Ionics 34 (1981) 209-214.

J.M. Winand, A. Rulmont, P. Tarte, J. Solid State Chem. 87 (1990) 83-94.

M. Nagai, S. Fujitsu, T. Kanazawa, Solid State Ionics 34 (1981) 233-236.

Y. Miyajima, Y. Saito, M. Matsuoka, Y. Yamamoto, Solid State Ionics 84 (1996) 61-64.

Y. Miyajima, T. Miyoshi, J. Tamaki, M. Matsuoka, Y. Yamamoto, C. Masquelier,

M. Tabuchi, Y. Saito, H. Kageyama, Solid State Ionics 124 (1999) 201-211.

F. d'Yvoire, M. Pintard-Screpel, E. Bretey, M.d.l. Rochere, Solid State Ionics 9/10 (1983) 851-858.

L. Boehm, C.J. Delbecq, E. Hutchinson, S. Susman, Solid State Ionics 5 (1981) 311-314.

P. Maldonado-Manso, M.A.G. Aranda, S. Bruque, J. Sanz, E.R. Losilla, Solid State Ionics 176 (2005) 1613-1625.

F.E. Mouahid, M. Bettach, M. Zahir, P. Maldonado-Manso, S. Bruque, E.R. Losilla, M.A.G. Aranda, J. Mater. Chem. 10 (2000) 2748-2753.

M.A. Subramanian, P.R. Rudolf, A. Clearfield, J. Solid State Chem. 60 (1985) 172-181.

**Test Dataset**

A .Feltz , S. Berth, Solid State Ionics 9 & 10 (1983) 817-822.

S.A. Novikova, R.V. Larkovich, A.A. Chekannikov, T.L. Kulova, A.M. Skundin, A.B. Yarosalvtsev, Inorganic Materials 54, 10 (2018) 794–804.

O.P. Shrivastava, N. Kumar, R. Chourasia, J Mater Sci 42 (2007),:2551–2556

M. Kaus, M. Guin, M. Yavuz, M. Knapp, F. Tietz, O. Gullon, H. Ehrenberg, S. Indris, The Journal of Physical Chemistry C 121, 3 (2017) 1449-1454.

F. Brunet, N. Bagdassarov, R. Miletich, Solid State Ionics 159 (2003) 35– 47

N. Anantharamulu, R. Velchuri, T. Sarojini, K. Madhavi, G. Prasad, M.Vithal Indian Journal of Engineering & Materials Sciences 16 (2009), 347-354