CURRICULUM VITAE

Name: **Nobuo ISHIZAWA**
Title: Professor
Date of Birth: 3 May 1949
Citizenship: Japan
Address: Ceramics Research Laboratory, Nagoya Institute of Technology
Asahigaoka, Tajimi 507-0071, Japan
Telephone: +81 572 27 9960
Fax: +81 572 27 6812
E-mail: ishizawa@crl.nitech.ac.jp

Educational Background:

1969-1974 Tokyo Institute of Technology, Faculty of Engineering, Department of Inorganic materials

1974-1979 Tokyo Institute of Technology, Interdisciplinary Graduate School of Science and Engineering, Department of Materials Science, Master and Doctor Course

Doctor thesis: "Crystallographic Study of the Phase Transition of $A_2B_2O_7$ Ferroelectrics with Perovskite-Type Slabs". (1979, Tokyo Institute of Technology)

Work Experience:

1982-1988: Research Associate, Faculty of Engineering, Tokyo Institute of Technology

1988-2003 Sept: Associate Professor, Materials and Structures Laboratory, Tokyo Institute of Technology

2003 Oct - present : Professor, Ceramics Research Laboratory, Nagoya Institute of Technology

Past and present ICDD related activities:

1988-1998: Secretary of the Japanese Committee on Powder Diffraction Data
1991-present: Member of the International Centre for Diffraction Data
1999-present: Chairman of the Japanese Committee on Powder Diffraction Data
2002-present: Regional Co-chair of the International Centre for Diffraction Data
2003-present: Fellow of the International Centre for Diffraction Data

Other academic Activities (present):

Co-editor of Acta Crystallographica Section C
Member of the Ceramics Society of Japan, Japan Society of Applied Physics, and the Mineralogical Society of Japan, Chemical Society of Japan.

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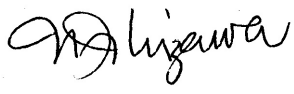

Recent refereed papers (1998-present)

1. Synchrotron X-ray Imaging of Electron Density in $RFeO_3$ (R=Y & Ho) Using an APD detector
   V. A. Streltsov, N. Ishizawa & S. Kishimoto
   J. Synchrotron Radiation, **5**, 1309-1316 (1998)

2. Growth of Layered Perovskite-Type $Na_2Ca_2Nb_4O_{13}$ Crystals by the Na_2SO_4 Flux Method
   Shunji Oishi, Yoshiteru Nagai, Koji Chiba & Nobuo Ishizawa
   Chem. Lett.1998, 439-440 (1998)

3. A fast detector using stacked avalanche photodiodes for X-ray diffraction experiments with synchrotron radiation
   S. Kishimoto, N. Ishizawa, T. P. Vaalsta
   Rev. Sci. Instrum. **69**[2], 384-391(1998)

4. Synthesis and Characterization of Five-Coordinate 1:1 Adduct Derived from Diphenyltin(IV) Dichloride and 6-methoxy-2-[(4-cyanophenylimino)methyl]phenol
   Guen-Yeow Yeap, Nobuo Ishizawa & Yoshiyuki Nakamura
   Journal of Coordination Chemistry, **44**, 325-333 (1998)

5. Structure of Layered Perovskite-Type $Na_2Ca_2Nb_4O_{13}$ Single Crystals
   K. Chiba, N. Ishizawa, Y.Nagai & S. Oishi
   Solid State Ionics, **108**, 179-183 (1998)

6. Synthesis and powder X-ray diffraction data of a new iron phosphate $Fe(PO_4).0.5H_2O$
   N. Ishizawa, A. Saiki, K. Ohdan & M. Ai
   Powder Diffraction, **13**[4] 246-248 (1998)

7. Dibutyldichlorobis[(2-phenylethylimino)methyl]phenol]tin(IV)
   G-Y. Yeap & N. Ishizawa
   Acta Cryst., **C54**[6] 720-722,(1998)

8. New Tin-Schiff's Base Materials: Molecular Structures And Single Crystal Structure Determination
   Guan-Yeow Yeap & Nobuo Ishizawa
   Mol. Cryst. Liq. Cryst. **318**, 253-266, (1998)

9. Synchrotron X-ray Study of the electron density in $RFeO_3$ (R=Nd,Dy)
   V. A. Streltsov & N. Ishizawa
   Acta Cryst., **B55**[1] 1-7,(1999)

10. Phase Relations in the System In_2O_3-TiO_2-Fe_2O_3 at 1100°C in Air
    F. Brown, M. J. R. Flores, N. Kimizuka, Y. Michiue, M. Onoda, T. Mohri, M. Nakamura & N. Ishizawa
    J. Solid State Chem., **144** 91-99,(1999)

11. Solution and Refinement of the Crystal Structure of $Bi_7Ta_3O_{18}$
    C. D. Ling, S. Schmidt, R. L. Withers, J. G. Thompson, N. Ishizawa & S. Kishimoto
    Acta Cryst., **B55**[2], 157-164 (1999)

12. A Ruddlesden-Popper-type layered perovskite $Na_2Ca_2Nb_4O_{13}$

K. Chiba, N. Ishizawa & S. Oishi
Acta Cryst., **C55**[7] 1041-1044 (1999)

13. The Crystal Structure of $Ca_7Zr_7Ta_6O_{36}$ Refined Using Synchrotron Radiation Data
S. Schmidt, J. G. Thompson, R. L. Withers, C. D. Ling, N. Ishizawa & S. Kishimoto
Acta Cryst., **B55**[3], 313-320 (1999)

14. Synchrotron X-ray analysis of the electron density in $HoFe_2$
V. A. Streltsov and N. Ishizawa
Acta Cryst., **B55**[3], 321 – 326 (1999).

15. Synchrotron Radiation Study of Yttria Stabilised Zirconia, $Zr_{0.758}Y_{0.242}O_{1.879}$
N. Ishizawa, Y. Matsushima, M. Hayashi and M. Ueki
Acta Cryst., **B55**[5], 726-735 (1999)

16. Measurement technique for the evaluation of residual stress in epitaxial thin film by asymmetric X-ray diffraction
Hiroshi Uchida, Takanori Kiguchi, Atsushi Saiki, Naoki Wakiya, Nobuo Ishizawa, Kazuo Shinozaki & Nobuyasu Mizutani
J. Ceram. Soc. Japan, **107**[7] 606-610 (1999)

17. Growth of Barium Chlorapatite Crystals from a Sodium Chloride Flux
Shuji Oishi, Noriyuki Michiba, Nobuo Ishizawa, Rendon J.C. Angeles & Kazumichi Yanagisawa
Bulletin of the Chemical Society of Japan, **72**[9] 2097-2101 (1999)

18. A New Flux, NaCl, to Grow Layered Perovskite-Type $Na_2Ca_2Nb_4O_{13}$
Shunji Oishi, Masaya Kanoh & Nobuo Ishizawa
Chem. Lett.1999, 1011-1012 (1999).

19. Topotaxial replacement of chlorapatite by hydroxyapatite during hydrothermal ion exchange;
K. Yanagisawa, J. C. Rendon-Angeles, N. Ishizawa & S. Oishi
Amer. Mineralogist **84**,[11/12] 1861-1869 (1999).

20. GLIDE TWINNING OF CHALCOPYRITE-TYPE $AgGaS_2$: MORPHOLOGY AND FORMATION MECHANISM
H. Kitahara, N. Ishizawa & Y. Noda
Advances in X-ray Analysis, **43**, 344-349 (2000)

21. Conversion of Calcium Fluorapatite into Calcium Hydroxyapatite Under Alkaline Hydrothermal Conditins;
J. C. Rendon-Angeles, K. Yanagisawa, N. Ishizawa & S. Oishi
J. Solid State Chemistry , **151**, 65-72 (2000).

22. Synchrotron X-ray study of the monoclinic high-pressure structure $AgGaS_2$
H. KITAHARA-EBA, N. ISHIZAWA, F. MARUMO & Y. NODA
Phys. Rev. B.,**61**[5], 3310-3316 (2000).

23. Solid-Liquid Reaction between α-$Ca_3(PO_4)_2$ and $Ba(H_2PO_4)_2$(aq) and Formation of a New Compound, $BaHPO_4.CaHPO_4.H_2O$)
T. NIshino & N. Ishizawa
J. Ceram. Soc. Japan , **108** [6] 575-580 (2000)

24. Structural Study of $PbZn_{1/3}Nb_{2/3}O_3$ by Single Crystal X-ray Diffraction and

EXAFS
Yuta Matsushima, Nobuo Ishizawa, Naoki Wakiya, and Nobuyasu Mizutani
J. Ceram. Soc. Japan , **108** [7] 617-622 (2000)

25. Synchrotron X-ray and Molecular Dynamics Studies of $CaYAlO_4$ - The Role of Heterovalent Solutes in K_2NiF_4-Type Solid Solutions -
Y. Matsushima, N. Ishizawa & N. Kodama
Physica C **338** 166-169 (2000)

26. Synchrotron X-ray Imaging of the Charge Density in $La_{1.88}Sr_{0.12}CuO_4$ and Its Evaluation by Molecular Orbital Calculations
N. Ishizawa & M. Hayatsu
Physica C **338** 170-173, (2000)

27. Topotaxial conversion of chlorapatite and hydroxyapatite to fluorapatite by hydrothermal ion exchange
J. C. Rendon-Angeles, K. Yanagisawa, N. Ishizawa & S. Oishi
Chemistry of Materials **12**,[8] 2143-2150 (2000).

28. Charge Density Study of MnS_2 by Synchrotron X-ray Diffraction and DVXα method
S. Kuze & N. Ishizawa
Bulletin of the Society for Discrete Variational Xα, **13**[1], 46-50 (2000)

29. Effect of Metal Ions of Chlorapatites on the Topotaxial Replacement by hydroxyapatite under Hydrothermal Conditions
J. C. Rendon-Angeles, K. Yanagisawa, N. Ishizawa & S. Oishi
J. Solid State Chemistry, **154**, 569-578 (2000).

30. A Synchrotron X-ray Diffraction Analysis of Near-Stoichiometric $LiNbO_3$
Barbara Etschmann, Nobuo Ishizawa, Victor Streltsov, and Shuji Oishi
Zeitschrift für Kristallographie B, **216**[8],455-461 (2001)

31. A synchrotron X-ray Study of the Electron Density in $Er_3Al_5O_{12}$ and $Yb_3Al_5O_{12}$ Garnets
B. E. Etschmann, N. Ishizawa, V. A. Streltsov, and E. N. Maslen
Acta Crystallographica Section B, B57, 136-141 (2001)

32. A synchrotron XRD study of a small congruent $LiNbO_3$ crystal: a compatible approach to powder diffraction
B. E. Etschmann & N. Ishizawa
Powder Diffraction, **16**[2], 81-85 (2001)

33. Optical and structural studies on $BaMgF_4:Ce^{3+}$ crystals
N. Kodama, T. Hoshino, M. Yamaga, N. Ishizawa, K. Shimamura & T. Fukuda
J. Crystal Growth, **229**, 492-496 (2001).

34. Annular dynamical disorder of the rare earth ions in a $La_2Zr_2O_7$ pyrochlore via single crystal synchrotron X-ray diffraction
Y. Tabira, R. L. Withers, T. Yamada and N. Ishizawa
Zeitschrift für Kristallographie, **216**[02], 92-98 (2001).

35. Monoclinic superstructure of $SrMgF_4$ with perovskite-type slabs
N. Ishizawa, K. Suda, B. E. Etschmann, T. Oya & N. Kodama
Acta Cryst. C., **C57**, 784-786 (2001).

36. Growth of Strontium Chlorapatite Crystals from a Sodium Chloride Flux

Shuji Oishi, Mai Mitsuya, Takaomi Suzuki, Nobuo Ishizawa, J.C. Rendon Angeles & Kazumichi Yanagisawa
Bulletin of the Chemical Society of Japan, **74**[9] 1635-1639 (2001).

37. Synchrotron X-ray study of triclinic $LiCa_2Nb_3O_{10}$ with perovskite-type slabs
Nobuo Ishizawa, Reiko Yamashita, Shuji Oishi, James R. Hester and Shunji Kishimoto
Acta Cryst. **C57** 1006-1009 (2001).

38. Synchrotron X-ray study of orthorhombic $Rb_3Ta_5O_{14}$ with modified pyrochlore structure.
Douglas du Boulay, Reiko Yamashita & Nobuo Ishizawa,
Acta Cryst. **C58**, i40-i44 (2002).

39. An X-ray diffraction study of shock-wave densified SiO_2 glasses
Y. Shimada, M. Okuno, Y. Shono, M. Kikuchi, K. Fukuoka & N. Ishizawa
Physics and Chemistry of Minerals, **29**[4] 233-239 (2002).

40. Synthesis and powder diffraction analysis of tri-rubidium penta-tantalum oxide, Rb3Ta5O14, with novel three-dimensionally nanostructured Rb-bearing channels
Oono, M. Yashima, D. du Boulay, N. Ishizawa, A. Saiki, S. Oishi
Powder Diffraction, **18**[1], 2-6 (2003).

41. Complex Salts Derived from the Reactions of Organotin(IV) with 6-Methylpyridine-2-Carboxaldehyde Phenylhydrazone: X-Ray Crystal Structure of BIS[6-Methylpyridine- 2-Carboxaldehydehydrazodium]-Tetrachlorodimethylstannate(IV)
S. B. Teo, L. M. Yeow, G. Y. Yeap, N. Ishizawa, B. Eschmann and B. Skelton,
J. Coord. Chem.,**56**[3], 215-221 (2003).

42. Structural Disorder and Lithium Diffusion Pathway in Cubically-Stabilised Lithium Manganese Spinel. I. Synchrotron X-ray Studies
Nobuo Ishizawa, Douglas du Boulay, Masato Hayatsu, Satoru Kuze, Yuta Matsushima, Hiromasa Ikuta, Masataka Wakihara, Yasunori Tabira and James R. Hester
J. Solid State Chem. **174**[1] 167-174 (2003).

43. Structural Disorder Along the Lithium Diffusion Pathway in Cubically-Stabilised Lithium Manganese Spinel. II. Molecular Dynamics Calculation
Kenji Tateishi, Douglas du Boulay, Nobuo Ishizawa and Katsuyuki Kawamura
J. Solid State Chem. **174**[1] 175-181 (2003).

44. Reinvestigation of α-Li_3TaO_4
D. du Boulay, A. Sakaguchi, K. Suda & N. Ishizawa
Acta Cryst. **E59**, i80-i82 (2003).

45. Reinvestigation of the structure of $Cs_3Ta_5O_{14}$
D. du Boulay, A. Oono & N. Ishizawa
Acta Cryst. **E59**, i86-i88 (2003).