

List of Publications:**International Journal**

1. Nualpralaksana, S., Phanichphant, S., Hengst, M. and Heimann, R. B., Hydrothermal synthesis of lead zirconate titanate (PZT) and lead lanthanum zirconate titanate (PLZT) nanopowders. *Ceramic Forum International*, 2001, **78**, E34-E38.
2. Nualpralaksana, S., Heimann, R. B. and Phanichphant, S., Effect of sintering temperature on PZT ceramics synthesized from coprecipitation and hydrothermal process, submitted for publication in *J. Eur. Ceram. Soc.* during the 8th International Conference on Ceramic Processing Science, September 2-5, 2002, Hamburg, Germany.
3. Nualpralaksana, S., Heimann, R. B. and Phanichphant, S., Parameters controlled on phase and morphology in Hydrothermally synthesized PZT powders, submitted for publication in *Interceram*.

National Journal

1. Nualpralaksana, S., Heimann, R. B. and Phanichphant, S., SEM and XRD studies of lead zirconate titanate powders synthesized by hydrothermal process, *J. E. M. S. T.*, 2001, **15**, 129-130.
2. Nualpralaksana, S. and Phanichphant, S., SEM and XRD studies on PZT ceramics synthesized from coprecipitation and hydrothermal processes, *J. E. M. S. T.*, 2002, **16**, 142-143.

VITA

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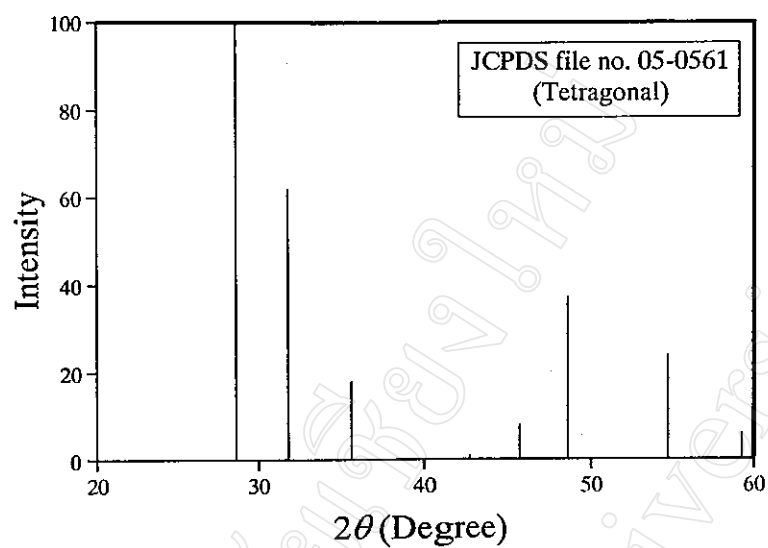
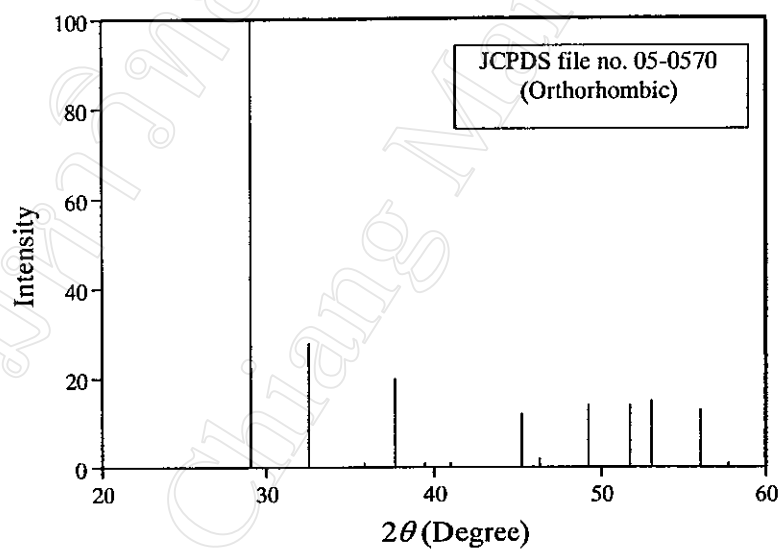


Figure A4 JCPDS file number 05-0561 of PbO which has a tetragonal phase



FigureA5 JCPDS file number 05-0570 of PbO which has a rhombohedral phase

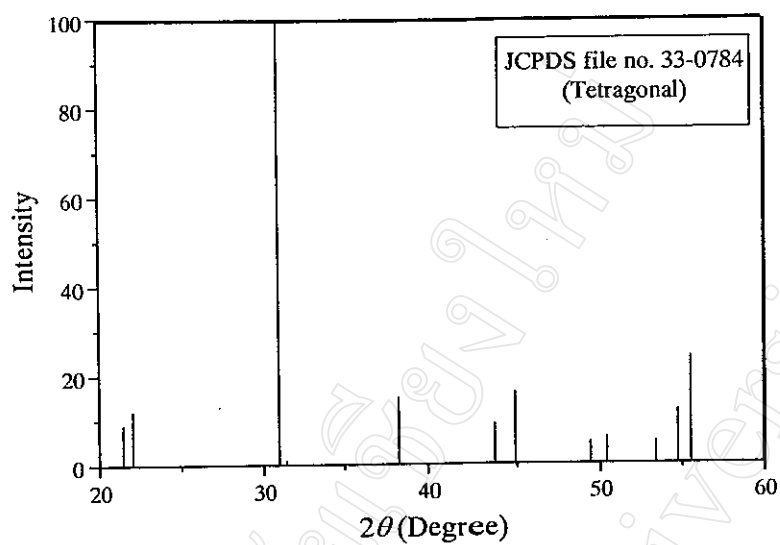


Figure A2 JCPDS file number 33-0784 of PZT powders which has a tetragonal phase

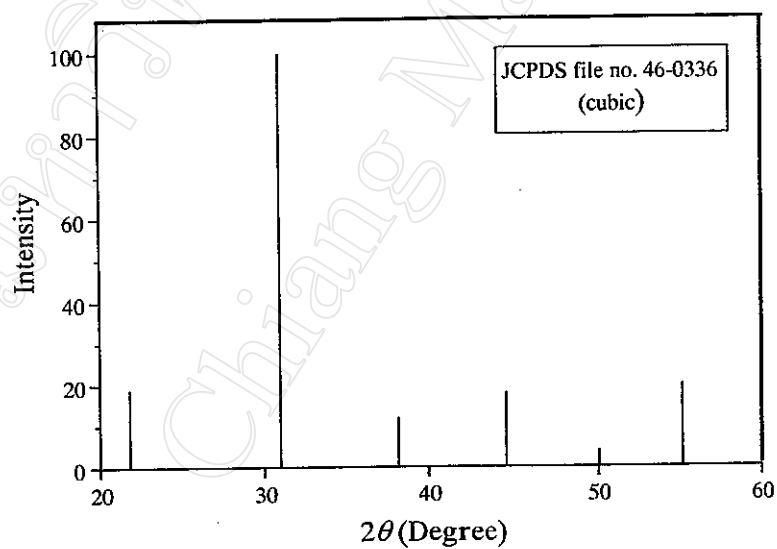


Figure A3 JCPDS file number 46-0336 of PLZT powders which has a cubic phase

APPENDIX A

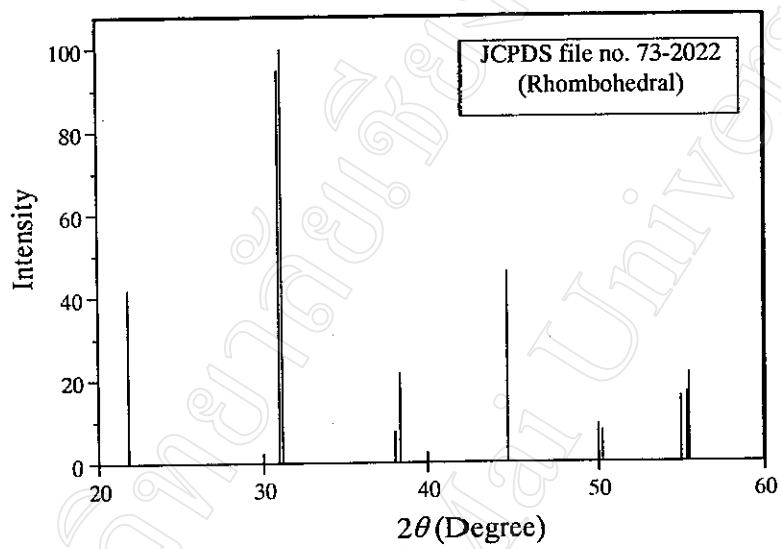


Figure A1 JCPDS file number 73-2022 of PZT powders which has rhombohedral phase

3. Nualpralaksana, S. and Phanichphant, S., Characterization of nitrate route synthesized lead zirconate titanate, $[\text{Pb}(\text{Zr}_{0.52}\text{Ti}_{0.48})\text{O}_3]$ powders and ceramics, submitted for publication in *Chiang Mai J. Sci.*

International Conferences

1. Nualpralaksana, S. and Phanichphant, S., SEM and XRD studies on PZT ceramics synthesized from coprecipitation and hydrothermal processes. Poster presentation, 3rd ASEAN Microscopy Conference and 19th Annual Conference of Electron Microscopy Society of Thailand, Chiang Mai. 30 January – 1 February 2002.
2. Nualpralaksana, S., Heimann, R. B. and Phanichphant, S., Effect of sintering temperature on PZT ceramics synthesized from coprecipitation and hydrothermal processes. Poster presentation, 8th ICCPS 2002 International Conference on Ceramic Processing Science, Hamburg, Germany. 2-5 September, 2002.

National Conferences

1. Nualpralaksana, S. and Phanichphant, S., Synthesis of lead titanate powders by sol-gel method. Poster presentation, 23rd Congress on Science and Technology of Thailand, Chiang Mai, 1997, 194-195.
2. Nualpralaksana, S. and Phanichphant, S., Characterization of lead zirconate titanate powders prepared from metal nitrate solutions. Poster presentation, 24th Congress on Science and Technology of Thailand, Bangkok, 1998, 134-135.
3. Nualpralaksana, S. and Phanichphant, S., Characterization of lead lanthanum zirconate titanate powders prepared from metal nitrate solutions. Poster

presentation, 25th Congress on Science and Technology of Thailand, Pitsanuloke, 1999, 268-269.

4. Nualpralaksana, S., Ananta, S. and Phanichphant, S., Preparation of lead zirconate titanate fine powders by hydrothermal method. Poster presentation, The First Thailand Materials Science and Technology Conference, Bangkok, 2000, 543-544.
5. Nualpralaksana, S., Ananta, S., Rujjanakul, G. and Phanichphant, S., Characterization of lead zirconate titanate fine powders synthesized by hydrothermal process. Poster presentation, 26th Congress on Science and Technology of Thailand, Bangkok, 2000, 120.
6. Nualpralaksana, S., Heimann, R. B. and Phanichphant, S., SEM and XRD studies of lead zirconate titanate powders synthesized by hydrothermal process, Poster presentation, 18th Annual Conference of Electron Microscopy Society of Thailand, Khon Khaen, 2002.
7. Nualpralaksana, S., Heimann, R. B. and Phanichphant, S., Hydrothermal synthesis of lead lanthanum zirconate titanate powders. Poster presentation, 27th Congress on Science and Technology of Thailand, Songkla, 2001, 136.