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- [1] Tokuyama, M. and Soga, J. (2001). Development of a Φ -shaped actuated suspension for 100-kTPI hard disk drives. *IEEE Transactions on Magnetics*, 37, 1884-1886.
- [2] Guo, L. and Martin, D. (1999). Dual-stage actuator control for high density disk drives. In *Proceedings International Conference on Advanced Intelligent Mechatronics*. United states: IEEE/ASME
- [3] Oboe R. and Murari, B. (2000). Modeling and control of dual-stage actuator hard disk drive with MEMS-based secondary actuator. In *Proceedings 6th International Workshop on Advanced Motion Control*. Italy: Dipartimento di elettronica e informatica, Padova University.
- [4] Samba, T., Hirano, T., Hong, J. and Fan, L. S. (1999). Dual-stage servo controller for HDD using MEMS microactuator. *IEEE Transactions on Magnetics*, 25, 2271-2273.
- [5] Sun, J. and Zhong, Z. W. (2002). Finite element analysis of a IBM suspension integrated with a PZT micro actuator. *Sensors and Actuators A*, 100, 257-263,
- [6] Niu, Y. M., Guo, W.G., Guo, X., Ong, E. H., Sivadasan, K. K. and Huang, T. (2000). A PZT micro-actuated suspension for high TPI hard disk sero systems," *IEEE Transactions on Magnetics*, 36, 2241-2243.
- [7] Zhao, S., Li, Q., Feng, Y. and Nan, C.(2009). Microstructure and dielectric properties of PMN-PT ceramics prepared by molten salts method. *Journal of Physics and Chemistry of Solids*, 70, 639-644.
- [8] Gupta, S. M., Pandit, P., Patro, P., R Kulkarni, A. and Wadhawan, V. K. (2005). A comparative dielectric relaxation study of PMN-PT and PMN-PZ ceramics using impedance spectroscopy. *Materials Science and Engineering B*, 120, 194-198
- [9] Xia, Z. and Li, Q. (2007). Phase transformation in $(0.90 - x)\text{Pb}(\text{Mg}_{1/3}\text{Nb}_{2/3})\text{O}_3 - x\text{PbTiO}_3 - 0.10\text{PbZrO}_3$ piezoelectricceramic: X-ray diffraction and Raman investigation. *Solid State Communications*, 142, 323-328.

- [10] Zeng, T., Dong, X., Mao, C., Chen, S. and Chen, H. (2006) Preparation and properties of porous PMN–PZT ceramics doped with strontium. **Materials Science and Engineering B**, 135 , 50–54.
- [11] Moetakef, P. and Nemati, Z. A. (2009). Study of microstructure and dielectric properties of PMN–PZT ceramics via a mixed powder method including sol–gel precursor. **Journal of Alloys and Compounds**, 476, 791–796.
- [12] Ghasemifard, M., S.M.Hosseini, Bagheri-Mohagheghi, M.M. and Shahtahmasbi, N. (2009). Structure comparison of PMN–PT and PMN–PZT nano crystals prepared by gel-combustion method at optimized temperatures. **Physical E**, 41, 1701–1706.
- [13] Ghasemifard, M., Hosseini, S.M. and Khorrami, Gh.H. (2009). Synthesis and structure of PMN–PT ceramic nano powderfree from pyrochlore phase. **Ceramics International**, 35 , 2899–2905.
- [14] Wang, L., Li, Q., Xia, Z. and Yan, W. (2009). Compositional dependence of structural and electrical properties in (1-x)[PMN–PT(65/35)]–xPZ solid solutions. **Journal of Materials Science**, 44, 244–249.
- [15] Hall, A., Allahverdi, M., Akdogan, E.K. and Safari, A. (2005). Piezoelectric/electrostrictive multimaterial PMN-PT monomorph actuators. **Journal of the European Ceramic Society**, 25, 2991–2997.
- [16] Yamada, H. (1999). Pressureless Sintering of PMN-PT Ceramics. **Journal of the European Ceramic Society**, 19 ,1053-1056
- [17] Kusumoto, K. and Sekiya, T. (1998). Processing and properties of (1-x)Pb(Mg_{1/3}Nb_{2/3})O₃-xPbTiO₃ solid solutions from PbO-and MgO-excess compositions. **Materials Research Bulletin**, 33(9), 1367–1375.
- [18] Lejeune, M. and Boilot, J.P. (1986). Optimization of dielectric properties of lead magnesium niobate ceramics. **American Ceramic Society Bulletin**, 65 (4), 679–682.
- [19] Bongkarn, T. and Wicheanrat, C. (2008). Preparation of Barium strontium Ceramics via Combustion Method. **Advanced Materials Research**, 55-57, 185-188.



- [20] Bongkarn, T. and Wattanawikkam, C. (2009). The Influence of Calcination Temperature on Phase and Morphology of $\text{Ba}(\text{Sn}_{0.05}\text{Ti}_{0.95})\text{O}_3$ Powders Synthesized via Solid State Reaction Method and Combustion Technique. **Ferroelectrics**, 382, 142-48.
- [21] Bongkarn, T. and Watanawikkan, C. (2008). Fabrication of Barium stannate Titanate Ceramics via Combustion Method. **Advanced Materials Research**, 55, 173-176.
- [22] Bongkarn, T. and Tangkawsakul, W. (2009). Low temperature preparation of antiferroelectric PZ and PBZ powder Using the Combustion technique. **Ferroelectrics**, 383, 50-56.
- [23] Laowanidwatana, A., Tangkawsakul, W. and Bongkarn, T. (2010). Fabrication of $(\text{Pb}_{1-x}\text{Ba}_x)\text{ZrO}_3$ Ceramics via the Combustion Technique, **Ferroelectrics**, 403, 196-203.
- [24] Bongkarn, T. and Panya, P. (2009). Fabrication of perovskite Barium Titanate Ceramics using the Combustion route. **Ferroelectrics**, 383, 102-110.
- [25] Bongkarn, T. and Thongtha, A. (2008). Effect of calcination Temperatures on phase and morphology evolution of $(\text{Ba}_{0.25}\text{Sr}_{0.75})(\text{Zr}_{0.75}\text{Ti}_{0.25})\text{O}_3$ powder synthesized via solid state reaction and combustion Technique. **Advanced Materials Research**, 55-57, 197-200.
- [26] Bongkarn, T. and Thongtha, A. (2009). Phase formation and microstructure of Barium Zirconate ceramics using prepared the combustion technique. **Ferroelectrics**, 383, 33-39.
- [27] Phungjitt, N., Panya, P., Vittayakorn, N. and Bongkarn, T. (2009). The Structural Phase and Microstructure of Perovskite $\text{Ba}(\text{Ti}_{1-x}\text{Zr}_x)\text{O}_3$ Ceramics Using the Combustion Route. **Functional Materials Letters**, 2(4), 169-174.
- [28] Phungjitt, N., Panya, P., Vittayakorn, P. N. and Bongkarn, T. (2010). Use of the Combustion Technique for the Preparation of $\text{Ba}(\text{Ti}_{0.70}\text{Zr}_{0.30})\text{O}_3$ Ceramics. **Ferroelectrics**, 403, 142-149

- [29] Thongtha, A. and Bongkarn, T. (2010). Fabrication and Characterization of Perovskite SrZrO_3 Ceramics through a Combustion Technique. *Key Engineering Materials*, 421, 223-226.
- [30] Thongtha A. and Bongkarn, T. (2010). Effect of Firing Temperatures on Phase and Morphology Evolution of CaZrO_3 Ceramics Synthesized using the Combustion Technique. *Ferroelectrics*, 430, 3-10.
- [31] Jaffe, B., Cook, W.R. and Jaffe, H. (1971). *Piezoelectric Ceramics*. London: Academic Press.
- [32] Comyn, T. (1998). The role of employers in the development of employability skills in novice workers. Doctoral dissertation, Ph.D., University of Leeds, U. K.
- [33] Haertling, G.H. (1999). Ferroelectric ceramics: History and technology. *Journal of the American Ceramic Society*, 82, 797-818.
- [34] Herbert, J.M. (1985). *Ceramics Dielectric and Capacitors*. London: Gordon and Breach Science publishers.
- [35] สุกานดา เจียรศิริสมบุญ. (1992). กระบวนการประดิษฐ์สำหรับเซรามิกขั้นสูง. ใน เอกสารการประกอบการสอนรายวิชา ว. วศ. 210443. เชียงใหม่: ภาควิชาฟิสิกส์ คณะวิทยาศาสตร์ มหาวิทยาลัยเชียงใหม่.
- [36] Reed, J.S. (1996). *Introduction to the principles of ceramic processing*, New York: Wiley.
- [37] Hart, L.D. and Hudson, L.K. (1994). *American Ceramic Society Bulletin*, 43, 13-15.
- [38] Patil, K.C., Aruna, S.T. and Mirmani, T. (2002). Combustion synthesis: an update. *Current Opinion in Solid State and Materials Science*, 6, 507-512.
- [39] Merzhanov, A.G. and Borovinskaya, I.P. (1985). *Combustion Science and Technology*, 43, 127,165.
- [40] Merzhanov, A.G. (1990). *Combustion and Plasma Synthesis of High Temperature Materials*, New York: VCH Publication.
- [41] Wiley, J. (1986). *Thermal analysis*. Canada: Simultaneously.

- [42] สุรินทร์ ลิ้มปนาท และศรีไฉน ขุนทน. (2543). เครื่องเอกซ์เรย์ดิฟแฟรกชัน. ใน **เครื่องมือวิจัยทางวัสดุ: ทฤษฎีและการทำงานเบื้องต้น**. (หน้า 309-322). กรุงเทพฯ: สำนักพิมพ์แห่งจุฬาลงกรณ์มหาวิทยาลัย.
- [43] กฤษณ ศิวเลิศกมล (2545). กล้องจุลทรรศน์อิเล็กตรอนแบบส่องกราดและอุปกรณ์วิเคราะห์ธาตุรังสีเอกซ์, ใน **เครื่องมือวิจัยทางวัสดุ: ทฤษฎีและการทำงานเบื้องต้น**. (หน้า 289-305). กรุงเทพฯ: สำนักพิมพ์แห่งจุฬาลงกรณ์มหาวิทยาลัย.
- [44] ปราณี รัตนวลิตโรจน์. (2543). การหาความหนาแน่นด้วยเครื่องชั่งไฟฟ้า, ใน **เครื่องมือวิจัยทางวัสดุ: ทฤษฎีและการทำงานเบื้องต้น**. (หน้า 158-166) กรุงเทพฯ: สำนักพิมพ์แห่งจุฬาลงกรณ์มหาวิทยาลัย.
- [45] Swart, S. L. and Shrout, T. R. (1982). Fabrication of perovskite lead magnesium niobate. *Material Research Bulletin*, 17, 1245-1250.
- [46] Han, K. R. and Kim, S. (2000). New preparation method of low temperature sinterable $\text{Pb}(\text{Mg}_{1/3}\text{Nb}_{2/3})\text{O}_3$ powder and its dielectric properties. *Journal of Materials Science*, 35, 2055 – 2059.
- [47] Li, J. B., Rao, G., Liu, G. and Chen, J. (2006). Structural transition in unpoled (1-x)PMN-xPT ceramics near the morphotropic boundary. *Journal of Alloys and Compounds*, 425, 373–378.
- [48] Jayasingh, E. M., Prabhakaran, K., Sooraj, R., Durgaprasad, C. and Sharma, S.C. (2009). Synthesis of pyrochlore free PMN-PT powder by partial oxalate process route. *Ceramics International*, 35, 591–596.
- [49] Yimniruna, R., Anantaa, S. and Laoratanakul, P. (2005). Dielectric and ferroelectric properties of lead magnesium niobate–lead zirconate titanate ceramics prepared by mixed-oxide method. *Journal of the European Ceramic Society*, 25, 3235–3242
- [50] Choi, S. W., Shrout, T. R., Jang, S. J. and Bhalla, A. S. (1989). Dielectric and pyroelectric properties in the $\text{Pb}(\text{Mg}_{1/3}\text{Nb}_{2/3})\text{O}_3$ – PbTiO_3 system. *Ferroelectrics*, 100, 29–38 .
- [51] Moulson, A. J. and Herbert, J. M. (1990). *Electroceramics*. The university Press, Cambridge.

- [52] Takeuchi, H., Masuzawa, H., Nakaya, C. and Ito, Y. (1990). Relaxor Ferroelectric Transducers. In **Proceedings International Ultrasonics Symposium**, (pp. 697–705). United states: IEEE.
- [53] Bossler, F., Escure, P. and Lejeune, M. (1993). Dielectric and piezoelectric properties of $\text{PbMg}_{1/3}\text{Nb}_{2/3}\text{O}_3$ – PbTiO_3 – $\text{PbZn}_{1/3}\text{Nb}_{2/3}\text{O}_3$ ceramics. **Ferroelectrics**, 138,103–120.
- [54] wongmaneerung, R., Yimnirun, R. and Ananta, S. (2009). Sythesis and electrical properties of $\text{Pb}(\text{Mg}_{1/3}\text{Nb}_{2/3})\text{O}_3$ – PbTiO_3 ceramics. **Current Applied Physics**, 9, 268-273.
- [55] Alberta, E. F. and Bhalla, A. S. (2002). Low-temperature property investigation of the lead indium-niobate-lead nickel-niobate solid solution. **Journal of Physics and Chemistry of Solids**. 63,1759–1769.
- [55] Singh, G. and Tiwari, V.S. (2010) Anomaly in dielectric and piezoelectric properties of $(1-x)\text{Pb}(\text{Mg}_{1/3}\text{Nb}_{2/3})\text{O}_3$ – $x\text{PbZrO}_3$. **Solid State Communications**, 150, 1778-1781.
- [56] Yimniruna, R., Anantaa, S. and Laoratanakul, P. (2004). Effects of $\text{Pb}(\text{Mg}_{1/3}\text{Nb}_{2/3})\text{O}_3$ mixed-oxide modification on dielectric properties of $\text{Pb}(\text{Zr}_{0.52}\text{Ti}_{0.48})\text{O}_3$ ceramics. **Materials Science & Engineering B**, 112, 79–86.
- [57] Moetakef, P. and Nemati, Z. A. (2008). Synthesis of pyrochlore free PMN–PZT ceramics via a seeding method precursor. **Sensors and Actuators A**, 141, 463–470.

ประวัติผู้วิจัย



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ชื่อ - ชื่อสกุล

จิตรกร กรพรม

วัน เดือน ปี เกิด

12 พฤศจิกายน 2530

ที่อยู่ปัจจุบัน

68 หมู่ 4 ตำบลทุ่งน้อย อำเภอโพทะเล จังหวัดพิจิตร 66130

ประวัติการศึกษา

พ.ศ. 2553

วท.บ. (ฟิสิกส์ประยุกต์) มหาวิทยาลัยนเรศวร

ผลงานตีพิมพ์

Kronphom, C., Ramaneepikool, S. and Bongkarn, T. (2011). Effect of firing temperatures on phase formation, microstructure and dielectric properties of PMN-PT ceramics prepared via combustion technique. In Proceedings The 4th International Data Storage Conference. Bangkok: I/UCRC in HDD Component.

