

## REFERENCES

- Wang, Y.D., Ma, C.L., Wu, X.H., Sun, X.D., Li, H.D. (2002) Electrical and gas sensing properties of mesostructured tin oxide-based H<sub>2</sub> sensor. Sensors and Actuators, B85, 270-276.
- Phonthammachai, N., et al. (2003) Structural and rheological aspect of mesoporous nanocrystalline TiO<sub>2</sub> synthesized via sol-gel process. Microporous and Mesoporous Materials, 66, 261-271.
- Zhang, J., Gao, L. (2004) Synthesis and characterization of nanocrystalline tin oxide by sol-gel method. Journal of Solid State Chemistry, 177, 1425-1430.
- Santos, L.R.B., et al. (2004) Tin oxide nanoparticles formation using a surface modifying agent. Journal of the European Ceramic Society.
- Ksapabutr B., Gulari E., Wongkasemjit S. (2004) One-pot synthesis and characterization of novel sodium tris(glycozirconate) and cerium glycolate precursors and their prolysis. Materials Chemistry and Physics, 83, 34-42.
- Jiang X., Wang Y., Herricks T., Xia Y. (2004) Ethylene glycol-mediated synthesis of metal oxide nanowires. Journal of Material Chemistry, 14, 695-703
- Verdenelli M., Parola S., Hubert-Pfalzgraf L. G., and Lecocq S. (2000) Tin dioxide tin film from Sn(IV) modified alkoxide synthesis and structural characterization of Sn(OEt)<sub>2</sub>(η<sup>2</sup>-acac)<sub>2</sub> and Sn<sub>4</sub>(μ<sub>3</sub>-O)<sub>2</sub>(μ<sub>2</sub>-OEt)<sub>6</sub>(η<sup>2</sup>-acac)<sub>2</sub>. Polyhedron, 19, 2069-2075.

## APPENDIX

**Table 1** FTIR assignment of tin glycolate

<b>Peak positions (cm<sup>-1</sup>)</b>	<b>Assignments</b>
3400-3300	O-H stretching (from ethylene glycol)
2930-2830	C-H Stretching
1077	C-O stretching
900-880	C-O-Sn stretching
600-550	Sn-O stretching

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1. Junin, C., Krissanasaeranee, M., Wongkasemjit, S. and Alexander M. Jamieson.  
(2004, December 1-3) Synthesis of High Surface Area Tin Oxide via Sol-gel  
Process Using Tin Glycolate Precursor. Proceedings of the Smart Materials  
Internatonal Conference 2004, Department of Chemistry, Faculty of Science,  
Chiang Mai University, Thailand.

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1. Junin, C., Krissanasaeranee, M., Wongkasemjit, S. and Alexander M. Jamieson.  
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Process Using Tin Glycolate Precursor.