



Title:

Hydrothermal Reactions for Synthesis/Preparation of Nano-Materials with Desired Shapes, Sizes and Structures for Oxides and Carbons

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2014/9/17 (Wed.) PM 15:00-17:00

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綜合大樓 48418 室

About the speaker:

Education:

- 1961.4-1965.3: Tokyo Institute of Technology, Applied Chemistry Division
- 1965.4-1967.3: Tokyo Institute of Technology (Master course), M. Sc. in Eng.
- 1967.4-1970.3: Tokyo Institute of Technology (Doctor course), D. Sc. in Eng.

Main Research Subjects: Underlined terms are Proposed & Defined by Yoshimura M.

- 01) Soft Processing(or Soft Solution Processing) for Ceramic Materials: Nano-Particles, Whiskers, Films, Patterns and Bulks.
- 02) Polymer Complex Methods for Multiple Component Oxides with Precise Composition.
- 03) Hydrothermal/Solvothermal Processing for Inorganic Materials.
- 04) Hydrothermal Carbons.
- 05) Growing Integration Layer[GIL] Methods for Coating/Joining/Bonding of Ceramics on Metallic Materials.
- 06) Phase Stability and Meta-Stability of Zirconia and Related Compounds.
- 07) Synthesis and Phase/Valence Stability of Perovskite Phases.
- 08) Nano-Composites Ceramics via Melt/Annealing of Eutectic Melts.
- 09) Bio-Inspired Processing for Inorganic Materials for Sustainable Societies.
- 10) Bio-Materials, Bio-Nanomaterials: Fabrication and Evaluation, HAP Whisker.
- 11) Nano-Carbons, Graphenes by Soft Processing(Electrochemistry & Submerged Liquid Plasma).

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