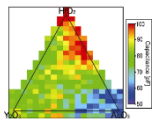
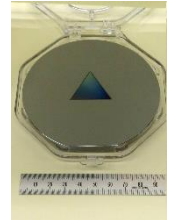


# Find out optimum composition!

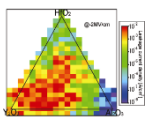
## Fabrication and Evaluation of High Throughput Combinatorial Technology Films for Acceleration of Materials Development

### Fabrication of Combinatorial Composition Spread Films

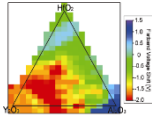
We provide any single compositive blanket film, binary and ternary composition spread films fabricated by sputtering deposition and PLD (Pulsed Laser Deposition).



Dielectric property



Leakage current



Flat band shift

### Combinatorial Characterizations

- Composition analysis (XRF with micro-beam)
- Crystalline evaluation (XRD with micro-beam)
- Electrical evaluation (I-V, C-V, semiconductor parameters)

The optimum composition for a desired functionality can be determined in a short period of time by evaluating all compositions in the one sample.

### Sales of Combinatorial Magnetron Sputtering System

- Multiple sources (up to 6,  $\phi 2''$  size)
- Metal, Oxide, Nitride, etc.
- Automatic process following deposition recipe



### Please contact us!!

In functional materials development, if you want to

- find out optimum composition in a short period of time
- accumulate data of properties due to composition changes
- avoid contaminations by source materials in your system

Find out optimum condition accurately and quickly!

*Our experienced staff support your materials development*

COMET Inc.

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