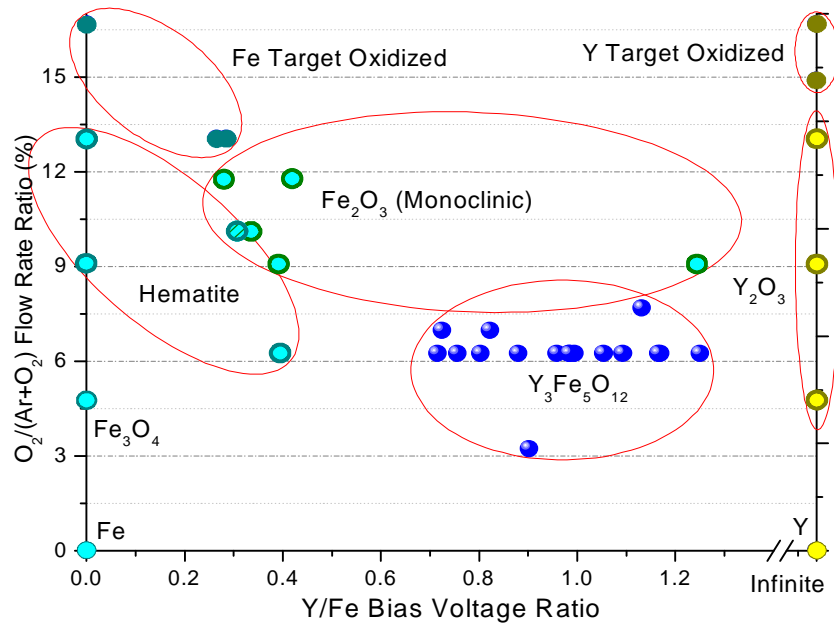


Magneto-optical Garnets by Semiconductor-Friendly Processing

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I Integration of optical isolator

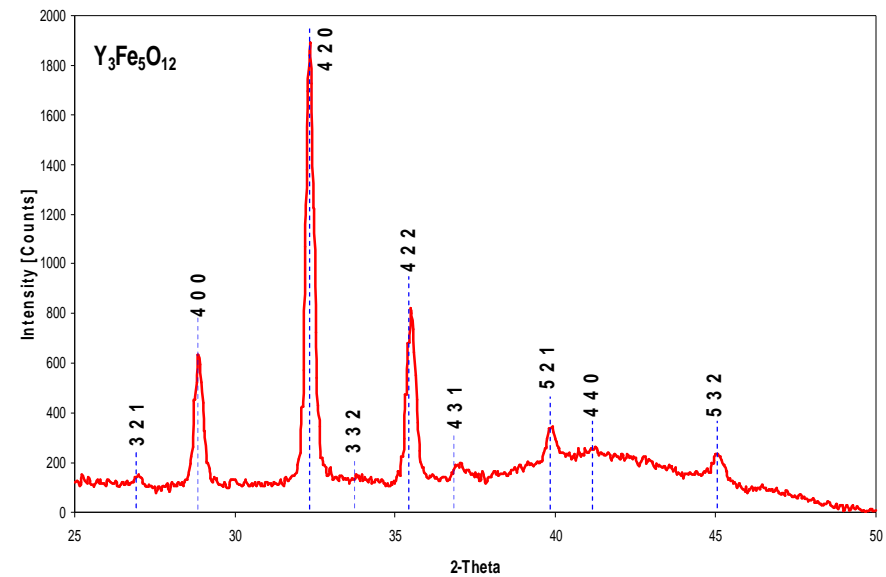
- u Compact size
- u Optical packing with laser diode
- u Integrated photonic circuits



A wide processing window was identified for YIG grown on MgO with excellent optical quality.

I Requirements for fabrication process

- u Require low thermal process
- u Substrate material that can be deposited onto semiconductor platform



X-ray diffraction pattern of garnet film which was fabricated with multi-target RF sputter system.

I Publications

- u S. Sung, X. Qi and B. Stadler, *APL*, vol. 87, 121111, 2005.