



Custom Built Hollow Cathode Plasma Sources



Meaglow Ltd offers for sale custom built hollow cathode plasma sources for semiconductor and other applications. Hollow cathode sources offer the following advantages:

- Low oxygen contamination
- ALD system conversions
- Experience with LP-MOCVD conversion
- Scalable to large areas (more holes = greater area)
- No dielectric windows (which can act as sources of contamination)
- High electron density – similar to inductively coupled and microwave plasma sources
- Wide range of operating pressures (eg. from <100 mTorr to >100 Torr).
- RF or DC operation, oxygen, nitrogen, ammonia, hydrogen, nitrous oxide, argon

Related Papers:

- K. S. A. Butcher, B. W. Kemp, I. B. Hristov, P. Terziyska, P. W. Binsted and D. Alexandrov, Japanese Journal of Applied Physics **51** (2012) 01AF02.
- C. Ozgit-Akgun, E. Goldenberg, A. Kemal Okyay and N. Biyikili, Journal of Materials Chemistry C **2** (2014) 2123.

For more information on Meaglow Ltd or its hollow cathode plasma sources, visit our website www.meaglow.com or contact us at info@meaglow.com.

Meaglow Ltd manufactures and sells crystal growth research reactors and supplies thin films to semiconductor research institutes and industry.