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MicroStar-H: A New High Intensity Source for the Home Laboratory. Cary B. Bauer, Matthew M. Benning, Bruker AXS Inc, Madison, WI 53705 USA, Rob Hooft, Leon Seijbel, Arjen Storm, Bruker AXS BV, Delft, Netherlands, Carsten Michaelsen, INCOATEC GmbH, Geesthacht, Germany.

In recent years there has been a remarkable increase in brightness and flux density available in home laboratory sources. This can be attributed to great advances in X-ray optics and the introduction of micro-focus rotating anode generators. Bruker AXS has recently introduced the MicroStar-H, a home laboratory solution that combines the current state-of-the-art technology in both rotating anode generators and X-ray optics. The MicroStar-H anode design allows higher source brightness than conventional rotating anodes. In addition, a new high-gain optic, the Helios, has been specially designed to compliment the characteristics of the MicroStar. The result is a home laboratory source with intensity that rivals the most powerful rotating anodes previously available but at a fraction of the cost of ownership. This presentation will focus on the technical specifications of the MicroStar-H as well as highlighting new crystallographic results obtained using this system.