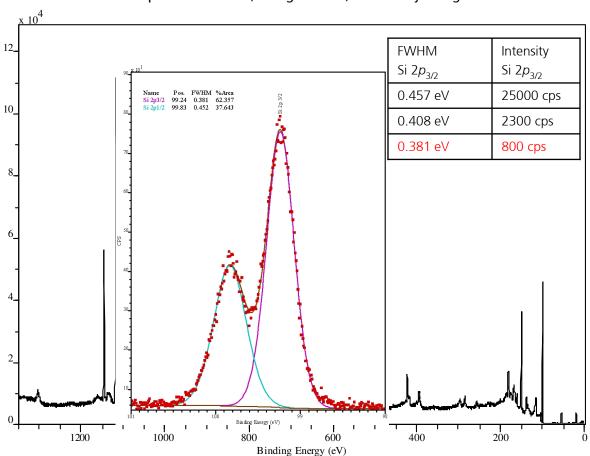
Monochromated XPS of Silicon (111)

Application Notes

The high resolution capability of the PHOIBOS 150 MCD-9 analyzer and the FOCUS 500 monochromator was demonstrated by XPS measurements on GaSe terminated Silicon (111). The spin orbit splitting of the Si 2p states (binding energies 99.24 eV and 99.83 eV) is clearly resolved, with a FWHM down to 0.38 eV for the Si $2p_{3/2}$ component. For peak fitting Gaussian/Lorentzian product formula (mixing m = 0.3) and Shirley background were used.



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Data by courtesy of C. Pettenkofer and S. Andres (HMI Berlin, Germany), B. Jaeckl (TU Darmstadt, Germany)

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