

Supporting Information

Modification of the p-GaP(100) surface with sulfide treatment

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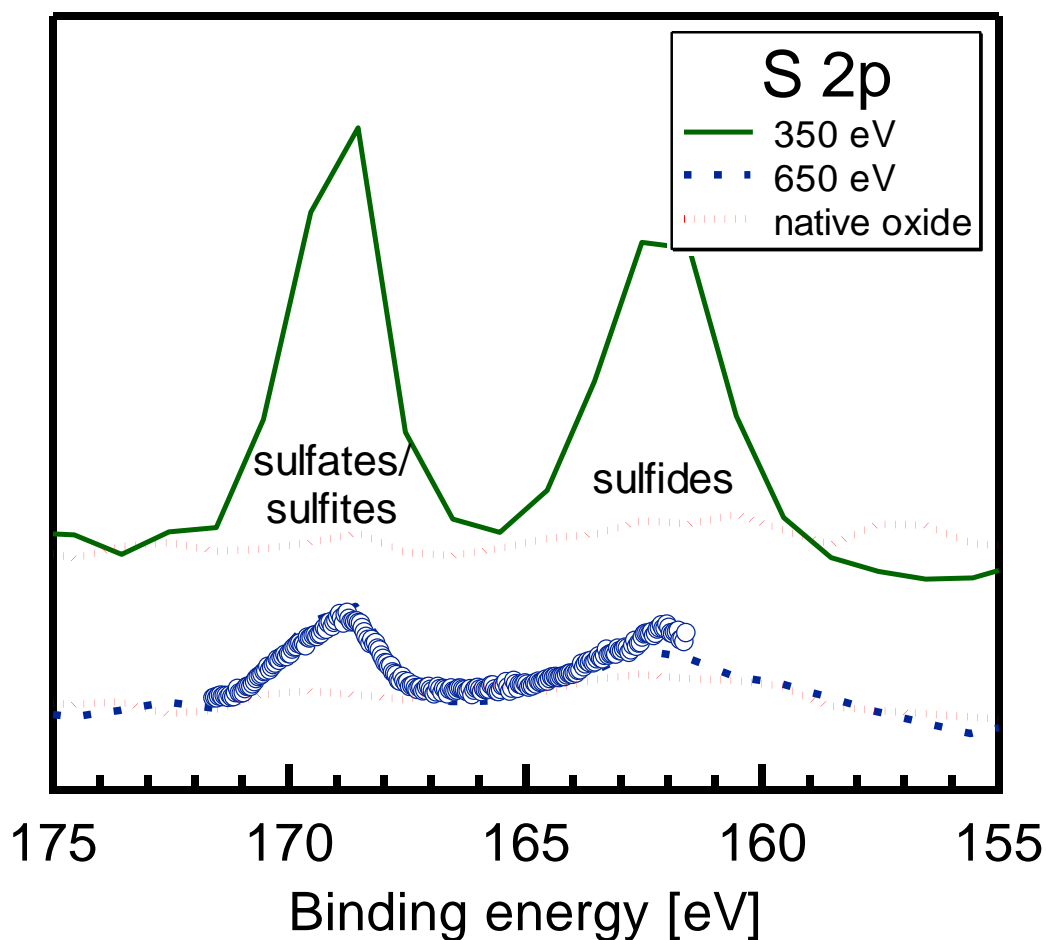


Figure S1. Portions of survey spectra containing the S 2p core level measured with different excitation energies on the p-GaP(100) surface treated with the solution of ammonium sulfide in 2-propanol. Red dot lines indicate corresponding part of the survey spectra measured on the initial native oxide covered p-GaP(100) surface prior to treatment with the sulfide solution.

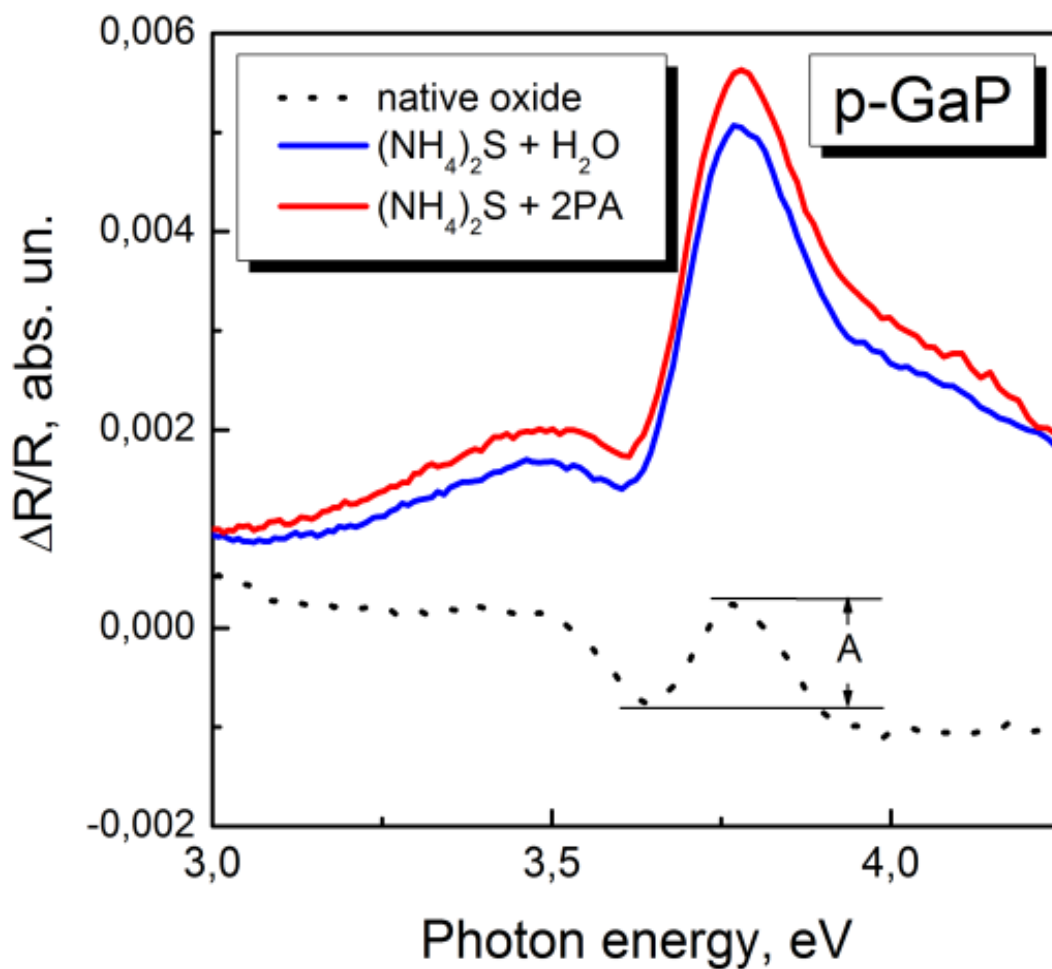


Figure S2. RA spectra of the native-oxide-covered p-GaP(001) surface measured before and after treatment with the aqueous solution of ammonium sulfide $[(\text{NH}_4)_2\text{S} + \text{H}_2\text{O}]$, or with the solution of ammonium sulfide in 2-propanol $[(\text{NH}_4)_2\text{S} + 2\text{PA}]$.