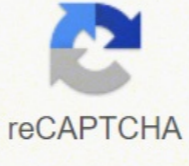




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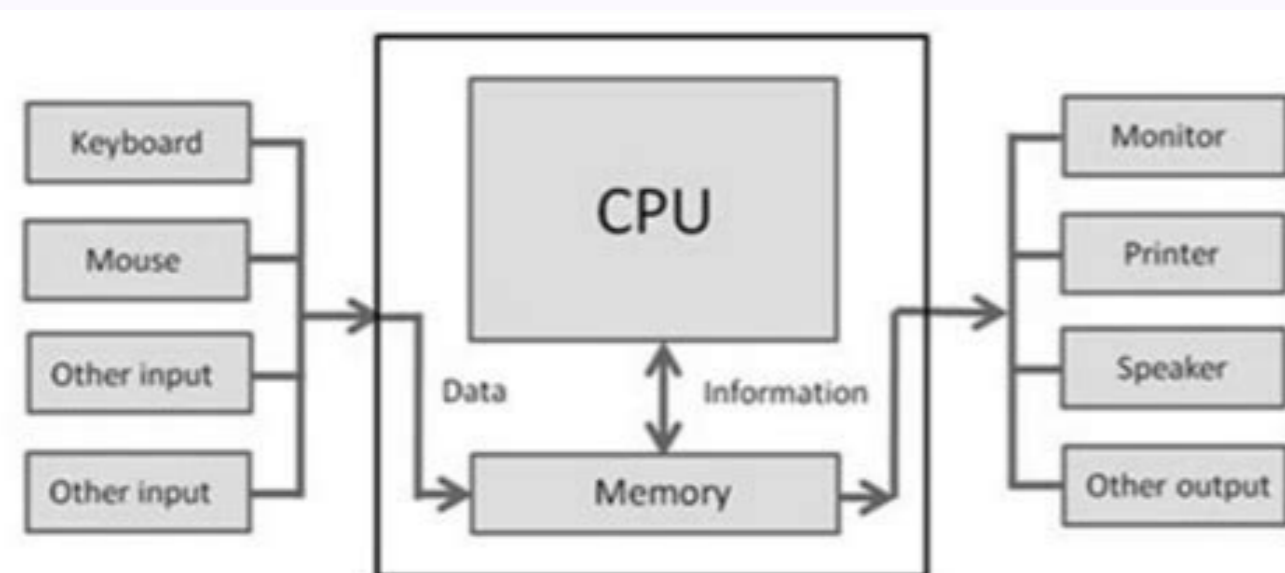
Quantitative Organic and Light Element analysis of Comet**81P/Wild 2 particles using C-, N-, and O- μ -XANES**

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Abstract Synchrotron based soft X-ray micro-analysis was performed on particles extracted from the Stardust aerogel collector in order to obtain detailed organic functional group information on any organic solids captured as part of the Principal Examination suite of analyses for samples from Comet 81P/Wild 2. It is observed that cometary organic carbon captured in aerogel is present in a number of different manifestations and often intimately associated with silicates. Carbon X-ray Absorption Near Edge Structure (XANES) spectra reveal considerable chemical complexity in all of the organic particles



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