



# Erratum to: Simulating the atomic and molecular content of molecular clouds using probability distributions of physical parameters

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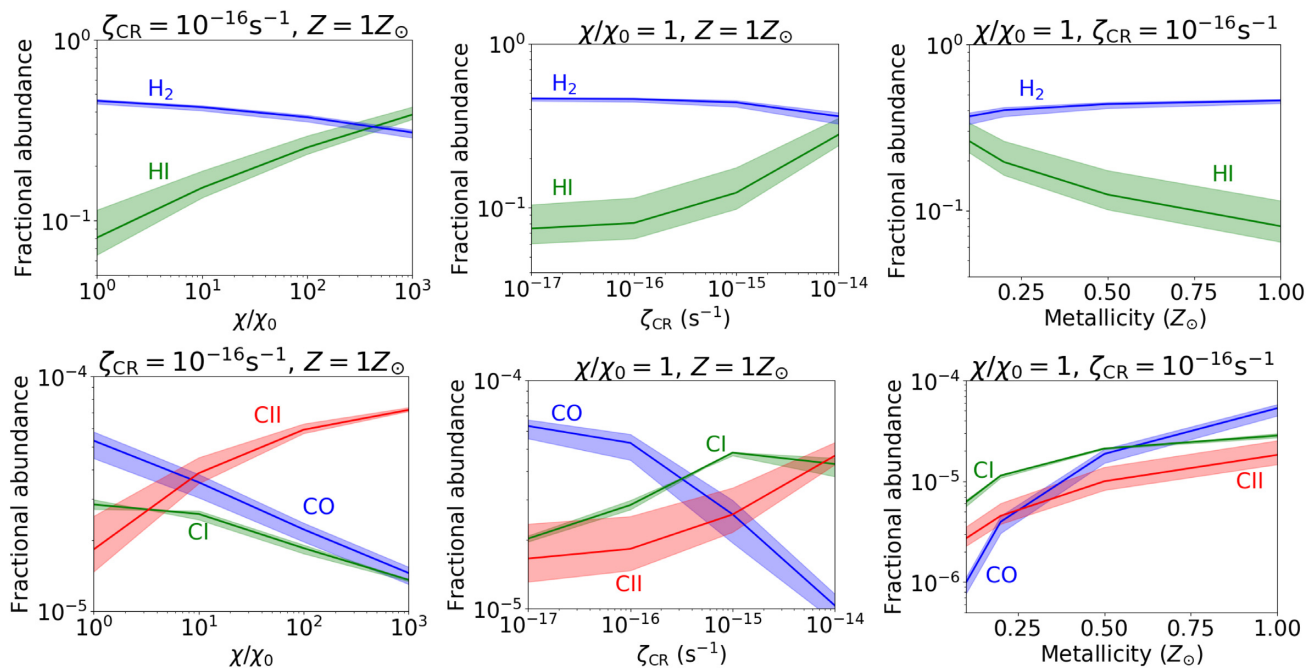
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**Key words:** errata – astrochemistry – methods: statistical – ISM: abundances – photodissociation region (PDR).

This is a correction notice for article stz405. The publisher regrets to inform that in Figure 7 the bottom right grid was inserted as a duplicate, thus excluding the appropriate data. The correct grid has now been published into the original article. The publisher apologises for this error.



**Figure 7.** Same as Fig. 6 but now for the Case-2  $A_V$ -PDF representing a denser molecular cloud. The cloud remains almost always molecular (i.e.  $\text{H}_2$  dominates), however the carbon phase is more strongly dependent on the environmental conditions specified by the FUV intensity, the cosmic ray ionization rate and the metallicity. This implies that existing methods of tracing  $\text{H}_2$ -rich gas may require adjustments depending on environment.

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