

On the basis of your reading of the relevant literature, indicate whether the following statements are true or false and briefly document/justify your selection.

F From Figure 10 in Tillman's paper (2000), and its discussion, it is obvious why there are only three points for values of the x-axis below 0.8, and therefore the explanation of the NOx emissions trend is quite convincing.

No!

Note that Fig. 10 is mentioned/discussed in the "Conclusions..." section!?

- Why should fuel volatility affect NOx emissions? (⇒ "early ignition and the ability to cause internal staging...")

evidence? Ref? ⇒ speculation! ⇒ NOT obvious! NOT Convincing!

T There is a simple explanation why Tillman (2000) did not include NOx in the concluding statement regarding "successes in reducing ... emissions".

Yes!

⇒ Fig 10 discusses this!
(and Fig 11)

Both in the "Conclusions..." section!
(unusually!)

T Zuser and Rechberger (2011) provide a convincing argument regarding the importance of silver (and its resource availability?) for the future of photovoltaics technology.

~ Yes!

Yes!

"...C-Si technology currently uses silver for the contact grid ... at least 30% of known reserves are necessary ..."

Ref? Data?

T Appendix A is sufficiently important for the main message of the paper by Zuser and Rechberger (2011) and therefore requires an understanding of its efficiency formula, which the authors do discuss and explain.

not mentioned in text! (why?) ⇒ summary of efficiencies

Yes! } trivial!

→ As eff ↑, need less resources!

$$\eta = \frac{P_{max}}{A_H \cdot STC} = \frac{W}{\frac{W}{\eta^2}} \quad (OK)$$