Review of: "Dark Energy as an intrinsic property of Matter"

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Potential competing interests: No potential competing interests to declare.

The manuscript interpretes dark energy as an “Space Production Model” which can be realized assuming a particular equation of state for matter and energy in the context of General Relativity theory using a Friedmann model. The model assumes a universe with no acceleration, that in turn implies an expansion history (see figure 1) very different from the LCDM model’s. This latter fact is in contradiction with current cosmological evolution constraints from different cosmological probes, such as those of Supernovae type Ia and BAO probes. Also the scalar field evolution does not accommodate to observations. In order to pass from a qualitative to quantitative model, I recommend the author to test his model with real, e.g. Superonvae data to end proposing a viable model for the universe's expansion.

A minor point is that a “stationary scale factor” would imply H=0.