A group of Scientists say they might have found a way to detect if Alien Life exists in the faraway Planets. First, however, they’ll have to find out if Extraterrestrials Pollute as much as the Inhabitants of Earth.

The crux of the paper published in the latest edition of the Astrophysical Journal Letters relies on the theory that, should Alien exist, then perhaps they could be discovered here on Earth using High-Tech Telescope able to monitor space for certain gases expected to be emitted by distant Civilisations.

Theorists at the Harvard – Smithsonian Centre for Astrophysics say that the James Webb Space Telescope being developed by NASA should allow Scientists to see deep into space and scour the Universe for evidence of certain substances.

"By studying Biosignatures, such as Molecular Oxygen in combination with a Reducing Gas, in the Atmospheres of transiting Exoplanets has been the major focus in the search for Alien Life", the scientists say in their Abstract. Additionally, they argue, “Anthropogenic Pollution could be used as a novel Biosignature for Intelligent Life,” specially the kind of Pollution that could be picked up by the still - in - development Telescope.
In other word, the Scientists say that Alien Life could be uncovered if the NASA Telescope, or future, more powerful models, can detect distant Pollution that it would be impossible to blame on Humans, but rather would presumably be a by-product of Extraterrestrial Civilisation.

Although any By-product Pollution that does not rejuvenate back into the Biosphere of any Life supporting Planet will have detrimental effect on the longevity of the Distant Alien Civilisation.

“On Earth, atmospheric Pollution has been carefully studied in the context of Global Climate Change And Air Quality Concerns,” the researchers write in their six-page paper. “It’s ironic that high concentrations of Molecules with high Global Warming Potential (GWP), the worst case scenario for Earth’s Climate, is the optimal scenario for detecting an Alien Civilisation, as GWP increases with stronger infra-red absorption and longer atmospheric Lifetimes.”

“We consider industrial pollution as a sign of Intelligent Life, but perhaps Civilizations more advanced than us, with their own SETI[Search for Extraterrestrial Intelligence] programs, will consider pollution as a sign of Unintelligent Life since it’s not smart to contaminate your own air.” added Harvard student and lead author Henry Lin.

“In that case, we could speculate that the Aliens wized up and cleaned up their act. Or in a darker Scenario, it would serve as a warning sign of dangers, of not being good stewards of our planet,” Loeb added.

But by studying the desolated existing Planets in our Solar System and the Vastness of the Cosmos, we can appreciate how Fragile Biological life can be, given the fundamental Infinite Universe as our Logical Platform.