



**TITLE:** The impact of Covid-19 social and economic crisis on the air quality parameters as perceived by the Marche Region air quality monitoring net before and during the lockdown

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**Research activity description:** Several studies realised in China show that the recent outbreak of SARS-CoV-2 pandemic, which led to lockdown of approximately all the cities, and the economic crisis which has dramatically decreased the industrial activities, had a huge impact on air quality for the declination of pollutants concentration. The aim of this study is to evaluate the impact of SARS-CoV-2 social and economic crisis on air pollutants concentration such as NO<sub>2</sub>, PM<sub>2.5</sub> and PM<sub>10</sub> in Marche Region, Italy. Moreover, the effect of atmospheric conditions, specifically temperature and wind speed has been discussed, on increase or decrease in concentration of aforementioned pollutants.

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