Your comments of 11/6/22:

Lines 8 and 217: Replace "thermo-optical" by "thermal-optical".

## Corrected

Line 9: Replace "PIXE" by "particle-induced X-ray emission" and replace "PMF" by "Positive Matrix Factorization".

## Corrected

Lines 29 and 285: Replace "anthropic" by "anthropogenic".

"anthropic" was found only on line 29.

Lines 51 and 378: There are two "Zhao et al., 2020" in the list of References; they should be renamed there to "Zhao et al., 2020a" and "Zhao et al., 2020b" and appropriate alterations should be made in lines 51 and 378.

#### Corrected

Line 65: Replace "VOCs emissions reduction" by "reduction of emissions of volatile organic compounds".

## Corrected

Line 71: Replace "analysis of" by "analyses of".

## Corrected

Line 73: Replace "that the variations" by "that variations".

## Corrected

Line 102: Replace "in ultrasonic" by "in a ultrasonic".

#### Corrected

Line 107: Replace "PIXE" by "particle-induced X-ray emission (PIXE)".

### Corrected

Line 121: Replace "thermo-optical" by "thermal-optical transmittance".

#### Corrected

Tables 5 and 6, for the Var. % data: most percentages have too many significant figures; two significant figures suffice and if the first significant figure is "1" then three significant figures can be used.

## Corrected

Line 265: Replace "was found" by "were found".

#### Corrected

Lines 270 and 321, on one hand, and 574, on the other hand: The years are inconsistent.

The date in the reference was only that of the last access. Since the data contained in the web pages referred to different years, the correct year was added at the end of the reference.

Line 284: Replace "elementary" by "elemental".

# Corrected

Line 287: Replace "associate" by "associated".

# Corrected

Lines 294, 302, 315, and 350: the percentages given here have too many significant figures; two significant figures suffice; thus, replace "38.9%, 49.7% and 60.8%" by "39%, 50% and 61%", and so on.

# Corrected

Line 298: Replace "citizens are" by "citizen houses are".

#### Corrected

Line 301: Replace "in literature" by "in the literature".

## Corrected

Line 329: Replace "atmospheric currents" by "atmospheric transport".

Corrected

Line 330: Replace "maintain a low" by "remain at low".

Corrected

Lines 343 and 459: The years are inconsistent.

The date in the reference was only that of the last access. Since the data contained in the web pages referred to different years, the correct year was added at the end of the reference.

Line 389: Replace "conversions" by "conversion".

Corrected

Lines 404-406: What is written here disagrees with what can be seen in Fig. 11; for Combustion in FI-1 there is a decrease for 2013 and not for 2020. The text should be modified.

Corrected

Line 407: Replace "do not differ" by "does not differ".

Corrected

List of References: Replace ". doi" and ", doi" by ", http://doi" throughout.

Corrected

Line 461: Replace "Spain). Sci." by "Spain), Sci.".

Corrected

Line 499: Insert a space before "Cao".

Corrected

Line 500: Replace ",125" by ", 125, e2019JD031998".

Corrected

Line 515: Replace "February)" by "February), 115682".

Corrected

Line 529: Replace "12(2)" by "12(2), 190".

Corrected

Lines 578-578: This reference is incorrectly to a review of the book of Seinfeld; "Pollution, Environmental Science & Technology, 20(9), Wiley, New York, NY, USA.

doi.org/10.1021/es00151a602, 1986." should be replaced by "Pollution, Wiley, New York, NY, USA, 1986."

Corrected

Line 590: Replace "September)" by "September, 110193".

Corrected

Lines 597-599: This reference should be moved up to before "Mor et al., 2021".

Corrected

Line 624: Replace ", Zhang" by ", and Zhang".

Corrected

Line 625: Replace ", 242" by ", 242, 117762".

Corrected

Line 629: Replace ", 739" by ", 739, 140000".

Corrected

Your comments of 24/6/22:

Line 442: Replace "anthropic" by "anthropogenic".

Corrected