README File

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Method(s) – described in manuscript

Location where data were collected – data were collected in a laboratory in Atlanta, GA

Time period during which data were collected – February 2019

Environmental or experimental conditions – described in manuscript

Standards or calibrations that were used – described in manuscript

Uncertainty, precision, and accuracy of measurements – described in manuscript

Quality assurance and quality control that have been applied – described in manuscript

Description of parameters/variables – 6 different experimental runs are shown. P_1, P_2 and m_dot with units are shown for each different run. To the left of each P_1 column the gas, porosity (phi) and length of the packed bed are listed.

Definitions of acronyms, site abbreviations, or other project-specific designations used in the data file names or documentation files – described in manuscript.

File Information – *Data.xlsx* contains the processed data from the data acquisition system. Two files are included *Data*.xlsx and *README.pdf*

Software – The experimental data was processed from the data acquisition system with LabView 2018. Matlab R2018a was used to generate plots and perform calculation as described in the manuscript.

Data source – experimental apparatus as described in the manuscript

Related materials – manuscript file: https://doi.org/10.1016/j.actaastro.2019.12.031

Limitations to reuse – n/a

Date dataset was last modified – Readme file was updated in March 2021

Any other important information about your data – n/a