

3F04: EFFECT OF FUEL/AIR RATIO AND AROMATICITY ON THE MOLECULAR WEIGHT DISTRIBUTION OF SOOT IN PREMIXED *N*-HEPTANE FLAMES.

Andrea D'Anna, Università Federico II, Italy

Anna Ciajolo, Michela Alfè, Barbara Apicella, Antonio Tregrossi, CNR, Italy

Comment by Klaus Peter Geigle, German Aerospace Center–DLR, Germany

klauspeter.geigle@dlr.de

The authors use the expression 'molecular weight' even for species clearly in the particulate regime. If not essentially required for certain reasons I would recommend to leave this expression for the purely molecular regime for clarity reasons and use the more general 'species weight' for species that can not clearly be attributed to be molecules or particulates, and especially for clearly identified particles.

Reply by Andrea D'Anna

andrea.danna@unina.it

In the paper the ambiguity of using the molecular weight, normally applied to molecules as $u/\text{molecule}$, to the particles/agglomerates has been mentioned. In spite of this ambiguity the term molecular weight has been used for avoiding confusion deriving from coining a new definition as species weight. Moreover, in the paper it has been also specified that the term molecular weight has been stretched to particles by calculating an equivalent molecular weight expressed as $u/\text{particle}$ by assuming a spherical structure and a known density.