Sub Topic: Reaction Kinetics

Spring Technical Meeting
Eastern States Section of the Combustion Institute
March 10-13, 2024
Athens, Georgia

Title of Paper

Author Name¹, Author Name¹, Author Name², and Author Name^{2,*}

¹Department, Institution, Address, Country
²Department, Institution, Address, Country
*Corresponding author: author@university.edu

Abstract: Abstract should be between 150–200 words and should state briefly the purpose of the research, the principal results and major conclusions. An abstract is often presented separately from the article, so it must be able to stand alone. For this reason, references should be avoided, but if essential, then cite the author(s) and year(s). Also, non-standard or uncommon abbreviations should be avoided, but if essential they must be defined at their first mention in the abstract itself.

Keywords: Keyword1, Keyword2, Keyword3, Keyword4

1. Introduction

You can use the following cite commands:

Single reference with number only: [1]

Multiple references with number only: [2–4]

Single reference with two or fewer authors: Affleck and Fish [2]

Single reference with three or more authors: Wang et al. [5]

Two references with authors: Kee et al. [6] and Baumgardner et al. [7]

Three or more references with authors: Kee et al. [6], Baumgardner et al. [7], and Haworth and Pope [8]

2. Methods/Experimental

Lorem ipsum dolor sit amet, consectetuer adipiscing elit. Etiam lobortis facilisis sem. Nullam nec mi et neque pharetra sollicitudin. Praesent imperdiet mi nec ante. Donec ullamcorper, felis non sodales commodo, lectus velit ultrices augue, a dignissim nibh lectus placerat pede. Vivamus nunc nunc, molestie ut, ultricies vel, semper in, velit. Ut porttitor. Praesent in sapien. Lorem ipsum dolor sit amet, consectetuer adipiscing elit. Duis fringilla tristique neque. Sed interdum libero ut metus. Pellentesque placerat. Nam rutrum augue a leo. Morbi sed elit sit amet ante lobortis sollicitudin. Praesent blandit blandit mauris. Praesent lectus tellus, aliquet aliquam, luctus a, egestas a, turpis. Mauris lacinia lorem sit amet ipsum. Nunc quis urna dictum turpis accumsan semper.

3. Results and Discussion

Lorem ipsum dolor sit amet, consectetuer adipiscing elit. Etiam lobortis facilisis sem. Nullam nec mi et neque pharetra sollicitudin. Praesent imperdiet mi nec ante. Donec ullamcorper, felis non sodales commodo, lectus velit ultrices augue, a dignissim nibh lectus placerat pede. Vivamus nunc nunc, molestie ut, ultricies vel, semper in, velit. Ut porttitor. Praesent in sapien. Lorem ipsum dolor sit amet, consectetuer adipiscing elit. Duis fringilla tristique neque. Sed interdum libero ut metus. Pellentesque placerat. Nam rutrum augue a leo. Morbi sed elit sit amet ante lobortis sollicitudin. Praesent blandit blandit mauris. Praesent lectus tellus, aliquet aliquam, luctus a, egestas a, turpis. Mauris lacinia lorem sit amet ipsum. Nunc quis urna dictum turpis accumsan semper.

3.1 Results

Lorem ipsum dolor sit amet, consectetuer adipiscing elit. Etiam lobortis facilisis sem. Nullam nec mi et neque pharetra sollicitudin. Praesent imperdiet mi nec ante. Donec ullamcorper, felis non sodales commodo, lectus velit ultrices augue, a dignissim nibh lectus placerat pede. Vivamus nunc nunc, molestie ut, ultricies vel, semper in, velit. Ut porttitor. Praesent in sapien. Lorem ipsum dolor sit amet, consectetuer adipiscing elit. Duis fringilla tristique neque. Sed interdum libero ut metus. Pellentesque placerat. Nam rutrum augue a leo. Morbi sed elit sit amet ante lobortis sollicitudin. Praesent blandit blandit mauris. Praesent lectus tellus, aliquet aliquam, luctus a, egestas a, turpis. Mauris lacinia lorem sit amet ipsum. Nunc quis urna dictum turpis accumsan semper.

4. Conclusions

Lorem ipsum dolor sit amet, consectetuer adipiscing elit. Etiam lobortis facilisis sem. Nullam nec mi et neque pharetra sollicitudin. Praesent imperdiet mi nec ante. Donec ullamcorper, felis non sodales commodo, lectus velit ultrices augue, a dignissim nibh lectus placerat pede. Vivamus nunc nunc, molestie ut, ultricies vel, semper in, velit. Ut porttitor. Praesent in sapien. Lorem ipsum dolor sit amet, consectetuer adipiscing elit. Duis fringilla tristique neque. Sed interdum libero ut metus. Pellentesque placerat. Nam rutrum augue a leo. Morbi sed elit sit amet ante lobortis sollicitudin. Praesent blandit blandit mauris. Praesent lectus tellus, aliquet aliquam, luctus a, egestas a, turpis. Mauris lacinia lorem sit amet ipsum. Nunc quis urna dictum turpis accumsan semper.

Lorem ipsum dolor sit amet, consectetuer adipiscing elit. Etiam lobortis facilisis sem. Nullam nec mi et neque pharetra sollicitudin. Praesent imperdiet mi nec ante. Donec ullamcorper, felis non sodales commodo, lectus velit ultrices augue, a dignissim nibh lectus placerat pede. Vivamus nunc nunc, molestie ut, ultricies vel, semper in, velit. Ut porttitor. Praesent in sapien. Lorem ipsum dolor sit amet, consectetuer adipiscing elit. Duis fringilla tristique neque. Sed interdum libero ut metus. Pellentesque placerat. Nam rutrum augue a leo. Morbi sed elit sit amet ante lobortis sollicitudin. Praesent blandit blandit mauris. Praesent lectus tellus, aliquet aliquam, luctus a, egestas a, turpis. Mauris lacinia lorem sit amet ipsum. Nunc quis urna dictum turpis accumsan semper.

Sub Topic: Reaction Kinetics

5. Acknowledgements

This research was funded by ...

Page Limits: The total length of the paper including references should be limited to 6 pages.

References

- [1] P. Zhao and C. K. Law, The Role of Global and Detailed Kinetics in the First-Stage Ignition Delay in NTC-Affected Phenomena, Combust. Flame 160 (2013) 2352–2358. DOI: 10.1016/j.combustflame.2013.06.009.
- [2] W. S. Affleck and A. Fish, Two-Stage Ignition under Engine Conditions Parallels That at Low Pressures, Symp. (Int.) Combust. 11 (1967) 1003–1013. DOI: 10.1016/S0082-0784(67) 80227-3.
- [3] T. Turanyi and A. S. Tomlin, Analysis of Kinetic Reaction Mechanisms, Springer Berlin Heidelberg, New York, NY, 2014.
- [4] D. G. Goodwin, R. L. Speth, H. K. Moffat, and B. W. Weber, Cantera: An Object-oriented Software Toolkit for Chemical Kinetics, Thermodynamics, and Transport Processes, Version 2.4.0, 2018, DOI: 10.5281/zenodo.1174508, URL: https://www.cantera.org.
- [5] Y. L. Wang, P. S. Veloo, F. N. Egolfopoulos, and T. T. Tsotsis, A Comparative Study on the Extinction Characteristics of Non-Premixed Dimethyl Ether and Ethanol Flames, Proc. Combust. Inst. 33 (2011) 1003–1010. DOI: 10.1016/j.proci.2010.06.157.
- [6] R. J. Kee, F. M. Rupley, E. Meeks, and J. A. Miller, CHEMKIN-III: A FORTRAN Chemical Kinetics Package for the Analysis of Gas-Phase Chemical and Plasma Kinetics, Report No. SAND96-8216, Sandia National Laboratories, Livermore, CA, USA, 1996.
- [7] M. E. Baumgardner, A. J. Marchese, and S. M. Sarathy, Autoignition Characterization of Primary Reference Fuels and n- Heptane / n-Butanol Mixtures in a Constant Volume Combustion Device and Homogeneous Charge Compression Ignition Engine, 8th US National Combustion Meeting (2013), paper 2A18.
- [8] D. C. Haworth and S. B. Pope, Transported Probability Density Function Methods for Reynolds-Averaged and Large-Eddy Simulations, in: T. Echekki and E. Mastorakos (Eds.), Turbulent Combustion Modeling: Advances, New Trends and Perspectives, Springer Netherlands, Dordrecht, 2011, pp. 119–142, URL: http://link.springer.com/chapter/10.1007/978-94-007-0412-1_6.