



Behzad Omidi Kashani

- PhD in Mechanical Engineering
- Academic Position: Assistant Professor
- Department: Mechanical Engineering
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Education

- **B.Sc. in Mechanical Engineering at University of Sistan and Balochestan, Zahedan, Iran. 1988**
- **M.Sc. in Mechanical Engineering at Ferdowsi University of Mashhad, Mashhad, Iran, 1994**
Title of Thesis: Numerical Consideration of the Combustion and Aerodynamic Phenomena in a Gas Fuelled Cyclone Combustion Chamber, January 1994.
- **Ph.D. in Mechanical Engineering at University of Tabriz, Tabriz, Iran, 1998.**
Title of Thesis: Mathematical Modeling for Prediction of Emission Pollutants in Dual-Fuel Diesel Engines, September 1999

- **Main Research Interests:**
 - Internal Combustion Engines
 - Control Pollutants and emissions
 - Flame and combustion
 - Evaporation cooling systems

Academic Positions

- **Assistant Professor, 1998 till now**

Executive Positions

- **Chair, Department of Mechanical Engineering 2001-2004**

Papers

- **Journal Papers:**
 1. **Development of soot formation sub-model for Scania DC-9 diesel engine in the steady-state condition** (DOI : 10.1007/s10973-019-08747-y) accepted in 21 August 2019.
 2. **The Improvement of Combustion process and reduction of Unburned Hydrocarbon Emission in a Two-Stroke Motorcycle**, Behzad Omid Kashani, Iranian Journal Science and Technology – Transaction B: Technology, Vol. 28, Number B4, pp 505-508, winter 2004 (http://ijstm.shirazu.ac.ir/article_977.html)
 3. **Prediction of Major pollutants emission in Direct–Injection Dual-Fuel Diesel and Natural-Gas Engines**, V. Pirouzpanah, B. O. Kashani, International Journal of Engineering, I.R.I., Vol.13, No. 2, pp 55-67, May 2000 (<http://www.ije.ir/Vol13/No2/N/abstract-240.html>)
 4. **A Diesel Engine Cycle Model for prediction of Performance and pollutants Emission**, V. Pirouzpanah and B. O. Kashani, Journal of Institution of Engineers (India), Vol. 81, pp 25-29, May 2000 (<https://link.springer.com/journal/volumesAndIssues/40032>), (<https://www.scimagojr.com/journalsearch.php?q=20390&tip=sid&clean=0>)
 5. **Development of a mathematical model for prediction of emission in D.I. diesel engines**, V. Pirouzpanah and B. Omid Kashani, International Journal of

Engineering, I.R.I, Vol. 11, No. 1, pp. 37-42, February 1998.
(<http://www.ije.ir/Vol11/No1/N/abstract-322.html>)

International Conference Papers:

- 1- **A stand-alone multi-zone model for combustion in HCCI engines**, P. Kongsereparp, Behzad Omid Kashani, M. D. Checkel, Ottawa, Canada, 2005.
- 2- **Consideration of the Valve Timing Effect on performance and Pollutants Emission in D.F.D.E**, Behzad Omid Kashani, 13th int. Conf.on Thermal Engineering and Thermogrammetry, Hungary, 2003
- 3- **The Improvement of Combustion process and reduction of Unburned Hydrocarbon Emission in a Two-Stroke Motorcycle**, Behzad Omid Kashani, 6th Int. Symposium on Advanced Vehicle Control, Japan, 2002
- 4- **The Improvement of an Emission Model for Dual-Fuel Diesel Engine**, Behzad Omid Kashani, 12th Conference of Thermogrammetry and Thermal Engineering, Hungary, 2001

Books

- 1- **Book Translated to Persian Language: Combustion Calculation, Theory, Worked Examples and problems**, by E. M. Goodger, The MACMILLAN PRESS LTD, 1977. (is translated in 2004).

Honors and Awards

Patent Invention:

- 1- **Behzad Omid Kashani, M. A. Nakaei, “The Modifying Apparatus for Electrical Systems of IZH Planta-5 Motorcycle Engine”**, Serial No.: A/70-003770, Code:1-2-12, Invention Entry No.: 27867, Date of Invention Registration: March 27, 2002.
- 2- **Behzad Omid Kashani, “Process of Modifying and Reduction of Water Consumption in Evaporation Water Coolers through Adjusting Volumetric Flow Rate of Circulated Water”**. Invention Entry No: 85579, Date of Invention Registration: May 03, 2015.

Awards:

- 1- **Winning the Fourth Annual Environmental National Award in “The Modifying Apparatus for Electrical Systems of IZH Planta-5 Motorcycle Engine”**, Iran, June 2003.
- 2- **The top researcher in the Southern Khorasan province, Iran, 2018.**