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PERSONAL INFORMATION

Name **MOHANAD HAMZAH HUSSEIN ALDUHAIDAHAWI**
Address **House number 5, Alabassiya street, Najaf, Kufa, Iraq**
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Nationality **Iraqi**

Date and place of birth **[23, Oct, 1980], IRAQ, NAJAF**

WORK EXPERIENCE

- Dates (from – to) **Assist lecture in Technical institute of Kufa, Al-Furat Al-Awsat Technical University, ministry of higher education and scientific research, Iraq (from 2006- until present**

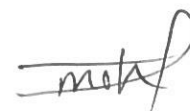
EDUCATION AND TRAINING

- Dates (from – to) **- Bachler in automotive engineering, Al-Furat Al-Awsat Technical University, Engineering Technical College of Al-Najaf, Iraq (2002-2006).**
- Master in mechanical engineering, University of Technology, faculty of mechanical engineering Malaysia (2010-2012).**

MOTHER TONGUE **[Arabic]**

OTHER LANGUAGES

- [English]**
- Reading skills **[good.]**
 - Writing skills **[good]**
 - Verbal skills **[good]**



Publications

ISI journal

- [1] Belyamin Belyamin, Alias Mohd. Noor, Mohanad Hamzah Hussein, Mazlan Said. Characterization of Diesel Engine Generator Operating at Different Compression Ratio Fuelled with Palm Oil Biodiesel. *Applied Mechanics and Materials*. 2013:388; 241-245.
- [2] Mohanad Hamzah Hussein. The Effect of Cylinder Head Face Cutting on The Diesel Engine Performance & Exhaust Emission. *Alnahrain journal for engineering sciences*. 2015:12; 54-61.
- [3] Mohanad Aldhaidhawi, Radu Chiriac, Viorel Badescu. Ignition delay, combustion and emission characteristics of Diesel engine fuelled with rapeseed biodiesel -A literature review. **Renewable & Sustainable Energy Reviews Journal**. 2017:73;178-186. **(Impact factor 8.050)**
- [4] Mohanad Aldhaidhawi, Radu Chiriac, Viorel Badescu, Georges Descombes, and Pierre Podevin. Investigation on the mixture formation, combustion characteristics and performance of a Diesel engine fueled with Diesel, Biodiesel B20 and hydrogen addition. **International Journal of Hydrogen Energy**. 2017; 42:16793-16807. **(Impact factor 3.582)**
- [5] Mohanad Aldhaidhawi, R Chiriac, V Badescu, H Pop, V Apostol, A Dobrovicescu, M Prisecaru, A A Alfaryjat, M Ghilvacs and A Alexandru. Performance and Emission of Generator diesel engine using methyl esters of palm oil and diesel blends at different compression ratio. **IOP Conf. Series: Materials Science and Engineering 147 (2016) 012135 doi:10.1088/1757-899X/147/1/012135.pp:1-10.**

Other Journal

- [6] Mohanad Aldhaidhawi, Radu Chiriac, Viorel Badescu. Modelling of engine performance, combustion characteristics and exhaust gas emission fuelled with Biodiesel B20. **Scientific Bulletin Journal**. ISSN 1454-2358. Vol 78, Iss 4, 2016.
- [7] Mohanad Aldhaidhawi, Radu Chiriac, Viorel Badescu. Model for predicting the Performance and Exhaust Gas Emissions of a Diesel Engine Fuelled by Diesel and Biodiesel B20 . Simulation and Validation. **Romanian Journal of Automotive Engineering" Journal (RoJAE)** 2017; 23:53-62.



[8] Mohanad Aldhaidhawi, Radu Chiriac, Viorel Badescu, A A Alfaryjat. Numerical investigation on the combustion characteristics a Diesel engine fuelled Biodiesel B20. **Revista Termotehnica Journal** ISSN 2247-1871.

International conference

[9] Mohanad Aldhaidhawi, Radu Chiriac, Viorel Badescu. Effect of rapeseed biodiesel B20 on combustion characteristics and emissions of DI diesel engine. The 10th International symposium on advanced topics in electrical engineering. March 23-25, 2017, **Bucharest, Romania. The paper published in IEEE Xplore 2017** page: 699-702, DOI:

10.1109/ATEE.2017.7905086.

[10] Mohanad Aldhaidhawi, Radu Chiriac, Viorel Badescu, Horațiu Pop. Thermodynamic modelling for performance analysis of diesel engine fuelled with palm oil biodiesel blends with diesel. The 13th WEC central & eastern Europe regional energy forum-**FOREN 2016 conference, Constanta, Romania** 12-16 June 2016 the paper published in **EMERG 4, ISSN 2457-5011 An II/2016**. Page 37-50.

[11] Alexandru Racovitza, Bogdan Radu, Mohanad Aldhaidhawi, Radu Chiriac. On the possibility to reduce diesel engines emissions by operating with biodiesel B20 in PPC Mode. **Proceedings of the European automotive congress EAEC-ESFA**, Bucharest, Romania 6-8 June 2015. The paper published in Springer, ISBN 978-3-319-2727-4. Page 405- 4019.

[12] Mohanad Aldhaidhawi, Radu Chiriac, Viorel Badescu. A numerical modeling of the engine performance, combustion and emission characteristics of a diesel engine fueled by diesel and biodiesel b20 fuels. **The First international conference for engineering researches. Baghdad, Iraq** 1-2 March 2017, page 1-13.

Paper submitted to the journals (Under processing)

[13] Mohanad Aldhaidhawi, Alexandru Racovitza, Radu Chiriac, Viorel Badescu. Ignition delay period for a compression ignition engine operating on diesel and biodiesel B20. **Scientific Bulletin Journal, Politehnica university of Bucharest**.

Paper submitted to ISI conference (Under processing)

[14] Mohanad Aldhaidhawi, Marek Brabec, Radu Chiriac, Viorel Badescu. Experimental and numerical assessment of ignition delay period for pure diesel and biodiesel B20. **CAR 2017-The International Congress of Automotive and Transport Engineering, Pitesti, Romania, November 8-10-2017**.

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