

Curriculum vitae

NAME: Mohammed FARID (BSc MSc PhD CEng FICHEM)

CURRENT POSITION: Professor (Personal Chair)

DEPARTMENT: Chemical & Materials Engineering

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QUALIFICATION:

PhD Chemical Engineering, University of Swansea, Wales, UK

ME Chemical Engineering, University of Swansea, Wales, UK

BSc Chemical Engineering, University of Baghdad, Iraq

PREVIOUS APPOINTMENTS:

2004- present University of Auckland, Professor (Personal Chair).

2000-2003 University of Auckland, Associate Professor (International Professor).

1997-2000 University of Auckland, Senior Lecturer.

1994-1997 University Sains Malaysia - Professor and Program Chairman.

1991-1994 Jordan University of Science and Technology - Professor.

1989-1991 University of Basrah - Professor and Head of Department.

1984-1989 University of Basrah - Associate Professor and Head of Department.

1978-1984 University of Basrah - Lecturer.

AWARDS/ PRIZES

2018 Received the “*Fredrik Setterwall Professional Development Award*” by the International Energy Agency ECES, 28 April 2018, Adana, Turkey, for my worldwide contribution in the development of energy management through storage.

2015 Received the “*Lifetime Achievement Award*” by the International Association of Engineering and Food (IAEF), for my contribution to the development of new technologies in food processing.

2010 Short listed and came in the third place for the *ICHEM Innovator of the Year Award* – sponsored by NES in the UK. The award recognizes the individual who best demonstrates his/her achievements and tangible application of chemical, biochemical and/or process engineering skills to address important economic, environmental or social issues.

2010 Awarded the prestigious *Marie Curie Fellowship* (the only New Zealander) to conduct research for one year in Spain to transfer PCM technology to Europe.

2007 Short listed and “Commended” by the Judging Committee for the *EECA E3 Product Innovation Awards*, 1st November 2007.

- 2007** Graded with A (highest) for performance in research during the last four years by the *University of Auckland internal PBRF panel* and the *New Zealand national PBRF panels*.
- 2003** Graded with A (highest) for performance in research during the last four years by the *University of Auckland internal PBRF panel* and the *New Zealand national PBRF panels*.
- 2003** Attracted national and international funding of more than NZ\$4.0 M nationally and internationally during the last ten years.
- 2000** Elected *Fellow of the Institution of Chemical Engineers, London (FIChemE)*.
- 1993** Received the “*Hisham Hijawi Award for Outstanding Scientific Achievement in Research*”, a non-government organisation in Jordan (US\$3000).
- 1990** Awarded the prestigious prize of US\$10,000 by the Ministry of Higher Education in Iraq for being the most active in research in the University of Basrah during 1990.
- 1986** Awarded the *Matsumae International Foundation Fellowship, Japan*, to conduct research in Tokyo Institute of Technology.
- 1981** Founder of the first *Chemical Engineering Department* in South of Iraq and run it for 10 years as a Head of Department.

MAJOR ACHIEVEMENTS AND ORIGINAL RESEARCH CONTRIBUTION

- 2006** Innovation in the synthesis of bioethanol and biodiesel with a number of granted patents.
- 1980** World leader in energy storage using phase change materials for thermally efficient homes, cold stores, refrigerated trucks and other applications.
- 2004** Invented a new method of generation high pressure for treatment of foods. The method was fully patented in February 2004 (Patent No 2602040.1D).
- 2003** Organiser and Chair of the First Australasian Workshop on Phase Change Materials for Thermal Storage in Buildings and Other Applications, Auckland, 12th December, 2003.
- 2001** Invented a new method of cooking meat patties based on ohmic heating (International Patent No: WO 02/102215 A1). The new technology has been widely publicised in New Zealand (including the 6.00pm Channel One news).
- 2001-2003** Developed a unified theory that describes most drying methods such as freeze drying, steam drying, spray drying, as well as frying and freezing (*please see the list of the most influential publications in Chemical Engineering Science, Chemical Engineering Processing and journal of Food Engineering*).
- 1998-2003** Presented, for the first time in the literatures, the theoretical analysis of sterilisation of food in plastic pouches using computational fluid dynamics (CFD). The 26 papers we have published during the last six years (1998-2003) on sterilisation using CFD also show how vitamins destruction can be theoretically predicted

INVITED KEYNOTE SPEAKER IN INTERNATIONAL CONFERENCES

- 2018** Invited Keynote Speaker to the 14th International Conference on Energy Storage (EnerSTOCK2018), Cukurova University, Adana, Turkey, 25-28 April 2018. “Industrial Applications of Energy Storage With Phase Change Materials”

- 2018** Invited Plenary Speaker to the International conference on Raw Materials to Processed Foods-RPFOODS, Spice Hotel, Antalya, Turkey, 11-13 April, 2018. “Innovation in Thermal/ No-Thermal Processing of Food”.
- 2018** Invited Speaker to the Ninth Energy Efficiency Forum and Exhibition, at the Istanbul Lütü Kırdar International Congress and Exhibition Center, Istanbul, March 29 -30, 2018. Energy Efficient Buildings: insulation is not enough you need to improve thermal mass of buildings.
- 2017** Invited Keynote speaker to the 13th International Conference on Heat Transfer, Fluid Mechanics and Thermodynamics (HEFAT2017), 17 – 19 July, 2017, Slovenia. Mathematical Modelling of Heat and Mass Transfer in Food Processing.
- 2017** Invited Keynote Speaker to the 13th World Bioenergy Congress and Expo, June 29-30, 2017 at Madrid, Spain. Converting Waste Products into Fuel and Useful Chemicals.
- 2016** Give an Invited Keynote to the International Conference on Solar Energy for Building and Industry (EuroSun 2016), 11- 14 October, 2016, Palma (Mallorca), Spain: *How can we make the use of phase change materials in buildings economically feasible?*
- 2016** Invited keynote talk to the 15th International Conference on Food Processing and Technology, 27-29 October, 2016 Rome, Italy during: *Innovation in Food Sterilisation*.
- 2016** Invited Plenary Speaker to the International Workshop on Lithium, Industrial Minerals and Energy (IWLIME 2016), Nov. 1-4, Jujuy, Argentina. *The Use of Phase Change Materials in Domestic and Industrial Applications*.
- 2015** Invited to give a talk about non-thermal processing activities in the “High Pressure Processing Workshop”, the FOODBOWL, Auckland, 27 October 2015.
- 2014** Invited talk “Pyrolysis of plastic waste...” in the Eighth International Conference on Waste Management and Technology (ICWMT), which was held in Beijing during the period from 28 to 31st October, 2014.
- 2014** Invited Speaker to “Seminar on Energy Storage” organised by Universidad de Antofagasta, Chile, 7-9 July 2014.
- 2013** Invited Plenary speaker to the International Workshop in Lithium, Industrial Minerals and Energy Storage-IWLME 1, to be held in Antofagasta-Chile, from 6 to 8 January 2014 (I was not able to attend).
- 2013** Invited Keynote Speaker to the conference iFOOD2013, which was held in Hanover, Germany, 8-10 October, 2013.
- 2013** Invited to give a talk on “Energy Storage for Efficient Use of Energy” at SCION, 26 April, 2013.
- 2013** Invited to give a talk “High Pressure Processing-From Pasteurisation to Sterilisation in the Workshop: High Pressure Processing organised by the NZ Food Innovation Auckland Ltd-The FOODBOWL, 16-17 April, 2013.
- 2012** Invited Keynote Speaker by the Indian Institute of Technology “CHEMCON2012”, Jalandhar, India, 27-30 December 2012.
- 2012** Invited talk in the Prestige Seminar Series organised by the Department of Chemical & Process Engineering, the University of Canterbury in June 14, 2012 “Energy Management with Phase Change Materials: from buildings to electronic devices”.
- 2011** Invited keynote speaker “How energy storage with phase change could improve the thermal performance of a timber home” Annex 23, Sharjah, April 25-26.

- 2011** Invited to visit South Korea to establish research collaboration between the two countries in energy and fuel, 15-17 May 2011.
- 2011** Invited speaker to give a talk in the NZ Institute of Food Science and Technology 2011 Annual Conference, Rotorua, New Zealand, 29 June-1 July, 2011.
- 2010** Invited keynote speaker “Cooling of Electrical and Electronic Devices Using Phase Change Materials”, *Annex 25: Surplus heat management using advanced TES for CO2 mitigation, Lleida, Spain, October 7-8.*
- 2010** Invited keynote speaker “Energy Storage for Efficient Use in Domestic and Industrial Applications”, International Conference on Renewable Energy: Generation and Applications (ICREGA’2010), AL-Ain, UAE, March 8-10.
- 2010** Invited keynote speaker “Clean Energy Technologies and Energy Efficiency for Sustainable Development”, December 27-29, 2010, Dehradun, India (unable to attend).
- 2009** Invited speaker to give a talk on the production and application of phase change materials by the company Kelong Chemical, Liaoning, China, 30 August-3 September
- 2009** Invited Plenary Speaker “Innovation in the Production of Biodiesel”, the 16th ASEAN Regional Symposium on Chemical Engineering (RSCE), Manila, Philippine, December 1-3.
- 2008** Invited Speaker to lead a Panel Discussion on Energy Storage-Future Possibilities by COPENMIND, 1- 3 September 2008, Copenhagen, Denmark.
- 2008** Invited Speaker to address the conference 4th Innovative Food Processing Conference, Brisbane, Australia 17-18 September.
- 2008** The Facilitator of The Manufacturing (Innovative Technology) Group in the conference Food-Frenz, Budapest, 10th-12 September.
- 2008** Invited speaker by University of Qatar to give a talk on energy storage in buildings and other applications, 16th November.
- 2008** Invited speaker by University of Basrah, Iraq to give a talk on energy storage, 26th November.
- 2007** Keynote Speaker in the “3-e Green Building International Conference”, held in Tainan, Taiwan, 15-18 October.
- 2007** Keynote Speaker to the Fifth International Conference on Nanochannels, Microchannels and Minichannels will be held during June 18-20, at the Universidad De Las Americas Puebla, Mexico.
- 2004** Invited Speaker to the 2nd Innovative Food Centre Conference, Sydney, Australia, 14-15 September.
- 2004** Keynote Speaker in the International Engineering Conference, Mutah, Jordan April 26.
- 2001** Invited Speaker to Chicago/ Midwest Renewable Energy Workshop.

OTHER SCIENTIFIC INVITATION

- 2015** Invited to give a talk to Goldmax about our development on infant formula, November, 2nd
- 2015** Article in the New Zealand Herald on 20 July 2015
http://www.nzherald.co.nz/technology/news/article.cfm?c_id=5&objectid=11483601
- 2015** World TV News on Tuesday 21 July 2015 at 9.08pm:
http://vod.istars.co.nz/watch_video.php?v=OYKBSSDXN51Ohttps://www.youtube.com/result

[s?search_query=phase+chnage+materials%2C+mohammed+farid%2C+university+of+auckland](https://www.researchgate.net/publication/260111111)

- 2013** Invitation by the University of Barcelona to establish research in food and energy fully paid, October 14-19, 2013.
- 2013** Expert Reviewer to give an independent views on a Patent Opposition case, July-August, 2013
- 2013** Invited to give a talk in the conference “Mssive Energy Storage for the Boarder Use of Renewable Energy Sources”, June 23-26, 2013, Newport Beach, California, USA
- 2013** Invited by Scion to give a talk on “energy storage for efficient use of energy”, 26 April, 2013.
- 2013** Invited with a team in February 11-15, 2013 by MSI through the EU-New Zealand Food and Health Promotion Tour in Europe to visit four Food Institutes in the UK, Netherlands, Germany and Switzerland.
- 2011** Invited with a team by MSI to visit South Korea to establish research collaboration between the two countries in energy and fuel, 15-17 May 2011.
- 2011** Invited speaker to give a talk in the NZ Institute of Food Science and Technology 2011 Annual Conference, Rotorua, New Zealand, 29 June-1 July, 2011.
- 2011** Invited keynote speaker: International Conference on Heat Treatment, Isfahan, Iran, 10-12, May 2011 (unable to attend).
- 2010** Invited keynote speaker “Clean Energy Technologies and Energy Efficiency for Sustainable Development”, December 27-29, 2010, Dehradun, India (unable to attend).
- 2009** Invited speaker to give a talk on the production and application of phase change materials by the company Kelong Chemical, Liaoning, China, 30 August-3 September.
- 2009** Invited to give a brief talk on Energy Storage in the workshop and Expert Meeting of Task 42/ Annex 24: Compact Thermal Energy Storage, September 23-25, Lieida, Spain.
- 2008** Invited speaker by University of Qatar to give a talk on energy storage in buildings and other applications, 16th November.
- 2008** Invited speaker by University of Basrah, Iraq to give a talk on energy storage, 26th November.
- 2005** Invited by IIT/ Chicago and Aspen System Ltd/ Boston to develop research on efficient cooling systems for fire fighting and harsh environment, December 5-14, 2005.
- 2004** Invited to give a talk on “Innovative thermal and non-thermal processing of foods” in the Department of Food Science and the Department of Food, Agricultural and Biological Engineering at Ohio State University.
- 2004** Visiting Professor at Illinois Institute of Technology, Chicago for one year.
- 2004** Invited to visiting the Institute of Thermodynamics and Thermal Engineering (by Prof. Hans Muller-Steinhagen), University of Stuttgart, Germany, 3-5 March 2004.
- 2004** Visit the Department of Chemical engineering at the Technical University of Vienna (by an Invitation from Dr. Richard Gapes).
- 2003** Visiting Professor by Illinois Institute of Technology, Chicago (funded for two months).
- 2002** Visiting Professor to the Biotechnology Centre at the National University of Singapore (funded for one week).
- 2001** Invited Speaker to Chicago/ Midwest Renewable Energy Workshop.
- 1990** Chemical Engineering Department, University of Swansea, UK, May 1990 (fully funded for 2

weeks).

- 1987** Tokyo Institute of Technology, Tokyo, Japan, May 1987 (fully funded for 6 months).
- 1983** University of Oulu, Finland, April 1983 (fully funded for 5 months).
- 1983** Gdansk Politechnica, Poland, Oct. 1983 (1 week).
- 1982** Indian Institute of Technology, New Delhi, India, March 1982 (2 weeks).
- 1980** The University of Paul Sabatier, France, Feb. 1980 (1 week).

MEMBER OF EDITORIAL BOARD OF INTERNATIONAL JOURNALS

- 2011** Guest Editor of special issue of the journal “Enzyme Research: Enzymes in Biofuels Production”
- 2009** Member of the Editorial Board of the journal: Recent Patents on Food Nutrition and Agricultural.
- 2009** Member of the editorial board of the International Review of Chemical Engineering.
- 2006** Member of the Editorial Board of Journal of Food Engineering.

COMMITTEE MEMBER IN INTERNATIONAL CONFERENCES

- 2017** Member of the Advisory Committee of the 3rd International Conference on Global Sustainability and Chemical Engineering, February 2017, University Technology Mara, Malaysia.
- 2016** Member of the Scientific Advisory Committee of the conference Food Engineering 2016 (CoFE 2016), which will be held in Columbus, OH on September 12-14, 2016.
- 2016** 4th IIR Conference on Sustainability & the Cold Chain, Auckland, 7-9 April 2016.
- 2016** Member of the Scientific Committee of the conference “WasteEng2016, the 6th International Conference on Engineering for Waste and Biomass Valorization to be held in Albi, France, May 23 – 26, 2016.
- 2015** Member of the International Committee of 10th Conference on Sustainable Development of Energy, Water and Environment Systems, September 27 - October 3, 2015, Dubrovnik, Croatia.
- 2015** Member of International Advisory Committee of the 1st International Conference on Recent Advances in Bio Energy Research, Kapurthala, India, Feb 25-28, 2015.
- 2015** Distinguished expert in the International Scientific Committee of IEA-ECES-2015 Greenstock Conference, Beijing China on May 19 to 21 2015.
- 2014** Reviewer for ICEF12 - 12th International Congress on Engineering and Food, Québec City, Canada, June 14-18, 2015.
- 2014** Member of the advisory committee of : The Energy & Material Research Conference - EMR2015, Madrid (Spain), 25-27 February 2015.
- 2014** University of Auckland representative in the COST TD1104 Action: European Network for Development for Electroporation Technologies.
- 2014** Member of the Scientific Committee of the Eurotherm Seminar 99, held in Llieda, Spain in May 2014.

- 2014** Member of the Scientific Organising Committee of Science Symposium: Next Generation Liquid Biofuel and Co-Products, 16 October, 2014, Rotorua, New Zealand.
- 2013** Member of the international scientific committee for 8th CIGR International Technical Symposium on “Advanced Food Processing and Quality Management” to be held on 3-7 November 2013 in Guangzhou, China.
- 2012** Member of the Advisory Board of the National Conference on Energy Conservation in Buildings, 27 & 28 April 2012, Dehradun, India.
- 2012** Member of the Technical Committee for CHEMECA2012 to be held in Wellington, September 2012. Also acting as a Stream Chair for papers on Energy and Fuels.
- 2012** Member of the Advisory Board of the Sixth Jordan International Chemical Engineering Conference, Amman-Jordan, March 12-14, 2012.
- 2011** Organiser of the Korean/ New Zealand Workshop on Energy, which was held in Auckland on Monday 17 October, 2011.
- 2011** Member of the Scientific Committee of “EUOROTHERM Seminar- Thermal Storage and Transportation: Materials, System and Application2, Which was held in Bordeaux, France from 16-18 November, 2011.
- 2011** Member of the International Advisory Committee of the 8th Asia Pacific Conference on Sustainable Energy & Environmental Technologies (APCSEET 2011), which was held in Adelaide from 10-13, July 2011.
- 2010** Member of the Scientific Committee of the second International Seminar on Water, Energy and Environment -ISWEE’10, 2-4 November 2010, Algeria.
- 2010** Member of the International Advisory Board of the International Conference on Environment, Penang 13-15 December 2010.
- 2009** Member of the International Advisory Committee of the conference “ 7th Asia Pacific Conference on Sustainable Energy and Environmental Technologies (7thAPCSEET), Qingdao, China 15-17, 2009.
- 2009** Member of the Scientific Committee of the international conference “Bio & Food Electrotechnologies (BFE2009), Compiegne, France, 22-23 October, 2009.
- 2009** Member of the Scientific Committee of the conference “ 5th International Technical Symposium on Food Processing, Monitoring Technology in Bioprocesses and Food Quality Management, Potsdam, Germany, Aug 31-Sept 2.
- 2006** Member of the Scientific Committee of the conference IIR/ IRHACE 2006, held in Auckland, 16-18 February, 2006.

OTHER SCIENTIFIC ACHIEVEMENTS

- 1982** Founder of the Chemical Engineering Department at the University of Basrah.
- 1995** Established new Postgraduate Programme of Study at the School of Chemical Engineering, University Sains Malaysia, Malaysia.
- 1996** International Solar Energy Society (ISES).
- 1998** Food Engineering Association of New Zealand (FEANZ).
- 2000** Fellow of the Institution of Chemical Engineers, London (FIChemE).
- 2000** Member of the Society of Chemical Engineers New Zealand (SCENZ).

- 2001 Registered Consultant at the EECA's Renewable Energy Products and Service Database
- 2003 Coordinator of the Food Cluster in the School of Engineering comprising nine senior academic staff members from the Department of Chemical and Materials Engineering and the Department of Food Science.
- 2003 International Institute of Refrigeration Commission Member (E1).
- 2003 Technical Advisor for Research and Development of NZ Green Fuel Technologies Ltd.
- 2007 New Zealand representative in the International Association of Engineering and Food (IAEF), which supports the International Congress on Engineering and Food, ICEF.
- 2007 Member of the CE³ Fund (www.ce3fund.com)
- 2007 Vice President of the International Society of Energy Materials (ISEM).
- 2007 Contributed to the writing of the report on IChemE's Roadmap for 21st Century Chemical Engineering
- 2008 Coordinator of the Energy & Environment Cluster
- 2009 The Australian & New Zealand Solar Energy Society (ANZSES).
- 2011 Member of the Marie Curie Fellow Association.
- 2012 Panel Chair of the Physical Science Internal PBRF Committee at the University of Auckland
- 2014 The PhD thesis of my student "Edward Oro" has been selected as the best PhD thesis published in 2013 at University of Lleida in Spain.
- 2014 New Zealand representative of European Cost Action TD1104.
- 2014 Member of commission of the International Institute of Refrigeration, IIR from 2000 to 2019.

RESEARCH ACTIVITIES

Energy and Environment: Design and simulation of energy storage systems for the efficient utilization of energy in building and other domestic and industrial applications such as cold storage facilities, Production/ macro and microencapsulation of phase change materials for energy storage, Efficient microchannel heat exchangers for cooling electronic devices, Production of bio-diesel from vegetable oil and animal fat, Production of bioethanol from cellulosic material, Pyrolysis of plastic wastes and used tires into diesel and activated carbon.

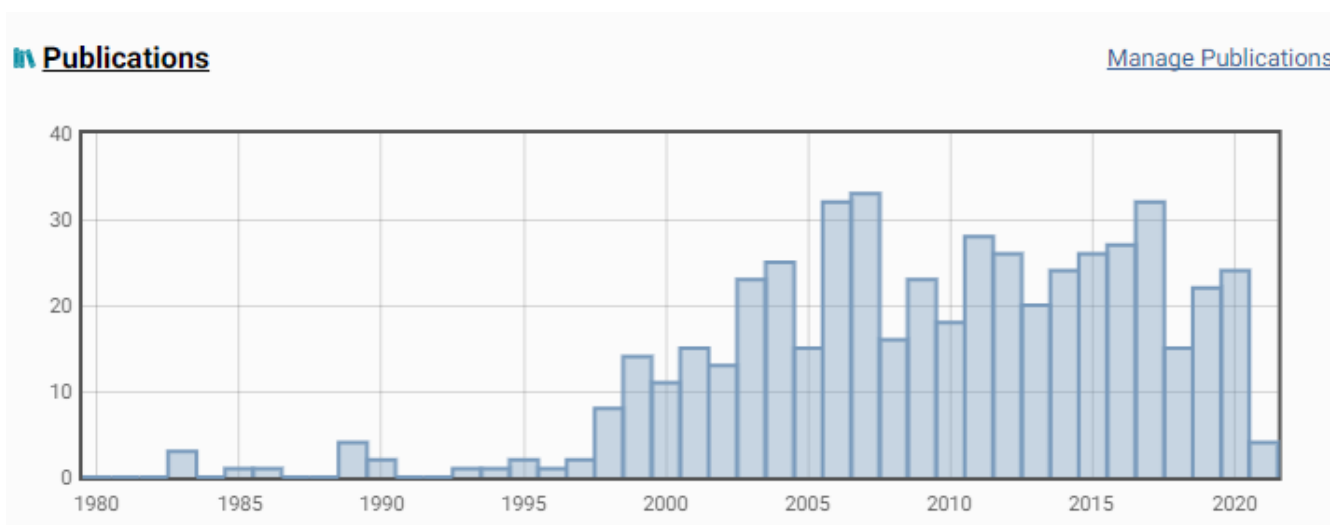
Food Process Engineering: Heat and mass transfer in food processing, such as: drying, frying, freeze-drying, freezing and microwave heating and drying, Thermal processing of food: ohmic heating of liquid and solid food, analysis of thermal sterilization in cans and pouches using Computational Fluid Dynamics (CFD), fouling, freeze-concentration, microwave extraction, Non thermal processing of food: Ultra-Violet (UV) processing of liquid food, high pressure processing (HPP), pulsed electric field (PEF) treatment of milk and juices, membrane separation.

Water and Wastewater Treatment: Solar desalination, solar UV detoxification of organic pollutants in water, Wet air oxidation AND Hydrothermal process for treating pollutants in industrial wastewater water.

LIST OF PUBLICATIONS

Published 360 papers in international high quality journals and refereed conferences, 7 patents, 5 books and 11 chapters in books.

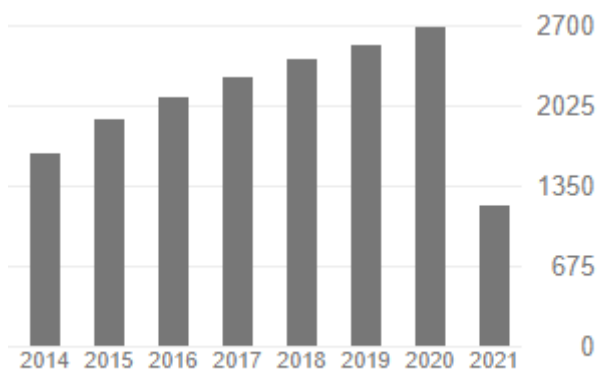
Annual publication record



Cited by

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	All	Since 2016
Citations	24140	13242
h-index	67	49
i10-index	194	169



PATENTS (7 patents)

Farid, M.M. Al-Shannaq, R., Al-Muhtaseb, S. and Kurdi, J. Method for low temperature microencapsulation of phase change materials, US20180223146A1/WO2017040699A1, 2015.

Farid, M.M. Process of Preparing Phase Change Materials and phase change materials obtainable by such process, International patent applications PCT/NZ 2011/000011, 2010.

Belanger, h., Watson, J, Yao, J., Prestidge, R., Lough, T., Macfarlen,A., **Farid, M.M.**, Chen, J. Elton, C. Recovery of lignin and water soluble sugars from plant materials. US 2010/0136642 A1, 2010.

Farid, M.M. "Pressure Assisted Thermal Sterilization or Pasteurization Methods and Apparatus.

New Zealand Patent No 562341 granted in 8 October, 2009: US 2009/0181139 A1, 2009.

Farid, M.M. and Behzadi, s. "Method of Biodiesel Preparation" International Patent WO 2007/049979 A1, 3 May, 2007, US Patent 2009/0038209, Feb., 2009 and PCT/NZ 2006/000277, 2009.

Belanger, h., Watson, J, Yao, J., Prestidge, R., Lough, T., Macfarlen,A., **Farid, M.M.**, Chen, J. Elton, C. "Process for the production of biofuel from plant materials. Patent WO/2007/129921, 2008.

Farid, M.M. and Al-Hallaj 'Microchannel Heat Exchanger With Micro-encapsulated Phase Change Material For High Flux Cooling' Patent filed by Illinois Institute of Technology, Chicago, 2006.

Wallace, R., Taylor, M. ,Chen, J., and **Farid, M.M.** "Optimal cooling of industrial furnace walls, filed by University of Auckland, 2004.

Farid, M.M. "A new method of cooking meat patties based on ohmic heating (International Patent No: WO 02/102215 A1), 27 December. Registered in the US, Canada, Australia and New Zealand, 2002.

PUBLICATIONS

BOOK

Farid, M. M. (Ed.) (2010). Mathematical modeling of food processing. USA: CRC Press / Taylor & Francis Group.

Farid, M. M. (Ed.) (2008). Food Drying Science and Technology: Microbiology, Chemistry, Application. USA: DEStech Publications, Inc.

Hui, Y. H., Clary, C., **Farid, M. M.**, Fasina, O. O., & Welte-Chanes, J. (2007). Food Drying: Science and Technology. USA: Destech Publications Inc.

Abdul Ghani, A. G. A. A., & **Farid, M. M.** (2006). Sterilization of food in retort pouches. Boston, MA: Springer Science and Business Media.

Farid, M. M., & Khudhair, A. M. (Eds.) (2003). Proceedings of First Australasian Workshop on Phase Change Materials for Thermal Storage in Buildings and Other Applications. Auckland, New Zealand: The University of Auckland.

Farid, M.M "Book: Volume II of Chemical Engineering Kinetics: in Arabic", University of Basrah Press, Iraq, 1985.

Farid, M.M. "Book: Volume I of Chemical Engineering Kinetics: in Arabic", University of Basrah Press, Iraq, 1981.

CHAPTER

Al Shannaq, R., & **Farid, M. M.** (2015). Microencapsulation of phase change materials (PCMs) for thermal energy storage systems. In L. F. Cabeza (Ed.), *Advances in thermal energy storage systems: Methods and applications* (Vol. 66, pp. 247-284). Cambridge, UK, Waltham, Massachusetts, USA: Elsevier/Woodhead Publishing. doi:10.1533/9781782420965.2.247.

Farid, M. (2013). Heat and Mass Transfer in Food Processing. In M. Kutz (Ed.), *Unknown Book* (pp. 379-401). ELSEVIER ACADEMIC PRESS INC. doi:10.1016/B978-0-12-385881-8.00014-8

Abbas, H., Taylor, M. P., **Farid, M.**, & Chen, J. J. J. (2013). The impact of cell ventilation on the top heat losses and fugitive emissions in an aluminium smelting cell. In G. Bearne, M. Dupuis, & G. Tarcy (Eds.), *Essential readings in light metals: Aluminium reduction technology, volume 2* (Vol. 2, pp. 433-438). Hoboken, NJ: John Wiley & Sons, Inc.. doi:10.1002/9781118647851.ch62

Wimalaratne, S. K., & **Farid, M. M.** (2010). Pressure Assisted Thermal Sterilization. In *High Pressure in Chemical Engineering*.

- Farid, M. M., & Alkhafaji, S.** (2009). Pulsed Electric Fields: A Review on Design. In *Novel Food Processing: Effect of Rheological and Functional Properties* (pp. 47-65). CRC Press.
- Farid, M. M.** (2008). Unified Approach to the Analysis of Different Drying Processes. In Y. H. Hui, C. Clary, M. M. Farid, O. O. Fasina, A. Noomhorm, & J. Welti-Chanes (Eds.), *Food Drying Science and Technology: Microbiology, chemistry, application* (pp. 43-66). USA: DEStech Publications, Inc.
- Farid, M. M.** (2007). Unified approach to the analysis of the different drying processes. In Y. H. Hui (Ed.), *Food Drying Science and Technology* (pp. 43-67). Destech Pubns Inc.
- Farid, M. M.** (2007). Heat and Mass Transfer in Food Processing. In Myer Kutz (Ed.), *Handbook of Farm, Dairy and Food Machinery* (pp. 367-390). USA: William Andrew Publishing.
- Abdul Ghani, A. G. A. A., & **Farid, M. M.** (2007). Modeling of High Pressure Processing. In Da-Wen Sun (Ed.), *Computational Fluid Dynamics in Food Processing* (pp. 331-346). Boca Raton: Chapman Hall / CRC.
- Abdul Ghani, A. G. A. A., & **Farid, M. M.** (2007). Thermal Sterilization of Food Using CFD. In Da-Wen Sun (Ed.), *Computational Fluid Dynamics in Food Processing* (pp. 537-554). Boca Raton: Chapman Hall / CRC.
- Behzadi, S., & **Farid, M. M.** (2006). Liquid fuel from plastic wastes using extrusion-rotary kiln reactors. In J. Scheirs, & W. Kaminsky (Eds.), *Feedstock recycling and pyrolysis of waste plastics*. J. Wiley & Sons.
- Al-Baali, A. G. A. G., & **Farid, M. M.** (2006). THERMAL STERILIZATION OF FOOD Historical Review. In *Unknown Book* (pp. 1-16). SPRINGER. Retrieved from <http://gateway.webofknowledge.com/>
- Abdul-Ghani, A. G., **Farid, M. M.**, & Chen, X. D. (2016). Numerical simulation of transient two-dimensional profiles of temperature, concentration, and flow of liquid food in a can during sterilization. In *Transport Phenomena in Food Processing* (pp. 463-482).
- Ghani, A. G., & **Farid, M. M.** (2001). Numerical simulation of transient two-dimensional profile of temperature, concentration and flow of liquid food in can during sterilization. In J. Welti-Chanes, J. Velez-Ruiz, & G. Barbosa-Canovas (Eds.), *Advances in Transport Phenomena for Food Processing* (pp. 463-482). USA: CRC Press.

JOURNAL ARTICLE

- Galazutdinova Y, Ushak S, Farid M, Al-Hallaj S, Grágeda M. (2021). Development of the inorganic composite phase change materials for passive thermal management of Li-ion batteries: Application *Journal of Power Sources* 491:229624. doi: [10.1016/j.jpowsour.2021.229624](https://doi.org/10.1016/j.jpowsour.2021.229624)
- Clark R-J, Farid M. (2021). Experimental investigation into the performance of novel SrCl₂-based composite material for thermochemical energy storage. *Journal of Energy Storage* 36:102390. doi: [10.1016/j.est.2021.102390](https://doi.org/10.1016/j.est.2021.102390)
- Sarri A, Bechki D, Bouguettaia H, Al-Saadi SN, Boughali S, Farid MM. (2021). Effect of using PCMs and shading devices on the thermal performance of buildings in different Algerian climates. A simulation-based optimization *Solar Energy* 217:375-389. doi: [10.1016/j.solener.2021.02.024](https://doi.org/10.1016/j.solener.2021.02.024)
- Alsaud N, Shahbaz K, Farid M. (2021). Evaluation of deep eutectic solvents in the extraction of β -caryophyllene from New Zealand Manuka leaves (*Leptospermum scoparium*). *Chemical Engineering Research and Design* 166:97-108. doi: [10.1016/j.cherd.2020.11.028](https://doi.org/10.1016/j.cherd.2020.11.028)

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RESEARCH GRANTS/ FUNDING

Attracted about NZ\$3.0 M of funding during the last eight years

- 1998 University Research Grant (NZ\$5000).
- 1999 Water and wastewater minimization in the dairy industry with *Kiwi Dairies Ltd* funded by Technology New Zealand (NZ\$29000).
- 1999 Design a new transformer air cooler with *ABB Transformers Ltd.* (NZ\$12000).
- 2000 University Research Grant (NZ\$7000).
- 2000 Design a plant for wet air oxidation process with *FLO-DRY Ltd.* (NZ\$36000).
- 2000 Modelling of Industrial Milliscreen with *USF Contra-Shear* (NZ\$25876).
- 2000 Teaching and Research Infrastructure Fund (NZ\$70000).
- 2001 UV processing of juices with *The Juice Factory* funded by Technology New Zealand (NZ\$2700).
- 2001 Ohmic cooking of meat patties funded by *UniServices* (NZ\$3000).
- 2001 Pulsed electric field processing of milk funded by *Fonterra Research Centre (FRC)* (NZ\$90,000).
- 2002 Ohmic heating of milk funded by *Fonterra (Kiwi Dairies Ltd) and Technology New Zealand* (NZ\$30000).
- 2002 Water consumption reduction in the pulp & paper industry Project funded by *Tasman pulp & Paper and Technology New Zealand* (NZ\$30000).
- 2002 Production of Biodiesel fuel from low-grade tallow funded by *FLO-DRY Ltd and Technology New Zealand* (NZ\$30000).
- 2002 New materials for phase-change thermal storage. PGSF Project funded by the *Foundation for Research, Science and Technology* (NZ\$210,000).
- 2002 Further development in ohmic cooking funded by *UniServices* (NZ\$20,000).
- 2002 High Pressure Processing funded by the *Vice Chancellor's University Development fund* (NZ\$60,000)
- 2002 Analysis of high pressure processing: *NZ Science and Technology Post-Doctoral Fellowship* for Dr. Abdul Ghani to work with me for three years (NZ\$202,500).
- 2003 Microwave enhanced Extraction: *Keam-Holdem Industrial RF and Microwave Auckland Ltd and Technology New Zealand* (NZ\$120,000 for three years).
- 2004 Energy storage in buildings funded by the *Foundation for Research Science & Technology* through *UniServices* (NZ\$75,000)
- 2004 Production of biodiesel from Tallow: *Flo-Dry Engineering Ltd and Technology New Zealand* (NZ\$120,000 for three years)
- 2004 Bio ethanol from biomass: *AgriGenesis Ltd. and Technology New Zealand* (NZ\$120,000 for three years)
- 2007 Production of phase change materials from waste plastics with innovative encapsulation technologies to manufacture high value products for niche thermal applications. NERF project funded by the *Foundation for Research, Science and Technology* (NZ\$1.687millions).
- 2007 Joint funding: Cross Faculty Research Funding (\$25000), NERI funding (18,000), UARC funding (\$15,000)
- 2011 Characterisation of corrosion resistance materials for innovative food processing (US\$513,000)
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- 2012 Developing innovative phase change materials based on raw materials available in Qatar,
NPRP
No 5-093-2-034 (US\$976,499)
- 2013 FP7 funding for exchange of visits (INNOSTORAGE) with European team (EU 142,800.00)
- 2013 IRSES Counterpart Fund (\$82,205) from the Royal Society of New Zealand.
- 2015 Food Enabling Technologies (FIET) funded for 6 years (16 million dollar) to six organisation including UoA.