

Curriculum Vitae

Ghani Albaali, Ph.D.



Current Position: **Visiting Professor**
Environment Technology and Management
King Talal School of Business and Technology
Princess Sumaya University for Technology
P. O. Box 1438 Al-Jubaiha 11941 Jordan,
Amman, Jordan

Phone No.: Mobile (NZ) 0064212512530, Mobile (JD) 00962796963116

Date of birth: 10 April 1956

Citizenship New Zealand Citizen

Marital Status: Married

Permanent Home Address: 2/238 St. Heliers Bay Rd., St. Heliers,
Auckland, New Zealand

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dr_abdul_ghani@yahoo.com

ACADEMIC QUALIFICATIONS:

- **Post-Doctoral** in High Pressure Processing and CFD, 2005, Foundation of Research Science and Technology, New Zealand.
- **PhD** in Chemical & Materials Engineering, 2001, The Univ. of Auckland, NZ
- **MSc** in Physics, 1981 (Baghdad, Iraq)
- **BSc** in Physics 1978 (Baghdad, Iraq)

THE EXPERTISE:

Scientific Activities: Processing Engineering, Heat & Mass Transfer, Computational Fluid Dynamics (CFD), Numerical Analysis, Computer Simulations, Mathematical Modelling, Mathematics and Physics Science, Fluid Mechanics, Environment Engineering and Managements, Renewable Energy, Solar Energy, Photovoltaic Applications, Dust Measurements, Petroleum Engineering, Thermal Sterilization, High Pressure Processing, Food Engineering, Statistics, Research Methodology and Data Analysis.

Managing Activities: General and Financial Management, Project Administration, Managing Budgets and Monitoring Expenses, Business Planning, Investment Project Development, Consulting, Training, and Auditing, Maintaining Office Systems, motivating a team (up to 40 persons) and Monitor their work, Strong Analytic Skills, Presentation Skills, Negotiations, Public Relations, Cooperation with Foreign Consulting Companies and Institutes

PUBLICATIONS: More than 200 published papers, books and chapters in books in the above areas.

http://www.amazon.com/A.G.-Abdul-Ghani-Al-Baali/e/B004Z6SZX4?ref=pe_1724030_132998060

PROFESSIONAL AFFILIATION:

- Member of the Society of Chemical Engineering New Zealand (SCENZ), affiliated to the Institution of the Professional Engineers New Zealand & the Institution of Chemical Engineers United Kingdom.
- Member of IPENZ (Institute of Professional Engineers of New Zealand).
- Member of Association of Computing Machinery (ACM) New Zealand Chapter.
- Member of Institute of International Education IIE, Washington, USA.
- Member of ANZSES (Australian New Zealand Solar Energy Society).
- Associate member of ISES (International Solar Energy Society).
- Member of Food Science and Process Engineering Group, Department of Chemical and Materials Engineering, School of Engineering, the University of Auckland.
- Member of the International Center for Theoretical Physics (ICTP), Trieste, Italy, (1987-1990).

SUMMARY OF QUALIFICATIONS AND ACTIVITIES

- Over than 40 years of experience in a myriad of Scientific Research, Teaching and Managing positions and in different fields, as a Visiting Professor, Associate Professor, Chemical Engineer, Processing Engineer, Senior Research Scientist, Consultant, and Technical Manager.
- Extensive experience (Advisor) in Computer Simulations, Numerical Analysis, Applied Mathematics, Mathematical Modelling, and Engineering Modeling.
- One of the Internationals well known figures in the field of using Computational Fluid Dynamics (CFD) in Engineering Applications.
- Developed a several computer models (for the first time) for heat & mass transfer to predict temperature distribution during thermal sterilization using CFD. These works are published in International Journals and presented in several International Conferences (USA, Australia, France, Japan, Mexico, Malaysia, Turkey, and New Zealand). University of Paris presented part of the work in France Thermal Society meeting in May 2000.
- International lecturer for Institute of International Education IIE (Washington) in the area of Modelling, Processing Engineering and Renewable Energy.
- Reviewer of the Applied Energy Journal (ISI Journal) of Impact Factor 7 and one of top journals in the world in the area.
- Reviewer of hundreds of international journals and conferences.
- Organizing and Technical Committee of several international conferences.
- Accredited in the establishing of a new department in Princess Sumaya University for Technology (Department of Environment Technology and Management), with the Ministry of Higher Education in Jordan. In charge of Post Graduate Courses in Environment Technology
- Supervise, Co-supervise, External Examiner, Examine Committee of several post graduate students.
- Attended several training courses in US, Italy, Germany, Australia, New Zealand, Iraq and Jordan.
- Attended training courses in Physics, Material Science & Renewed Energies at the International Center for Theoretical Physics, Trieste, Italy, 1987-1989.

- Attended and presented papers in conferences in Japan, United States, France, Australia, Canada, Mexico, Malaysia, Turkey, New Zealand, Jordan and Iraq.
- Established the Solar Physics Laboratory in 1985 at the Solar Energy Research Center (Iraqi Scientific Research Council, Baghdad, Iraq), trained in Germany on advanced solar laboratory equipment's worked under laser and computer control for environmental measurements.
- Attended and presented papers at several Scientific Conferences for the Iraqi Solar Energy Research Centre, Scientific Research Council in 1983, 1984, 1985, 1986, 1987 and 1988.
- Supervised summer training (Solar Energy & PV Applications) for the Iraqi Universities and Institutes students from 1983 to 1990.
- Cooperated in different big projects in Iraq, with the Iraqi Space Research Center, Iraqi Meteorology Establishment, and Public Establishment for Technical Industries- Al Mansour Unit 1983-1987.
- Seven years' Experience as a Technical Manager responsible for all technical issues related to the operation of the factory. Ensure the product safety, customer service quality, and relationships.
- Reviewer of several International Books, Journals, and Conferences. Official Journal of the European Federation of Chemical Engineering, Institution of Chemical Engineers, IChemE.
- Awarded Institute of International Education Fellowship, Washington, DC. (2008-2010).
- Awarded a Post-Doctoral Fellowship (Sept. 2002-Aug. 2005) from the New Zealand Foundation of Research Science and Technology.
- Awarded a Research Fellowship to work at the Department of Chemical and Materials Engineering, the University of Auckland. (2002-2007).
- **Awarded the Best Doctoral Thesis in the Faculty of Engineering in the year 2001.**
- Awarded two scholarships (1998-2000) from the Chemical and Materials Engineering Department.
- Several Letters of appreciations and rewards from the Iraqi Scientific Research Council Chairman for the assessment of performance (Detailed Below).
- Proficient in the use of Word, Excel, and Power Point.

- Strong analytical skills and an inquisitive mind with an ability to articulate views crisply and convincingly.
- Experienced in multicultural business environments.
- Excels in program coordination and organizational planning and highly skilled in building and developing support and strategic partnership.

EMPLOYMENT

- 2012 – Present Princess Sumaya Univ. for Tech., Jordan
- 2009-2012 Consultant at National Energy Research Center and Post Graduate Teaching and Supervision, Royal Scientific Society RSS Amman, Jordan
- 2008 – 2009 OTR & Service Manager, General Electric Health Care GEHC
- 2008 – 2008 Bilingual Bicultural BB Advisor (Higher Education), United States Department of State (USDOS)
- 2007 - 2008 Associate Professor, Curtin University of Technology (Aus. Univ. in Miri, MY)
- 2004 – 2008 Consultant & Management, Software Design Ltd., Auckland, NZ
- 2001 - 2006 Senior Research Scientist & Teaching, Dept. of Chemical & Materials Eng., Univ. of Auckland, Auckland, NZ
- 2002 - 2005 Post Doc Fellow & Post Graduate Teaching, New Zealand Foundation of Research Science & Technology, Wellington, NZ
- 1990 – 1991 Lecturer of Mathematics and Computer Programming, Chemistry Dept., College of Women, Univ. of Tikrit, Iraq
- 1983 – 1990 Senior Research Fellow & Head of Solar Physics Laboratories, Solar Energy Research Center, Iraqi Scientific Research Council, Baghdad, Iraq
- 1978 – 1981 Research Fellow, Iraqi Atomic Energy Agency (I.A.E.A.), Baghdad, Iraq.

SCIENTIFIC PROGRAM COMMITTEE OF INT. CONFERENCES 2018-PRESENT

- June 2020 Member of the Scientific Program Committee of the International Conference and Expo on Food Technology and Probiotics, Montreal, Canada.
<http://outlookconferences.com/food-technology-2020/committee.php>

- April 2020 Member of the Scientific Program Committee of the 2nd International Conference on Bioinformatics and Data Analysis (ICGDA 2019), France. <http://icgda.org/com.html>
- April 2020 Member of the Scientific Program Committee of the 3rd International Conference on Software and Services Engineering (ICSSE 2020), France. <http://www.icsse.org/com.html>
- April 2020 Member of the Scientific Program Committee of the 8th World Conference on Information Systems and Technologies (CIST 2020), Montenegro. <http://worldcist.org/index.php/committees>
- April 2020 Member of the Scientific Program Committee of the Asia-Pacific Conference on Robotics, Automation and Communication Engineering (RACE 2020), Berlin, Germany. <http://www.apcrace.org/com.html>
- March 2020 Member of the Scientific Program Committee of the 4th International Conference on Computer Systems and Communication Technology (ICCSCT 2020), China. <http://iccsct.org/committee.html>
- Feb. 2020 Member of the Scientific Program Committee of the 4th International Conference on Virtual and Augmented Reality Simulations (ICVARS 2020), Australia. <http://icvars.org/com.html>
- Jan. 2020 Member of the Scientific Program Committee of the 3rd International Conference on Algorithms, Computing and Systems, Rabat, Morocco. <http://aeccc.org/committee.html>
- Sept. 2019 Member of the Scientific Program Committee of the 8th International Conference on Engineering and Innovative Materials (ICEIM 2019), Tokyo. <http://www.iceim.org/com.html>
- Sept. 2019 Member of the Scientific Program Committee of the International Conference on Engineering Education and Innovation (ICEEI 2019), Seoul, South Korea. <http://www.iceei.net/com.html>
- June 2019 Member of the Scientific Program Committee of the 9th International Workshop on Computer Science and Engineering (WSCE 2019). Honk Kong <http://www.wcse.us/com.html>
- May 2019 Member of the Scientific Program Committee of the International Conference on Food and Biosystems Engineering (I.C. FaBE) 2019, Greece. www.fabe.gr

- April 2019 Member of the Scientific Program Committee of the 7th World Conference on Information Systems and Technologies, World CIST19, Galicia, Spain. <http://www.worldcist.org/2019/index.php/committees>
- March 2019 Member of the Scientific Program Committee of the 2nd International Conference on Geoinformatics and Data Analysis (ICGDA, 2019). Prague, Czech Republic. <http://icgda.org/com.html>
- March 2019 Member of the Scientific Program Committee of the International Conference on Big Data and Education (ICBDE 2019), University of Greenwich, London, UK. <http://www.icbde.org/com.html>
- March 2019 Member of the Scientific Program Committee of the 2nd International Conference on Software and Services Engineering (ICSSE 2019), Prague, Czech Republic. <http://www.icsse.org/com.html>
- Feb. 2019 Member of the Scientific Program Committee of the 3rd International Conference on Virtual and Augmented Reality Simulations (ICVARS 2019). Perth, Australia. <http://icvars.org/com.html>
- Jan. 2019 Member of the Scientific Program Committee of the 3rd International Conference on Algorithms, Computing and Systems (ICACS), Rabat, Morocco. <http://www.icacs.org/committee.html>
- Jan. 2019 Member of the Scientific Program Committee of the African Electronics, Computer and Communication Conference (AECCC 2019), January, Morocco. <http://aeccc.org/committee.html>
- June 2018 Member of the Scientific Program Committee of the 8th International Workshop on Computer Science and Engineering (WCSE 2018), Bangkok. <http://www.wcse.us/com.html>
- Dec. 2018 Member of the Scientific Program Committee of the 6th International Conference on Environment Pollution and Prevention (ICEPP 2018), 9-11 December, Brisbane, Australia. <http://www.icepp.org/>

HIGH REPUTABLE JOURNAL'S REVIEWS 2018-PRESENT









- 04-09-2019 Review to the Journal of Food and Bioprocess Technology/ Springer
- 13-08-2019 Review to the Journal of Environmental Engineering Science/ Mary Ann Liebert Inc.
- 09-08-2019 Review to the Journal of Clean Technologies and Environmental Policy/ Springer Journal Impact: 2.337

05-08-2019 Review to the Journal of Food and Bioprocess Technology/ Springer
30-07-2019 Review to International Journal of Environmental Science and
Technology/ Springer Journal Impact: 2.037
25-07-2019 Review to the Journal of Applied Energy/ Elsevier Journal Impact: 7.9
13-07-2019 Review to the Journal of Food Science/ Wiley
06-07-2019 Review to the Journal of Clean Technologies and Environmental Policy/
Springer Journal Impact: 2.337
21-06-2019 Review to the Journal of Environmental Engineering Science/ Mary Ann
Liebert Inc.
16-06-2019 Review to the International Journal of Energy and Water Resources/
Springer
07-06-2019 Review to the Journal of Clean Technologies and Environmental Policy/
Springer Journal Impact: 2.337
17-05-2019 Review to the Journal of Food and Bioprocess Technology/ Springer
24-04-2019 Review to the International Journal of Environmental Science and
Technology/ Springer Journal Impact: 2.037
22-04-2019 Review to the Journal of Food Science/ Wiley
13-04-2019 Review to the International Journal of Energy and Water Resources/
Springer
04-04-2019 Review to the International Journal of Environmental Science and
Technology/ Springer Journal Impact: 2.037
17-03-2019 Review to the Journal of Energy Efficiency/ Springer
28-02-2019 Review to the International Journal of Environmental Science and
Technology/ Springer Journal Impact: 2.037
26-02-2019 Review to the Journal of Applied Energy/ Elsevier Journal Impact: 7.9
12-02-2019 Review to the International Journal of Environmental Science and
Technology/ Springer Journal Impact: 2.037
17-01-2019 Review to the International Journal of Energy and Water Resources/
Springer
06-01-2019 Review to the International Journal of Energy and Water Resources/
Springer
02-11-20019 Review to the Journal of Clean Technologies and Environmental Policy/
Springer Journal Impact: 2.337

- 20-10-2018 Review to the International Journal of Environmental Science and Technology/ Springer Journal Impact: 2.037
- 02-10-2018 Review to the Journal of Clean Technologies and Environmental Policy/ Springer Journal Impact: 2.337
- 15-09-2018 Review to the Journal of Applied Energy/ Elsevier
- 14-09-2018 Review to the International Journal of Environmental Science and Technology/ Springer Journal Impact: 2.037
- 12-09-2018 Review to the Journal of Clean Technologies and Environmental Policy/ Springer Journal Impact: 2.337
- 29-08-2018 Review to the International Journal of Environmental Science and Technology/ Springer Journal Impact: 2.037
- 26-07-2018 Review to the International Journal of Environmental Science and Technology/ Springer Journal Impact: 2.037
- 22-06-2018 Review to the Journal of Clean Technologies and Environmental Policy/ Springer Journal Impact: 2.337
- 25-05-2018 Review to the Journal of Applied Energy/ Elsevier Journal Impact: 7.9
- 29-04-2018 Review to the Journal of Applied Energy/ Elsevier Journal Impact: 7.9
- 10-01-2018 Review to the Journal of Applied Energy/ Elsevier Journal Impact: 7.9

Peer review summary

VERIFIED REVIEWS

 (17) Applied Energy WOS	 (11) Food and Bioprocess Technology WOS
 (10) International Journal of Environme... WOS	 (9) Clean Technologies and Environmen... WOS
 (4) International Journal of Energy and Water... WOS	 (3) Environmental Engineering Science WOS
 (3) Journal of Food Science WOS	 (1) Energy Efficiency WOS

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PRESENTATIONS & CONFERENCES ATTENDANCE (1998-Present)

- Presenting a paper at the 8th International Conference on Engineering and Innovative Materials (ICEIM 2019), September 6-8, 2019 / Tokyo, Japan

- Presenting paper at the 11th International Conference on Computer Modelling and Simulation ICCMS 2019, Melbourne, Australia.
- Presenting paper at the 2nd International Conference on Graphic and Signal Processing (ICGSP 2018).
- Presenting paper at the International Conference on Computer and Automation Engineering (ICCAE 2018) in Australia Feb. 2018.
- Presenting paper at the International Conference on Software and Services Engineering (ICSSE 2018), Prague.
- Presenting paper at the International Conference on Communication, Management and Information Technology (ICCMIT 2018). 2-4 April 2018, Spain.
- Presented 2 papers at the International Conference on New Trends in Computing Sciences (ICTCS 2017). Princess Sumaya University for Technology, Amman – Jordan, October 11 – 13, 2017.
- Presented 3 papers at the International Conference on Technology and Innovation, Management and Entrepreneurship TIME2017 May 21-22, 2017 Amman, Jordan.
- Presented 2 papers at The World Congress on Engineering Science and Technology WCEST, Malaysia 22-26 March 2017.
- Presented 3 papers at the 3rd International Congress on Technology, engineering and Science ICONTES, Kuala Lumpur, Malaysia Feb 09-10, 2016.
- Presented 3 papers at the International Conference 18 May – 2015 On “International Conference on Entrepreneurship in Management, Education, Science, Computing and Technology 2015” (ICEMESCT – 2015) Istanbul – Turkey.
- Presented a paper at the 7th International Conference on Environmental and Computer Science (ICECS 2014), Paris, France, September 15-16, 2014.
- Presented a paper at the 1st International Conference & Exhibition on the Applications of Information Technology in Developing Renewable Energy Processes and Systems, IT-DREPS 2013 - Amman, Jordan 29 -31 May 2013
- Presented 2 papers at the International Conference on Renewable Energy and its Future in the Arab World 2013 ICREFAW 2013, Amman, Jordan.
- Presented 3 papers at the Second International Chemical Engineering Conference, University of Jordan, Amman, Jordan, 11-13 Oct. 2010.
- Presented a paper at the International Chester Food Science and Technology meeting (ICFST). 22-26 March 2010, Chester, UK.

- Expanding Academic Collaboration and Institutional Linkage between the United States and Iraq Conference and Training Workshop, Institute of International Education (Washington, DC, USA), Erbil, June 27-29, 2012.
- Standard of Quality Assurance and Accreditation in Higher Education Conference and Training Workshop, Institute of International Education (Washington, DC, USA), January 29-31, 2010.
- Models and Trends in Contemporary Higher Education Conference, Institute of International Education (Washington, DC, USA), Erbil, June 22-24, 2011.
- Presented a paper two papers at the 2nd International Chemical Engineering Conference, October 12-13, 2010, University of Jordan, Amman, Jordan
- Leadership in Higher Education Workshop, Institute of International Education (Washington, DC, USA), June 20-21, 2010.
- Communication and Presentation Workshop, Institute of International Education (Washington, DC, USA), June 12-13, 2010.
- Presented lectures to the Institute of International Education Scholarship, Washington, DC, USA. Recorded to the Ministry of Higher education in Iraq, June 2010.
- Quantitative Methods and Data Analysis, Colombia University, Institute for Social and Economic Research and Policy, Amman, January 2010.
- E-Learning, Information Technology Center at the Royal Scientific Society, January 2010, Amman, Jordan.
- Research Proposal- Writing and Professionalization Workshop, the American Academic Research Institute in Iraq (TAARII), January 7-8, 2010.
- Presented a paper at the 2nd IFST Conference 2010. University of Chester, SciComm Center for Science Communication, March 22-24, 2010, UK.
- “Energy Efficiencies; a Strategic Agenda for Government and Industry. International Workshop of the Energy Charter Secretariat and the Jordan National Energy Research Center, with the support of the Government of the Netherlands, November 9, 2009, Amman, Jordan.
- The Post-War Reconstruction and Development Unit (PRDU), the University of York. UK, June 2009, Amman- Jordan.
- Presentation and communication conducted Patricia Kantor, UN Consultant, N.Y. June 2009, Amman, Jordan

- Presented a paper at the Fourth International Conference on high pressure bioscience & biotechnology (HPBB2006) Tsukuba, Japan, September 25-29, 2006.
- Presented a paper at 2005 IFT Annual Meeting, July 15-20, Annual Meeting in Chicago USA and CHEMECA 2005
- Presented a paper at the 2005 CHEMICA Conference, September 2005, Melbourne, Australia.
- Presented a paper at the 2004 CHEMICA Conference, September 27-29, 2004, Sydney, Australia.
- Presented a paper at the 2nd IFCCW, 14-17 September 2003, Sydney, Australia.
- Presented a paper at 3rd ICCFD (International Conference in the Computational Fluid Dynamics), July 2004, Toronto, Canada.
- Presented two papers at the Joint Conference SCENZ/SMNZI/FEANZ 2004, University of Waikato, July 2, 2004.
- Presented a paper at the International Congress on Engineering ICEF9, March 7-11, 2004, France
- Presented 3 papers at the CHEMICA 2003 Conference, Sept.-Oct. 2003, Adelaide, Australia.
- Presented a paper at the NZIFST – DIANZ Conference, June 25-27, 2003, Rotorua, New Zealand.
- Presented a paper at the Second International Symposium on Applications of Modelling as an Innovative Technology in the Agri-Food Chain, December 9-13, 2001, Palmerston North, New Zealand.
- Attended a course in Mixing Processes, October 2001, the University of Auckland.
- Presented a paper at the 6th World Congress of Chemical Engineering Conference, September 23-27, 2001, Melbourne, Australia.
- Presented a paper at the 8th International Congress on Engineering and Food, April 2000, Pueblo, Mexico.
- Presented a paper at the NZIFST/MIRINZ Joint Conference, 2000, Auckland, New Zealand.
- Presented a paper at the CHEMICA 2000 Conference, July 9-12, 2000, Perth, Western Australia.
- Presented a paper at the CHEMICA 99 Conference, September 26-29, 1999, Newcastle, Australia.

- Presented a paper at the FST World Congress, October 3–8, 1999, Sydney, Australia.
- Presented a paper at the CHEMICA 98 Conference, September 28-30, 1998, Port Douglas, Australia, No. 358.

ACTIVITIES IN PROCESSING AND FOOD ENGINEERING (from 1998)

- Developed a computer model (*for the first time*), for high pressure processing to study the natural convection currents at early stages of compression and to predict the temperature and pressure distribution in a 3-D cylinder during non-thermal sterilization of liquid using CFD. The work is presented in July 15-20 in the annual meeting of International Food Safety & Quality Conference in Chicago USA, CHEMECA 2005, Sept., Australia, and *Journal of Food Engineering*, 80(20070, 1031-1042.
- Developed a computer model (*for the first time*), for the high pressure processing to predict the temperature and pressure distribution in a 3-D cylinder during non-thermal sterilization of solid-liquid food using CFD. The work is presented in July 15-20 in the annual meeting of International Food Safety & Quality Conference in Chicago USA, and CHEMECA 2005, Sept., Australia, and *Journal of Food Engineering*, 80(20070, 1031-1042.
- Developed a computer model (*for the first time*) for heat transfer to predict the temperature distribution in a 3-D can during thermal sterilization of liquid food using CFD), *Journal of Food Engineering*, 51 (2002), 77-83.
- Developed a computer model (*for the first time*) for heat & mass transfer in a 3-D pouch, a newly designed shape used currently in canning industry, using CFD. *Journal of Food Engineering*, 48 (2001), 147-156, *The Phoenixes Journal*, 12(3), 293-305, and presented in CHEMICA 2000 International Conference, Perth, Australia.
- Developed a computer model (*for the first time*) for heat & mass transfer to predict temperature distribution, bacteria deactivation, and vitamins destruction in a can during thermal sterilization of liquid food using CFD. *Journal of Food Engineering*, 42(1999), p207-214, *The Phoenixes Journal*, 12(3), 1999, 251-277, *Journal of Process Mechanical Engineering*, 2001, 215(E1). This work is also presented in several International Conferences, and University of Paris presented this work in the France Thermal Society meeting in May 2000.

- Developed a computer model (*for the first time*) for heat & mass transfer to predict temperature distribution, bacteria deactivation, and vitamins destruction in a 3-D pouch during thermal sterilization of liquid food using CFD. *Journal of Food Engineering*, 51 (2002), 221-228, special issue on “Applications of CFD in the Agri-Food Industry”, *Computers and Electronics in Agriculture*, 34 (2002), 129-143, UK.
- Published in International Journals and Conferences over than 90 papers in the field of Thermal and Non-Thermal Sterilization, Heat & Mass Transfer, Processing Engineering and Numerical Simulations and Computational Fluid Dynamics, Environmental Engineering and Measurements, and Solar Energy.
- Attended and presented several papers in different International Conferences in USA, UK, New Zealand, Australia, Canada, Malaysia, Mexico, Japan, Taiwan, Turkey and Jordan.
- Attended a course in Mixing Processes, October 2001, The University of Auckland.
- Reviewer to the following Journals: Official Journal of the European Federation of Chemical Engineering, Institution of Chemical Engineers, IChemE, Journal of Food Engineering and Journal of Food Microbiology and reviewer to CHEMICA 2005 Conf., Australia.

ACTIVITIES IN SOLAR ENERGY & ENVIRONMENT TECH. AND MANAGEMENT

- ***Activities in Solar Energy & Environment***
 - Senior Research Fellow & Head of Solar Physics Laboratories (Feb. 1983–March 1990), Solar Energy Research Centre (SERC), Iraqi Scientific Research Council (SRC), Baghdad, Iraq.
 - Established and in charge of the first advanced Solar Physics Laboratory in the Solar Energy Research Centre. It was the first lab in the region working under laser and computer control.
 - Trained on advanced solar laboratory equipment (above) worked under laser and computer control for environmental measurements, Germany, 1985.
 - Conducted advance research work in Photovoltaic Solar Cells and Environment. Technology.
 - Published more than 70 papers in National and International Journals and Presented Papers in National & International Conference in different fields of Photo-

voltaic Applications, Solar Physics, Environmental Measurements, and Dust Measurements.

- Attended a training course in Physics, Material Science & Renewed Energies at the International Centre for Theoretical Physics, Trieste, Italy, 1989.
- Attended a training course in Physics & Material Science at the International Centre for Theoretical Physics, Trieste, Italy, 1987.
- Attended a dialogue symposium with university professors on "New and Renewed Energies", Scientific Research Council, Baghdad, Iraq, 1987.
- Attended the first course for "Physical Applications of Solar Energy", Solar Energy Research Centre, Scientific Research Council, Baghdad, Iraq, September 1986.
- Attended the first symposium on the "Application of Solar Cells", October 1985.
- Attended the New and Renewed Energies Conference & International Exhibition, LA, USA, 1984.
- Attended and presented several papers in different International Conferences in USA, New Zealand, Malaysia, Taiwan, Turkey, Iraq, and Jordan.
- Supervised summer training (Solar Energy and Environments Measurements) for the Iraqi Universities and Institutes students from 1983 to 1990.
- Cooperated with the Iraqi Space Research Centre in the field of Solar Physics Measurements, Baghdad, Iraq, 1987.
- Cooperated with the Iraqi Meteorology Establishment in the field of Environmental Measurements, Baghdad, Iraq, 1986.
- Cooperated with the Establishment of Technical Industries- Al Mansour Unit in the field of manufacturing photo-voltaic solar cells with the cooperation of a French Photovoltaic Company, Baghdad, Iraq, 1983, and studied the need of PV electric solar panels for Iraq, Baghdad, Iraq, 1983.
- Presented several seminars and presentations in Iraq, USA, Italy, New Zealand, and Jordan in the applications of Photovoltaic Solar Cells and Dust Measurements.

MISCELLANEOUS

- Attended a course in the "Numerical Analysis Applications in FORTRAN Language", Continued Education Department, University of Technology, December 1985.

- Attended a course in “Laser in Theory & Application”, Continued Education Department, University of Technology, Baghdad, Iraq, March 1985.
- Attended a course in “Operations Research”, Arab Physicists & Mathematicians Union, Baghdad, Iraq, October, 1983.
- Attended a course in “Computer Applications in the Engineering Designs (CAD/CAM)”, Ministry of Industry & Minerals, Baghdad, Iraq, May 1983.

CITATIONS

- Google Citation > 1500
- Scopus Citation > 680
- Who’s Who in Science and Engineering, 7th Edition, 2003-2004 and 23rd Edition in 2005 & 2006. The Chronicle of Higher Achievements, NJ, USA.
- Outstanding Scientist by IBC, Cambridge CB2 3QP England.
- Great Minds of 21st Century to the accomplishments, ideas and contribution to the field of Science, ABI, North Carolina 27622 USA.

REFERENCES

Professor Xiao Dong Chen

Chair of Chemical Engineering,

Department of Chemical Engineering, Monash University, Building 36, Clayton Campus, Wellington Rd, Melbourne, VIC 3800 Australia

Ph: +61-3-9905-9344

Fax: +61-3-9905-5686

Email: dong.chen@eng.monash.edu.au

Previously, Chair at Department of Chemical & Materials Engineering

Professor Gustavo V. Barbosa-Canovas

Professor of Processing Engineering & Director, Center for Non-Thermal Processing, Washington State University

Consultant for the United Nations (FAO)

Associate Researcher for the United Nations “PEDECIBA”

Consultant of several companies in the United States

Editorial Board of several International Journals

Biological System Engineering Department

Washington State University

P.O. Box 6120

Pullman, WA 99164-6120 Phone: 509-335-6188

Fax: 509-335-2722 E- Mail: barbosa@mail.wsu.edu



THE UNIVERSITY OF AUCKLAND

THIS IS TO CERTIFY THAT
Abdul Ghani Abdul Aziz Abdul Ghani

has been admitted to the degree of

DOCTOR OF PHILOSOPHY
in Chemical and Materials Engineering

Given under the Seal of the University of Auckland
on Fourteenth day of September 2001



J. S. ...
CHANCELLOR

[Signature]
VICE-CHANCELLOR

[Signature]
REGISTRAR



THE UNIVERSITY OF AUCKLAND

UNIVERSITY PRIZE

FOR BEST DOCTORAL THESIS IN THE FACULTY
OF

Engineering

IN THE YEAR 2001

Awarded to

Abdul Ghani Abdul Aziz Abdul Ghani

[Signature]
VICE-CHANCELLOR

[Signature]
Dean of Faculty

The Marquis Who's Who Publications Board

Certifies that

Abdul Aziz Abdul Ghani

is a subject of biographical record in

Who's Who in Science and Engineering
Seventh Edition
2003-2004

inclusion in which is limited to those individuals who have demonstrated outstanding achievement in their own fields of endeavor and who have, thereby, contributed significantly to the betterment of contemporary society.



[Signature]
Publisher

Publications:

CITATIONS

- Who's Who in Science and Engineering, 7th Edition, 2003-2004 and 23rd Edition in 2005 & 2006. The Chronicle of Higher Achievements, NJ, USA.
- Outstanding Scientist by IBC, Cambridge CB2 3QP England.
- Great Minds of 21st Century to the accomplishments, ideas and contribution to the field of Science, ABI, North Carolina 27622 USA.

Google Citation 1542

<https://scholar.google.com/citations?user=YWI45-QAAAAJ&hl=en&cstart=40&pagesize=20>

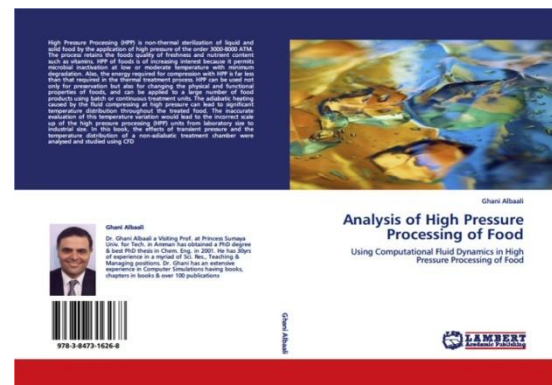
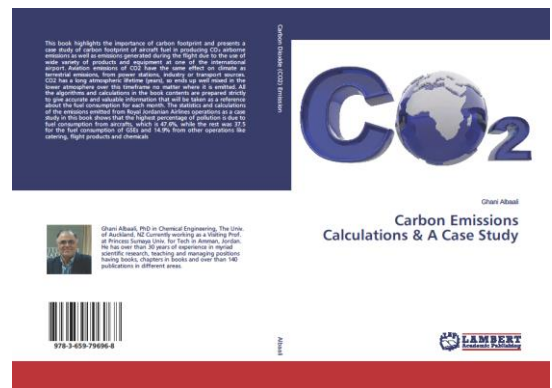
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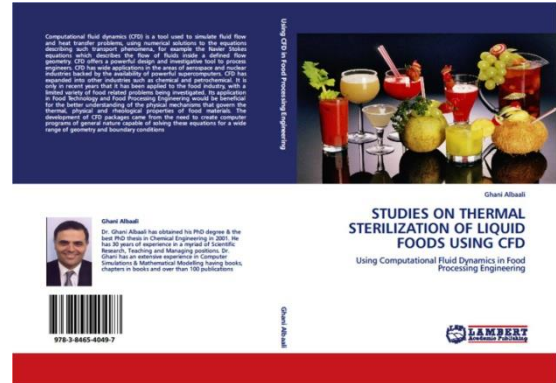
Scopus Citation over 687

Books

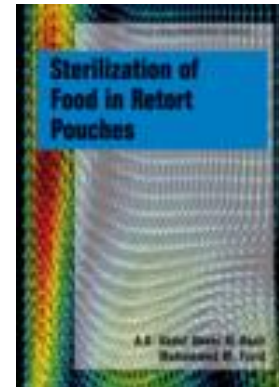
- Ghani (2016) "Carbon Emission Calculations and A Case Study". Lambert Academic Publishing, Germany, ISBN 978-3-659-79696-8.
- A. Ghani (2012) "Analysis of High Pressure Processing of Food". Lambert Academic Publishing, Germany, ISBN 978-3-8473-1626-8.



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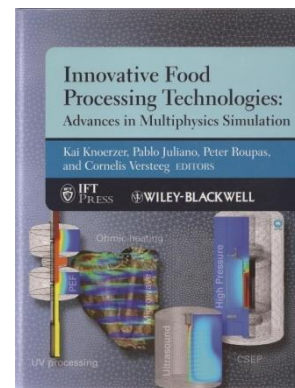


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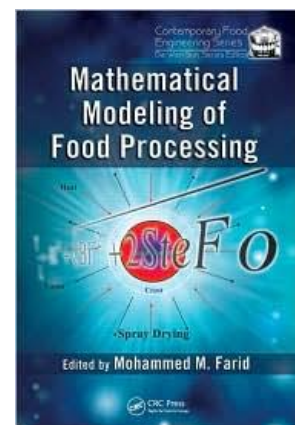


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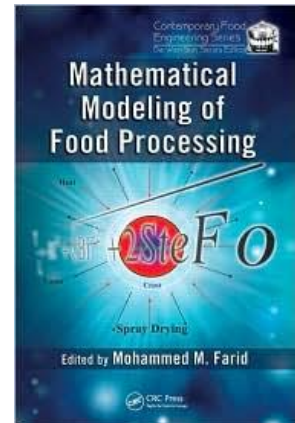
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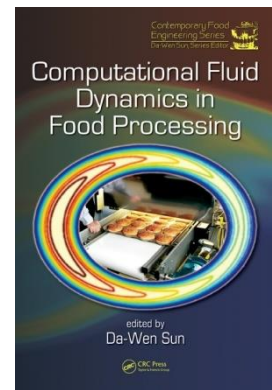
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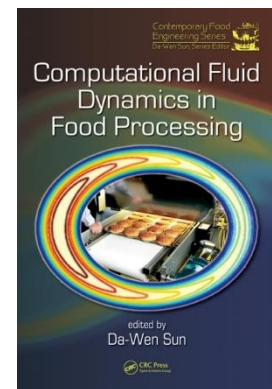
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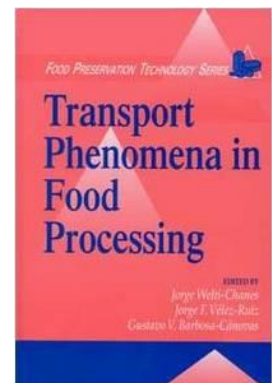
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