

C.V



Name: Basma Abbas Abdulmajeed

Specialization: Chemical Engineering

Position: Faculty member

Scientific Degree: Staff member, Editor in Chief of the Journal of Engineering

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Academic Qualifications

B.Sc., University of Baghdad, College of Engineering, Chemical Eng. Dept., 1979

M.Sc., University of Baghdad, College of Engineering, Chemical Eng. Dept., 1996

Ph. D., University of Baghdad, College of Engineering, Chemical Eng. Dept.,
2002

Careers

Asst. engineer, College of Engineering, 1979-1996

Member of teaching staff, College of Engineering, 1996 till now

Head of Chem. Eng. Dept., College of Engineering, 2009-May 2014

Editor in Chief of the Journal of Engineering, College of Engineering, 2016 till
now

Courses taught in the Chemical Engineering Department

Properties of Eng. Materials, 1996-1998

Engineering Statistics, 1996-1998

Chem. Eng. Economics, 1996-1998

Mathematics, 2004

Physical Chemistry, 2002-2013

Heat Transfer, 2014-till now

Unit operations, 2011-2013

Heat transfer – M Sc, 2011-till now

Renewable Energy-Ph D, 2015-2016

Statistical Thermodynamics-Ph D, 2014-2015

Nanotechnology-Ph D, 2017- till now

Supervision of graduation projects of undergraduate students, 1996-

Thesis supervision

M Sc

Dynamics of a single condensing two-phase bubble, 2006

Numerical analysis of the droplet combustion process for two types of hydrocarbon fuels using different combustion models, 2008

Numerical simulation of heat transfer through falling liquid film on heater surface using three cases of thermal model, 2008

Study of the vibrational control of the neutralization process, 2008

Improvement of some polymers used in drug delivery, 2010

Experimental study on eucalyptus oil extraction using different solvents, 2012

Shell and double concentric tubes heat exchanger calculations and analysis, 2013

Synergistic effect of alcohol and potassium iodide on the kinetics and inhibition of mild steel corrosion in 1M hydrochloric acid, 2015

Entransy Dissipation and entropy generation of shell and double concentric tubes heat exchanger, 2016

Effect of local fillers on mechanical and thermal properties of polyvinyl chloride, 2016

Ph D

Performance of the solar adsorption refrigeration system under various conditions and parameters for Iraq climate, 2013

Removal of cadmium from wastewater by electro-deposition on stainless steel concentric tubes bundle, 2013

Leaching of Iraqi Akashat phosphate ore by organic and non-organic acids

Leaching of Iraqi Akashat phosphate ore by organic and non-organic acids, 2014

Treatment and reuse of Alahdab Iraqi oilfield water, 2014

Wastewater treatment using successive electrochemical approaches, 2016

Occurrence of emerging contaminants in Shatt Al - Arab and separation by new adsorbent, 2016

Synthesis and characterization of TiO_2 nanocatalyst for desulphurization without UV irradiation, 2017

Study and analysis of Shell and double concentric tubes heat exchanger using different nanofluids, 2016

Conferences participation

Fifth Conference of College of Eng., 2003

Sixth Conference of College of Eng., 2009

7th Jordan International Chemical Engineering (JICHE07), 2014

1st International Conference on Recent Trends of Engineering Sciences and Sustainability, 2017

Scientific Activities:

A committee with Ministry of Electricity

A committee with Ministry of Higher education and scientific research for scientific instruments

Catalyst studies with Ministry of Oil-Representative of the Ministry of Higher Education

Certificate of completion – CSP Chem. Safety and Security Officer Training, Sponsored by the USA

Member of the promotion committee in the Al-Khawerezmi College

Ex-member of the promotion committee in the College of Engineering

Participation in the examination committees of the postgraduate students

Continuous learning

Seminars committee of undergraduate students

Seminars committee of postgraduate students

Participation in the examination committees of the postgraduate students

Ex - Member of the promotion committee in the college

Member of the Consulting Engineering Bureau in the College of Engineering University of Baghdad

Teaching staff representative of the University of Baghdad

Member of postgraduate examination students in the University of Baghdad and other universities

Reviewer of IEEE Conferences

Reviewer of the Cogent Engineering

Fields of Interest

Heat transfer, electrochemistry, nanotechnology applications, transport phenomena, oil extraction, water treatment, renewable energy applications

Publications

30 papers in different subjects of interests