

Chemical and Petroleum Engineering

Year 2009	
<i>Conference Papers 2009</i>	
1.	Abbaszadegan, S., Al-Marzouqi, A.H., Salem, A.A., Amin, A., "Physicochemical Characterization of Safranal- β -cyclodextrin Inclusion Complexes Prepared by Supercritical Carbon Dioxide and other Conventional Methods", The 24th International Symposium on Pharmaceutical and Biomedical Analysis (PBA 2013), June 30-July 3, 2013, Bologna, Italy.
2.	Al Nakoua, M. A. and M. H. El-Naas, Methane Reforming Reactions in Small Channels, <i>International Conference on Chemical, Biological & Environmental Engineering (CBEE 2009)</i> , Singapore 2009.
3.	Al-Marzouqi, A.H., Awad, S., Hassan, A.H., "Clove extracts prepared by supercritical CO ₂ and their anti-cancer activity", 57th International Congress and Annual Meeting of the Society For Medicinal Plant and Natural Product Research, August 16-20, 2009, Geneva, Switzerland.
4.	Al-Marzouqi, A.H., Azzam, A.A., Zekri, A.Y., "Supercritical Fluid Extraction of Hydrocarbons from Soil", The 4th Joint KISR-JCCP Environment Symposium, February 2-4, 2009, Kuwait.
5.	Al-Zuhair S., Kinetics of Heterogeneous Enzymatic Hydrolysis of Cellulose. 3 rd Int. Conference on Modeling, Simulation and Applied Optimization, 2009 Sharjah, U.A.E
6.	El-Naas M.H., S. Al-Zuhair, A. Al-Lobaney, S. Makhoulf, Treatment of Refinery Wastewater by Electrocoagulation. <i>10th Annual UAE University Research Conference</i> , 2009, Al-Ain, UAE
7.	El-Naas, M. H., An Active Learning Approach to Teaching Water Desalination". <i>International Conference on Education, Research and Innovation</i> , Madrid, Spain 2009.

8. El-Naas, M. H., S. Al-Zuhair, S. Abdulla, and S. Makhoulf, Phenol Bioremoval Using Spouted Bed Bioreactor, <i>The 8th World Congress of Chemical Engineering</i>, Montreal 2009.
9. Ghasem, G., M. Al-Marzouqi, and M. H. El-Naas, Teaching Chemical Engineering Processes Simulation, <i>International Conference on Education, Research and Innovation</i>, Madrid, Spain 2009.
10. Ghasem, N.M., A. W. Lee, M. A. Hussain , Effect of operating conditions on the stability of the multizone circulating reactor used for olefin polymerization, proceedings of the Third International Conference on Modeling, Simulation and Applied Optimization Sharjah, UAE, January 20-22 2009
11. Ghasem, N.M., M. H. Al-Marzouqi, M.H. El-Naas, Simulation of CO₂ Capture from Flue Gases in Hollow Fiber Membrane, The Tenth Annual U.A.E. University Research Conference, 13-16th April, 2009
12. Ghasem, N.M., Mohamed Al-Marzouqi, Use of gPROMs in solving chemical engineering problems. Proceedings of ICERI2009 Conference. 16th-18th Nov 2009, Madrid, Spain. ISBN: 978-84-613-2955-7.
13. Ghasem, N.M., Mohamed H. Al-Marzouqi, Muftah H. El-Naas. Synthesis of various polymeric adhesives using fatty acid and diamines, The Tenth Annual U.A.E. University Research Conference, 13-16th April, 2009.
14. Ghasem, N.M., Synthesis of various polymeric adhesives using fatty acid and diamines under vacuum operating pressures, The Tenth Annual U.A.E. University Research Conference, 13-16th April, 2009
15. El Keblawy, A., Rao, M.V., Al-Marzouqi, A.H., Al Neyadi, S.S.A., “Germination Ecology of Indigenous Cyperus Conglomeratus Seeds: a Sand Dunes Binder”, The Tenth Annual UAE University Research Conference, April 2009, Al-Ain, U.A.E.
16. El-Naas, M. H., S. Al-Zuhair, Amal Lobani, and S. Makhoulf, Treatment of Refinery

Wastewater by Electrocoagulation, UAEU Research Conference, Al-Ain, 2009. .
17. Emadi, F., Awad, S., Al-Marzouqi, A.H., Rizvi, T.A., Al-Marzouqi, A.H., “Anti-Cancer Compounds within the Clove Extract”, The Tenth Annual UAE University Research Conference, April 2009, Al-Ain, U.A.E.
18. Ghasem, N., Mohamed Al-Marzouqi, and Muftah El-Naas, “Teaching chemical engineering processes simulation using gPROMs software”, International Conference of Education Research and Innovation (ICERI 2009), 16-18, November, 2009, Madrid, Spain.
19. Ghasem, N., Mohamed Al-Marzouqi, Muftah El-Naas, “Effect of temperature and shear rate on PVDF solutions viscosity”, 10th UAEU Annual Research Conference, April, 2009, Al-Ain, UAE.
20. Ghasem, N., Mohamed Al-Marzouqi, Muftah El-Naas, “Simulation of CO ₂ Capture from Flue Gases in Hollow Fiber Membrane Contactor with Amine Solutions”, 10th UAEU Annual Research Conference, April, 2009, Al-Ain, UAE.
21. Jobe, B., Afifi, H., Kassama, L., Al-Marzouqi, A.H., “Application of Response Surface Methodology and Central Composite Rotatable Design for Optimization of Supercritical Fluid Extraction of Lipids from Date Pits”, 9th International Symposium on Supercritical Fluids, May 18-20, 2009, Bordeaux, France.
22. Nakoua, M. A. and M. H. El-Naas, Characterization of Thin Film Ni/Al ₂ O ₃ Catalysts for Use in Plate Reactors, The 10th UAEU Annual Research Conference, Al-Ain, April 2009
23. Papadopoulou S. K., Anastasios Kypriotis, Ioannis Karapanagiotis, Ioannis Zuburtikudis and Costas Panayiotou, (2009), "Efficacy of hydrophobic polymeric coatings and superhydrophobic nanoparticle based composite films for the protection of stone", 25th PanHellenic Conference on Solid State Physics & Materials Science, pg. 208, 20-23 September 2009, Thessaloniki, GREECE

24. Abu-Eishah, S.I. “Utilization of Salinity-Gradient Solar Ponds in Production of Fresh Water and Solar Salt from Inland and Coastal Areas”, Renewable Energy Workshop, Dubai June 1, 2009.
25. Abu-Eishah, S.I., Al Mansouri, H.A., “Assessment of Favorable Conditions and Potentials of Salinity Gradient in Solar Ponds (SGSPs) and the Production of Solar Salt along Abu Dhabi Coasts”. 10th Annual Research Conference (ARC10) of UAE University, April 13-16, 2009.
26. Al Neyadi, S.S.A., Rao, M.V., Al-Marzouqi, A.H., El Keblawy, A., “Composition and Quality of Cyprus Conglomeratus Seeds Obtained from the Sand Dunes of UAE”, The Tenth Annual UAE University Research Conference, April 2009, Al-Ain, U.A.E.
27. Al-Attar, H., “An experimental study on spontaneous capillary imbibition in representative carbonate cores from UAE,” The Tenth Annual UAE University Research Conference held in Al-Ain, UAE, April 13 – 16, 2009.
28. Al-Marzouqi, A.H., Awad, S., Hassan, A.H., “Clove extracts prepared by supercritical CO₂ and their anti-cancer activity”, 57th International Congress and Annual Meeting of the Society For Medicinal Plant and Natural Product Research, August 16-20, 2009, Geneva, Switzerland.
29. Al-Marzouqi, A.H., Azzam, A.A., Zekri, A.Y., “Supercritical Fluid Extraction of Hydrocarbons from Soil”, The 4th Joint KISR-JCCP Environment Symposium, February 2-4, 2009, Kuwait.
30. Al-Marzouqi, M., "Modeling of CO₂ transport through hollow fiber Membrane Contactors" UAEU Specialty Symposium on Carbon Management, Al-Ain, 2009.
31. Al-Marzouqi, M. H. El-Naas, and Rami Faiz, Modeling of CO₂ Transport through Hollow Fiber Membrane Contactors, UAEU Specialty Symposium on Carbon Management, Al-Ain, 2009.
32. Al-Marzouqi, M and Rami Faiz, “Simultaneous removal of CO₂ and H₂S from

natural gas in membrane contactors using carbonate solution: For industrial application” 10th UAEU Annual Research Conference, April, 2009, Al-Ain, UAE.
33. Azzam, A.A., Al-Marzouqi, A.H., Zekri, A.Y., “Remediation of Hydrocarbons from Contaminated Sediment Using Supercritical Carbon Dioxide”, The Tenth Annual UAE University Research Conference, April 2009, Al-Ain, U.A.E.
34. El Keblawy, A., Rao, M.V., Al-Marzouqi, A.H., Al Neyadi, S.S.A., “Germination Ecology of Indigenous Cyperus Conglomeratus Seeds: a Sand Dunes Binder”, The Tenth Annual UAE University Research Conference, April 2009, Al-Ain, U.A.E.
35. El-Naas, M. H., A. H. Al-Marzouqi and O. Chaalal, CO ₂ Capture and Storage through Reactions with Seawater, UAEU Specialty Symposium on Carbon Management, Al-Ain, 2009.
36. El-Naas, M. H., S. Al-Zuhair, Amal Lobani, and S. Makhlouf, Treatment of Refinery Wastewater by Electrocoagulation, UAEU Research Conference, Al-Ain, 2009. .
37. Emadi, F., Awad, S., Al-Marzouqi, A.H., Rizvi, T.A., Al-Marzouqi, A.H., “Anti-Cancer Compounds within the Clove Extract”, The Tenth Annual UAE University Research Conference, April 2009, Al-Ain, U.A.E.
38. Ghasem, N., Mohamed Al-Marzouqi, and Muftah El-Naas, “Teaching chemical engineering processes simulation using gPROMs software”, International Conference of Education Research and Innovation (ICERI 2009), 16-18, November, 2009, Madrid, Spain.
39. Ghasem, N., Mohamed Al-Marzouqi, Muftah El-Naas, “Effect of temperature and shear rate on PVDF solutions viscosity”, 10th UAEU Annual Research Conference, April, 2009, Al-Ain, UAE.
40. Ghasem, N., Mohamed Al-Marzouqi, Muftah El-Naas, “Simulation of CO ₂ Capture from Flue Gases in Hollow Fiber Membrane Contactor with Amine Solutions”, 10th

UAEU Annual Research Conference, April, 2009, Al-Ain, UAE.
41. Jobe, B., Afifi, H., Kassama, L., Al-Marzouqi, A.H., “Application of Response Surface Methodology and Central Composite Rotatable Design for Optimization of Supercritical Fluid Extraction of Lipids from Date Pits”, 9th International Symposium on Supercritical Fluids, May 18-20, 2009, Bordeaux, France.
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43. Tsimpliaraki A., I. Tsvintzelis, I. Zuburtikudis, S.I Marras, L. Papadopoulou, C. Panayiotou, (2009), “Porous microcellular nanocomposites of poly(DL-lactic acid)/organically modified montmorillonite – The role of alkylammonium type and its cation concentration during the filler’s modification”, in Abstract Book of the 6th International Conference on Nanosciences & Nanotechnologies(NN09), (pg216), 13-15/7/2009, Thessaloniki, GREECE
44. Tsimpliaraki A., I. Tsvintzelis, S.I Marras, I. Zuburtikudis, C. Panayiotou, (2009), "Organomodification of nanoclays and its role on the porous structure of polymer nanocomposites produced by supercritical CO ₂ ", in Abstract Book of the XXV PanHellenic Conference on Solid State Physics and Materials Science, pp 312, 20-23/9/2009, Thessaloniki, GREECE
45. Zuburtikudis I., S.I. Marras, E. Panayotidou and K. Tornikidou, (2009), "Biodegradable Poly(3-hydroxybutyrate)/Layered Silicate Nanocomposites through melt intercalation", in Book of Abstracts of COST Action 868: Biotechnology and Biopolymers in Textile packaging, Cosmetics and Medical Applications, 19-20/2/2009, Istanbul, TURKEY.
46. Al-Darmaki, N., B. Al-Duri, T. Lu, R.C. D. Santos, J.B. Harris, T.L.F Favre and K. Bhaggan, “Phase Equilibria of Squalene, Oleic Acid and Palm Olein in Supercritical

Carbon Dioxide ”, *Chemical Engineering Congress*, Montreal Canada, August 2009.

Book Chapters 2009

1. Zaidi, J. S. M., M. Abdur Rauf, Fuel Cell Fundamentals, In *Polymer Membranes for Fuel Cells*. S. M. Javaid Zaidi, T. Matsuura (Eds.) Springer US, 2009

Patents 2009

1. Marzouk, S, Mohamed H. Al-Marzouqi. "APPARATUS FOR H₂S DETERMINATION IN GAS STREAMS ", US patent application number: 2010-45429 2009.