

Hassan Pahlavanzadeh

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Education

- 1 BSc/BA : Chemical Engineering, Tehran University, Tehran, Iran, Iran, 1981
- 2 MS : Chemical Engineering, University of Ottawa, Ottawa, Canada, 1987
- 3 PhD : Chemical Engineering, University of Leeds, Leeds, U.K, 1989
My fields of studies are “Heat Transfer, Energy Recovery and Simulation of Separation Processes , Drying, Gas Solubility in liquid Solvents”. The Title of my PhD thesis is: “Heat Transfer Studies in Packed Bed Systems”

Books

- 1- 1998, *Drying: Principles, Application and Design*, Publication by Tarbiat Modarres University, Tehran, Iran,
Pahlavanzadeh, H., “Drying: Principles, Application and Design”, Farsi translation of the book entitled “Drying: Principles, Application and Design” by: C. Strumilo and T. Kudra, A Publication by Tarbiat Modarres University, Tehran, Iran, 1998.

National Journals

- 1- H. Pahlavanzadeh, 1988, 'Simulation of Packed Bed Performance by Using a Transient Mathematical Model', *3 rd Annual Iranian Chemistry and Chemical Engineering Congress, Zahedan*, pp.
- 2- H. Pahlavanzadeh and A. Shabani, 2001, 'Consideration of Beard Cooking Via Microwave Baking in Comparison with Conventional Baking', *Iranian Journal of Energy, Tehran, Iran*, pp.

International Journals

- 1 Pahlavanzadeh, Sadre Ameli, Yousefi, using heatpipe to make isotherm condition in catalytic convertors of sulfuric acid plants, *J of Heat and Mass Transfer*, 2017, pp.1-8
- 2 Pahlavanzadeh, Mandegari, Farzad, Angrisani, Study of purge angle effects on the desiccant wheel performance, 2017, *J of Energy Conversion and Management*, 2017, Vol 137, pp.12-20.
- 3 Pahlavanzadeh, Rahmati-Abkenar, Manteghian, Experimental and theoretical investigation of methane hydrate induction time in the presence of triangular silver nanoparticles, *J of Chemical Engineering Research and Design*, 2017
- 4 Hassan Pahlavanzadeh, Habib Allah Shirazizadeh, Hamid Bakhshi, Volume expansion and vapour-liquid equilibrium of toluene and ethanol with carbon dioxide at high pressures for the selection of optimum operational condition in the GAS process, 2017, pp. 1-12.
- 5 Pahlavanzadeh, Jamil panah, Kheradmand, Thermal conductivity and electrical conductivity of iron oxide with cloud fractal structure, *J of Heat and Mass transfer*, 2016, 1-12
- 6 Pahlavanzadeh, Bakhshi, Shirazizadeh, Experimental measurement and phase equilibria calculation for ternary systems of carbon dioxide+ toluene+ naphthalene and carbon dioxide+ ethanol+ acridine, applicable for fine particle production in GAS process, *J of Thermochemica Acta*, 2016, Vol 638, pp.69-79.
- 7 Pahlavanzadeh, Rezaei, Khanlarkhani, Manteghian, H. Mohammadi, Kinetic study of methane hydrate formation in the presence of copper nanoparticles and CTAB, 2016, pp.803-810
- 8 Pahlavanzadeh, Esmaili, Rahbar, Ayatollahi, Investigation of streaming potential coupling coefficients and zeta potential at low and high salinity conditions: Experimental and modeling approaches, *Journal of Petroleum Science and Engineering*, 2016, Vol 145, pp.137-147.
- 9 H Pahlavanzadeh, A Golchoobi, Molecular simulation, experiments and modelling of single adsorption capacity of 4A molecular sieve for CO₂-CH₄ separation, *J of Separation Science and Technology*, 2016, Vol 51, pp.2318-2325.
- 10 Askari Zadeh Mahani, Manteghian, Pahlavanzadeh, Synthesis of silver nanoparticles by gelcasting using a low toxic monomer and optimization of gelation time using the Taguchi method, *J of Particulate Science and Technology*, 2016, pp.1-6.
- 11 Pahlavanzadeh, Khanlarkhani, H Mohammadi, Clathrate hydrate formation in (methane, carbon dioxide or nitrogen+ tetrahydropyran or furan+ water) system: Thermodynamic and kinetic study. *The Journal of Chemical Thermodynamics* 2016, Vol 92, pp 168-174

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- 12 Pahlavanzadeh ,Langroudi, , Nanvakenari ,An Investigation of Heat and Mass Transfer Enhancement of Air Dehumidification with Addition of-Al₂O₃ Nano-Particles to Liquid Desiccant,2016, Vol 13, pp.96-113.
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- 13 Pahlavanzadeh ,Amani, Kazemeini, Hamedanian,Gharibi, Investigation of methanol oxidation on a highly active and stable Pt-Sn electrocatalyst supported on carbon-polyaniline composite for application in a passive direct methanol fuel cell,J of Materials Research Bulletin,2015, Vol 68, pp.166-178.
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- 15 Pahlavanzadeh ,Soleymani, Khani, , Manteghian, Study of cobalt (II) biosorption on Sargassum sp. by experimental design methodology, International Journal of Environmental Science and Technology,2015, Vol 12, pp.1907-1922.
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- 21 Omidvar Langroudi, H Pahlavanzadeh, SM Mousavi, Statistical evaluation of a liquid desiccant dehumidification system using RSM and theoretical study based on the effectiveness NTU model, Journal of Industrial and Engineering Chemistry,2014, Vol 20, pp.2975-2983.
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- 22 H Pahlavanzadeh. Jahanairi. . A Mohammadi. Modelina of CO₂ removal from gas mixture by
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- 24 Pahlavanzadeh, Jahangiri, The Modeling of CO₂ removal from gas mixture by 2-amino-2-methyl-1-propanol(AMP) using the Kent Eisenberg model, *J. of Petroleum science and technology*, (32),pp.1104-1113, 2014.
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- 27 Pahlavanzadeh, Mandegari, A study on the optimization of an air dehumidification desiccant system, *J. of Therm. Sci. and Appl.*, Vol 5, pp. 041002(1-11), 2013.
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Refereed National Conference Proceedings

- 1- H. Pahlavanzadeh and M. R. Lavi 1994, 'Modeling and Heat Transfer Studies in Packed Bed', Second Annual ISME Conference Sharif University of Technology, Tehran, pp.
- 2- H. Pahlavanzadeh and M. R. Lavi, 1994, 'The Effect Of Packed Bed Porosity Non-Uniformity On Their Heat Performance', The First National Chemical Engineering Congress, Tarbiat Modares University, Tehran, Iran, pp.
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- 3- H. Pahlevanzadeh and B. Mokhtarani 1996, 'The Measurement of CO₂ in Ammonia Solution', The Second National Chemical Engineering Congress, Amirkabir University, Tehran, Iran, pp.

- 4- H. Pahlevanzadeh 1997, 'The Heat Recovery in Industrial's Dryers', The First National Energy Congress, Tehran, pp.

- 5- H. Pahlevanzadeh and B. Mokhtarani 1996, 'The Solubility Parameters in NH₃-CO₂-H₂O Systems', The 2rd Annual Iranian Chemistry and Chemical Engineering Congress, Kerman, pp.

- 6- H. Pahlevanzadeh and M. Golijani, 1996, 'The Modeling and Design Of Spray Dryer for the Crystallizing Sodium Meta-silicate Reaction', The 2rd Annual Iranian Chemistry and Chemical Engineering Congress, Kerman, pp.

- 7- H. Pahlevanzadeh and H. Ghasemi 1996, 'The Modeling and Design Of Spray Dryer for the Drying of Single Cell Protein (S.C.P)', The 2rd Annual Iranian Chemistry and Chemical Engineering Congress, Kerman, pp.

- 8- H. Pahlevanzadeh, A. Haghtalab and B. Mokhtarani, 1996, 'The Phase Equilibrium in NH₃-CO₂-H₂O Systems', The Third National Chemical Engineering Congress, Oil University, Ahvaz, Iran, pp.

- 9- H. Pahlevanzadeh, A. Haghtalab and B. Mokhtarani 1998, 'The Solubility Parameters in NH₃-CO₂-H₂O Systems', The Iranian Journal of Chemistry and Chemical Engineering, pp.

- 10- H. Pahlevanzadeh and M. R. Delkhosh 1998, 'The Determination of the Equilibrium Moisture Content and the Kinetics of Pitch Drying', The 13rd Annual Iranian Chemistry and Chemical Engineering Congress, Tarbiat Modares University, Tehran, Iran, pp.

- 11- H. Pahlevanzadeh, A. R. Basiri and M. Zarrabi, 1999, 'The Determination of the temperature Effect on the Kinetics of Grape Drying', The 4nd National Chemical Engineering Congress, Sharif University, Tehran, Iran, pp.

- 12- H. Pahlevanzadeh, A. R. Basiri and M. Zarrabi, 1999, 'The Determination of the Adsorption Equilibrium Moisture Content Isotherms for Grape in 20, 30 centigrade', The 4nd National Chemical Engineering Congress, Sharif University, Tehran, Iran, pp.

- 13- H. Pahlevanzadeh and R. Amini 1999, 'The Solution of the Integrated Equations for the Simulation of Tunnel Dryers', The Forth International Chemical Engineering Congress, Sharif University, Tehran, Iran, pp.

- 14- H. Pahlevanzadeh and J. Kochekezadeh, 2000, 'The Design and Building of the Device for the Determination of Material's Equilibrium Moisture Content', The Forth International Chemical Engineering Congress, Sharif University, Tehran, Iran, pp.

- 15- H. Pahlevanzadeh 2000, 'The Energy Saving Potential in Drying Processes', The Second National Energy Congress, Tehran, Iran, pp.

- 16- H. Pahlevanzadeh and G. R. Pazooki 2000, 'The Determination of the CO₂ Solubility in Polar and Organic Non-Polar Solvents', The Forth International Chemical Engineering Congress, Shiraz University, Shiraz, Iran, pp.

- 17- H. Pahlevanzadeh, K. Salimi and M. Sadrameli, 2000, 'The Mathematical Modeling of the Rotary Cement Furnace with Coating and Ring Materia', The Forth International Chemical Engineering Congress, Shiraz University, Shiraz, Iran, pp.

- 18- H. Pahlevanzadeh and M. Nikookar, 2000, 'The Study of the CO₂ Solubility in Organic Solvents in Temperature Range 10-25 oC', The Forth International Chemical Engineering Congress, Shiraz University, Shiraz, Iran, pp.

- 19- H. Pahlevanzadeh, K. Jafari and A. R. Basiri, 2000, 'The Determination of the Adsorption and Desorption Isotherms of Pistatio in Temperature Range of 15-40 oC', The Forth international Chemical Engineering Congress, Shiraz University, Shiraz, Iran, pp.
- 20- H. Pahlevanzadeh and S. H. Mozaffari, 2002, 'The Performance Optimization of the Rotary Desiccant Dehumidifiers in Air-Conditioning', The First Building Energy Saving Congress, Tehran, Iran, pp.
- 21- H. Pahlavanzadeh, H. Mozaffari, 2002, 'Prediction of Optimum Performance of Rotary Desiccant Dehumidifier', 13th International Symposium of Transport Phenomena (ISTP13), Victoria University, Canada, pp.

Memberships in Societies

- 1- Iranian Institute of Chemical Engineering , -
- 2- National Energy Committee of Islamic Republic of Iran, -
- 3- Iranian Journal of Chemical Engineering, - , I am as a member of the Editorial Board of this Journal.
- 4- Journal of Science and seperation process engineering, - , I am as a member of the editorial board of this journal

Professional Experiences

- 1- Head of the Control Production Section in Niroo Battery Company Tehran Iran, 01/01/1979 - 01/01/1980
- 2- Responsible of the Anilling Section in Iranian Steel Complex Company . Geneva, Italy, 01/01/1981 - 01/01/1982
- 3- Head of Thermokinetics Engineering Group at Tarbiat Modarres Uiversity., 01/01/1993 - 01/01/1995
- 4- Head of Seperation Processes Engineering Group at Tarbiat Modarres University, 01/01/1995 - 01/01/1997
- 5- The Design And Building of the Device for the Determination of Equilibrium Moisture Content, -
- 6- Simulation of the STPP Production, Shiraz Petrochemical Industry, -
- 7- Head of Center of Excellence of Chemical Engineering in Tarbiat Modares University , -
- 8- Head of admission office and enterance exam of Ph.D courses in Tarbiat Modares University,
- 9- Assistant training of chemical engineering faculty.