

DR. MANSOUR KALBASI RESUME

EDUCATIONAL RECORDS :

B.Sc. (Iran)

M.Sc. (England)

Ph.D. (England)

Post.Doc. (England)

EMPLOYMENT AND TEACHING :

Positions in Amirkabir University of Technology:

Full Time Professor of Chemical Engineering Department

Undergraduate courses previously lectured :

Thermodynamics , Mass & Energy Balances, Principles of polymerization engineering,

Chemical engineering principles

Lecturing Postgraduate Courses :

Advanced Drying Phenomena , Advanced Industrial crystallization

Other postgraduate course previously lectured:

Advanced Thermodynamics

Research Fields :

Fuel Cells , NanoFluids

Supervising Postgraduate Research Students

Supervised Undergraduate Research Students previously

SCIENTIFIC SOCIETIES :

Editorial member of Iranian chemical engineering Journal(1999-2007)

Member of Iranian Chemical Engineering Assembly

Member of educational committee in chemical engineering department in amirkabir university of technology (1991-1995)

Member of faculty council of chemical engineering department in amirkabir university of technology

Reviewer in Iranian Chemical Engineering Journal

Reviewer in Iranian Chemistry & Chemical Eng. Journal

Reviewer in Amirkabir Science & Technology Journal

Reviewer in Farayand now Journal

AWARDS :

Chemical Engineering Thermodynamics Book (1991)

Exemplary Professor (2010)

MANAGEMENT/ADMINISTRATION JOBS :

Chairman of Petrochemical group in Chemical Engineering Department (1990-1995)

Chairman of Petrochemical group in Chemical Engineering Department (2006-2008)

Chemical Engineering Department Representative for Book Committee (1999-2008)

Graduate advisor in Chemical Engineering Department

Chemical Engineering Department Representative for Industry - University Relation (2001-2002)

Chemical Engineering Department for Free Courses Representative (2001-2002)

Student course tutor

CONTACT :

E-Mail1: mkalbasi@aut.ac.ir

E-Mail2: mkalbasi2000@yahoo.com

Phone Number : +98(21)64543154

Fax Number : +98(21)66405847

JOURNAL PAPERS :

42-K.Kalantari,M.Kalbasi,M.Sohrabi,S.J.Royae,"Enhancing the photocatalytic oxidation of dibenzothiophene using visible light responsive Fe and N co-doped TiO₂ nanoparticles",Ceramic International Journal , Vol.43,(2017),973-981

41-M.A.MohammadMirzaie,M.Kalbasi,B.Ghobadian,S.M.Mousavi

"Kinetic modeling of mixotrophic growth of *Chlorella vulgaris* as a new feedstock for biolubricant" , Journal of applied phycology , Vol.28,No.5,(2016),2707-2717

40-K.Kalantari,M.Kalbasi,M.Sohrabi,S.J.Royae,"Synthesis and characterization of N-doped TiO₂ nanoparticles and their application in photocatalytic oxidation of dibenzothiophene under visible light",Ceramic International Journal , Vol.42,(2016),14834-14842

39-M.A.MohammadMirzaie,M.Kalbasi,S.M.Mousavi,B.Ghobadian ,

"Investigation of mixotrophic, heterotrophic and autotrophic growth of *Chlorella vulgaris* under agricultural waste medium" , Preparative biochemistry and biotechnology Journal , Vol.46,No.2 ,(2016),150-156

38-M.Alemi,M.Kalbasi,"F.Rashidi, "Improvement of oil production rate using the TOPSIS and VIKOR computer mathematical models",Oil Gas European Magazine,No.4,(2015),205-209

37-M.A.MohammadMirzaie,M.Kalbasi,S.M.Mousavi,B.Ghobadian ,

"Statistical evaluation and modeling of cheap substrate-based cultivation medium of *Chlorella vulgaris* to enhance microalgae lipid as new potential feedstock for biolubricant" , Preparative biochemistry and biotechnology Journal , Vol.46,No.4,(2015),368-375

36-S.H.Fakourian,M.Kalbasi,M.M.Hassani Sadrabadi,"A simple analytical model of a direct methanol fuel cell " , Journal of Fuel Cell Science and Technology" , Vol.12,No.5,(2015),3-7

35-S.S.Azimi,M.Kalbasi,H.R.Sadeghifar, "Sensitivity analysis of Merit function in solving nonlinear equations by optimization", Journal of Optimization Theory and Applications ,Vol.162,No.1,(2014),191-201

34-A.Azari,M.Kalbasi,M.Rahimi,"CFD and experimental investigation on the heat transfer characteristics of Alumina nanofluids under the laminar flow regime",Brazilian Journal of Chemical Engineering,Vol.31,No.2,(2014),469-481

33-N.Ghasemian,C.Falamaki,M.Kalbasi,M.Khosravinab,"Enhancement of the Catalytic Performance of H-Clinoptilolite in Propane-SCR-NO_x Process through Controlled Dealumination"

Chemical Engineering Journal, Vol.252,(2014),112-119

32-M.Alemi,M.Kalbasi,F.Rashidi, "Combustion assisted gravity drainage(CAGD) heavy oil recovery enhancement process",Australian Journal of Basic and Applied Sciences Vol.7,No2,(2013),408-415
Vol.7,No.2,(2013),408-415

31-A.Azari,M.Kalbasi,A.Moazeni,A.Rahman, "A thermal conductivity model for nanofluids heat transfer enhancement",Petroleum Science and Technology,Vol.32,No.1,(2013),91-99

30-S.S.Azimi,M.Kalbasi, "Numerical study of dynamic thermal conductivity of nanofluid in the forced convective heat transfer",Applied Mathematical Modelling,Vol.38,No.4, (2013),1373-1384

29-S.S.Azimi,M.Kalbasi,M.H.Namazighadim, "Effect of nanoparticle diameter on the forced convective heat transfer of nanofluid(Water+Al₂O₃) in the fully laminar region",International Journal of Modeling,Simulation and Scientific Computing,Vol.5,No.3,(2013),1-11

28-N.Ghasemian,C.Falamaki,M.Kalbasi, "Clinoptilolite zeolite as a potential catalyst for propane-SCR-NO_x: Performance

investigation and kinetic analysis",Chemical Engineering Journal,Vol.236,(2013),464-470

27-A.Azari,M.Kalbasi,M.Derakhshandeh,M.Rahimi, "An experimental study on nanofluids convective heat transfer through a straight tube under constant heat flux",Chinese Journal of Chemical Engineering,Vol.21,No.10,(2013),1082-1088

26-A.Azari,M.Kalbasi,M.Derakhshandeh, "An experimental comparison of water based alumina and silica nanofluids heat transfer in laminar flow region"Journal of Central South University of Technology,Vol.20,No1,(2013),3582-3588

25-A.Azari,M.Kalbasi,M.Rahimi, "Numerical study on the laminar convective heat transfer of Alumina/Water nanofluids"Journal of Thermophysics and Heat Transfer,Vol.27,(2013),170-173

24-N.Ghasemian,M.Kalbasi,G.Pazouki, "Experimental study and mathematical modeling of solubility of CO₂ in water: application of artificial",Journal of Dispersion Science and Technology,Vol.34,No.1,(2012),1-9

23-A,Abedini,B.Dabir,M.Kalbasi, "Experimental verification for simulation study of Pt/CNT nanostructured cathod catalyst layer for PEM fuel cell",International Journal of Hydrogen Energy,Vol.30,No.12,(2012),1-12

22-M.Alemi,H.Jalalifar,G.Kamali,M.Kalbasi, "A mathematical estimation for artificial lift systems selection based on ELECTRE model",Journal of Petroleum Science and Engineering,Vol.78,(2011),193-200

21-P.Khorami,M.Kalbasi, "Hydrodesulfurization activity of CoMo catalyst supported on multi wall carbon nanotube (MWCNT): sulfur species study",Journal of Experimental Nanoscience,First,(2011),1-13

- 20-A.Bahramian,M.Kalbasi,"CFD modeling of TiO₂ nano-agglomerates hydrodynamics in a conical fluidized bed unit with experimental validation",Iranian Journal of Chemistry and Chemical Engineering ,Vol.2,No.29,(2010),105-120
- 19-M.kalbasi,M.Khanlarkhani,A.Ahmadpour,"modeling and simulation of alumina drying process in a spray dryer with co-current flow",Iranian Journal of Chemical Engineering,Vol.9,No.49,(2010),94-104
- 18-H.Janmaleki,M.Kalbasi,"Investigations and simulation of droplet average size and drop size distribution produced in liquid-liquid turbulent systems in high steady state dispersed phase percentage ",Iranian Journal of Chemistry and Chemical Engineering ,Vol.29,No.1,(2010),1-13
- 17-M.kalbasi,M.Alemi,"A prediction to the best artificial lift method selection on the basis of TOPSIS model",Journal of Petroleum and Gas Engineering,Vol.1,No.1,(2010),9-15
- 16-E.Zaminpayma,A.Bahramian,M.Kalbasi,H.Erfan Nia"Computer simulation on TiO₂ nanostructure films and experimental study using Sol-Gel method",Journal of Cluster Science,Vol.20,(2009),641-649
- 15-M.Zardoshtizadeh,M.Kalbasi,"A novel analytical analysis of PEM fuel cell", Energy Conversion and Management journal,Vol.51,(2009),241-246
- 14-A.Bahramian,M.Kalbasi,"Influence of Boundary Conditions on CFD Simulation of Gas -Particle Hydrodynamics in a Conical Fluidized Bed Unit",VOL.7,(2009),A60
- 13-J.Khorshidi,M.Kalbasi,M.Sohrabi,F.Zahiri and S.Ashraf , "Catalyst synthesis,construction and modeling fluidized bed reactor for oxidizing methanol to formaldehyde",Sharif Science &Technology Journal,Vol.41,(2008),3-8
- 12-M.Kalbasi,M.Mohomady,"Simulation of spray drying of detergent",Sharif Science &Technology Journal,Vol.41,(2008),27-41
- 11-M. Kalbasi, A. R. Bahramian, J. Khorshidi,"Prediction of minimum spout velocity and moisture distribution of ammonium perchlorate particles in a spouted bed dryer",Iranian Journal of Chemistry & Chemical Engineering , Vol.1, No.26,(2006),113-120
- 10-M.Kalbasi,B.Aliakbary,A.AhmadPour,B.Mirza,"Simulation of calcium carbonate drying process in a spray dryer",Iranian Journal of Chemistry & Chemical Engineering, Vol.5, No.23, (2006)74-80
- 9-J.Khorshidi,M.Kalbasi,M.Sohrabi,A.R.Bahramian,"Catalytic reaction modeling of methanol oxidation to formaldehyde in a fluid bed reactor" ,Iranian Journal of Chemistry & Chemical Engineering, Vol. 25, No.2,(2006),59-64
- 8-J.Khorshidi,M.Kalbasi,M.Sohrabi,"Catalyst Kinetic modeling in fluidized bed reactor for methanol to formaldehyde oxidation",Scientia Iranica Journal ,Vol.41,(2008),8-13
- 7-M.Kalbasi,A.Ahmadpour,"Design and simulation of rocket's thermal reactor liquid fuel",Iranian Chemical Engineering Journal,Vol.3,No.13.,(2005),3-12

6-M.Kalbasi and S.Zarrinabadi,"A mathematical model for calculation of cooling water deposition rate in heat exchangers ",Iranian Chemical Engineering Journal,Vol.3,No.10,(2004),29-32

5-M.Kalbasi,A.Ahmadpour,S. Fallahi,"Reactive distillation tower simulation by simulatannous solution with linearization in ethyl acetate production",Iranian Chemical Engineering Journal,Vol.2,No.8,(2004),14-19

4-M.Kalbasi,"Heat and moisture transfer model for onion drying",Journal of Drying Technology,Vol.21,No.8,(2003), 1575-1584

3-M.kalbasi,K.Tarighati,"Estimation of heat transfer coefficient between a suspended surface and a solid-gas fluidized bed" ,Iranian Chemical Engineering Journal,Vol.1,No.7,(2003),46-51

2- M.Kalbasi,M.R.Mehraban,"Effect of surface water vapour flux on drying of potato",Transactions of Institute of Chemical Engineers,Vol.78,partC,(2000),204-206

1- P.J.Bailes,M.Kalbasi,"Charge measurement andleakage for a single droplet in a liquid-liquid system",Journal of Electrostatics,Vol.10,(1991),81-88

CONFERENCE PAPERS :

59-S.Habibi,M.Kalbasi,"Simulation of two chamber microbial fuel cell(MFC) with nafion membrane",The 4th. International conference on Science & Engineering,ITALY,(2015),1-15

58-R.Nazerifard,M.Kalbasi,"Modeling of polymer fuel cell with tubular shape",The 3rd conference on Hydrogen and fule cell,(2015),1-12

57-M.Owsafi,M.Kalbasi,I.Omidi,"Investigations and simulation of solid acid fuel cell with C₅H₂PO₄ electrolyte"7th national confarence on renewenergy,clean and efficient,(2015),1-10

56-I.Omidi,M.Kalbasi,"Investigations into solid acid fuel cell with hydrogen sulphate electrolyte by the help of 3 dimensional simulation",The 3rd conference on Hydrogen and fule cell,(2015),1-13

55-Z.Mohajeri,M.Kalbasi,"Invbestigations into ionanofluids thermal properties"The first international conference oil,gas & petrochemical industries with focus on sustainable developement,(2015),1-7

54-Z.Mohajeri,M.Kalbasi,"CFD Modeling of forced convective heat transfer of a CNT nanofluid in a circular tube under constant flux",The first international conference oil,gas & petrochemical industries with focus on sustainable developement,(2015),1-11

53-R.Nazerifard,M.Kalbasi,"Modeling of polymeric fuel cell with reforming feed",2nd overall conference on environment , energy and biopadafand,(2014),1-8

52-K.Dalvand,M.Kalbasi,"Kinetic analysis of methanol electro oxidization by platin-ruteniom catalyst on nano carbon tube",National conference on optimization of energy consumption in science and engineering,(2014),1-8

51-K.Dalvand,M.Kalbasi,"Modeling of methanol fuel cell by anode platin-ruteniom catalyst on carbon nano tube base",National conference on optimization of energy consumption in science and engineering,(2014),1-12

50-N.Ghasemian,S.P.Yazdani,M.Kalbasi,G.Pazooki,"Estimation of Solubility of CO₂ in Water With Artificial Neural

Network And Mathematical Modeling",14th Iranian National Chemical Engineering Congress (2012), Code:02160

49-M.Kalbasi,A.Ahmadpour,"Prediction of solids vapour pressure using neural network",14th iranian National chemical engineering congress(2012),Article Code:02129

48-A.Ahmadpour,M.Kalbasi,"Case study of carbon active use in waste treatment of olefin unit in bandar emam petrochemical company",14th iranian National chemical engineering congress(2012), Code:13134

47-N.Ghasemian,M.Kalbasi,"The synthesis of ZnO nanorods in different concentrations of growthsolution and comparison of ZnO nanorods sensitivity with ZnO film",4th international conference on nanostrucure,(2012),1-3

46-M.Saberi,M.Kalbasi,"Numerical study of forced convective heat transfer of nanofluids inside a horizontal tube",7th International chemical engineering congress & exhibition,(2011),1-9

45-M.Saberi,M.Kalbasi,"Prediction of laminar forced convection of zirconia/water nanofluid in a vertical tube",7th International chemical engineering congress & exhibition,(2011),1-8

44-A.Yadi,N.Seraj MaThree dimensional,single phase,constanat and variable temperature of a proton exchange memberane fuel cellhdizadeh,M.Kalbasi,"10th Iranian Aerospace Assemble Conference,(2011),1-9

43-M.kalbasi,S.Manouchejri,A.Ahmadpour,"Investigations into effects of nanomaterials to modify inorganic anti fire coating on vermiculitesupport",1st National conference on Nono Science & Nano Technology,(2011),23

42-A.Azari,M.Kalbasi,"A Model for Heat Conduction Mechanism in Nanofluids",13th Iranian National Chemical Engineering Congress

& 1st International Regional Chemical and Petroleum Engineering,(2011),(2010),1-10

41-M.Kaslbasl,M.Khanlarkhani,A.Ahmadpour,D.Abbaspour,"Modeling and simulation of alumina drying process in spray dryer with co current

flow", CHISA, Czech Republic, (2010), ecce, 1420

40-S.M.Ahmadpour, M.Kalbasi, N.Ghanavati, "investigations into cooling tower water purification by ozonization process", 1st international conference on chiller and cooling tower, (2010)

39-R.Mahmoudi, C.Falamaki, M.Kalbasi, "Desulfurization of transportation fuels (simulated solution and gasoline) with commercial and ion-exchanged X zeolite: Adsorption isotherm and batch adsorption kinetics modeling", 2nd Iran International Zeolite Conference, IIZC, (2010), 1-5

38-F.Owshal, M.Kalbasi, S.Fegghi, "Investigations into exergy of Amirkabir petrochemical Butene1 unit by use of audit energy", 2nd Technical Conference of Thermodynamics, (2009)-A-10-45-1, 1-6

37-A.Bahramian, M.Kalbasi, H.Nazif, I.Khazaei, "Hydrodynamic Characteristics of TiO₂ Nanoparticles in a conical fluidized bed and numerical simulation using CFD modeling", 17th annual(International)Conference on mechanical engineering-ISME2009, (2009), 1-2

36-M.Kalbasi, M.Zardoshtizadeh yazdi, "Three dimensional analytical analysis of proton exchange membrane fuel", 1st National Conference on Hydrogen and fuel cell, (2009), 1-18

35-M.Kalbasi, A.Dalaei, A.Ahmadpour, "Investigation and modeling of simultaneous moisture and heat transfer in Carrot drying", 12th Iranian Chemical Engineering Congress, (2008)

34-M.kalbasi, M.Chavoshi Najafabadi, A.Ahmadpour, "Optimization of heat transfer systems in hydrocracker unit of (Isomax)Arak refinery", 12th Iranian Chemical Engineering Congress, (2008)

33-F.Taghavi, M.Kalbasi, "Optimization of operational conditions to produce p-Amino phenol from nitrobenzene by direct hydrogenation", 12th Iranian Chemical Engineering Congress, (2008)

32-M.kalbasi, M.Madoolibehbahani, A.Ahmadpour, "Simulation of solvent recovery unit to produce TPA of Tondgooyan petrochemical company", 12th Iranian Chemical Engineering Congress, (2008)

31-M.Kalbasi, M.R.Khanlarkhani, A.Ahmasdpour, "Modeling and simulation of drying process of Alumina in spray dryer with co-current flow", 12th Iranian Chemical Engineering Congress, (2008)

30-M.Kalbasi, S.H.Fakourian, M.M.Hassani, "One- dimensional analytical model in the direct methanol fuel cell(DMFC)", ChemOnTube, SPAIN, (2007)

29-M.Kalbasi, M.Farokhshad, A.Ahmadpour, "Modification of 3rd-order SRK equation of state to determine hydrocarbon materials thermodynamics property", 1st Iranian Conference of modern researches in Chemical Engineering, (2007)27-31

28-M.Kalbasi, S.H.Fakourian, M.Hassani, "Analytical model of a direct methanol fuel cell", C&FC, GC-A030, SINGAPOUR, (2007)

27-M.Kalbasi, S.H.Fakourian, M.M.Hassani, "One dimensional analytical model in the direct methanol fuel cell", 8th International Seminar on Polymer Science and Technology, ISPST, (2007)149

- 26-M.Kalbasi,A.Ahmadpour,M.Rezaee,"Simulation of Asaluyeh refinery separation unit by gas absorption in oil method",7th ncces,(2007)
- 25-J.Khorshidi,M.Kalbasi,"Study of methanol to formaldehyde reaction in fluidized bed reactor",12th International Conference on Fluidization,CANADA,(2007)615-622
- 24-M.Kalbasi,A.Ahmadipour, F.Vatur,"Mechanical recovery of polyethylene Terphetalate",2nd Chemical and Industrial Congress,(2006)17
- 23-F.Taghavi,Z. Nooshab,M.Kalbasi,"Optimization of operational conditions of leather decolorization by chlorine drivatives",2nd Chemical and Industrial Congress(2006)70.
- 22-M.Kalbasi,A.Ahmadipour,H.Habibi,F.Khazal,"Elimination of volatile organic biological compounds in waste purification unit of Tondgooyan PetroChem Complex",2nd Chemical and Industrial Congress(2006)16
- 21-A.Ghasemi,M.Kalbasi,"Peng-Robinson equation modification to investigate hydrocarbons by computer software",11th Iranian Chemical Engineering Congress,(2006)81
- 20-M.Kalbasi,A.Ahmadpour,V.Moftakhar,F.Taghavi,"Investigations into PET crystals growth in a fluid bed crystallizer of Tondgooyan petrochemical complex",11th Iranian Chemical Engineering Congress,(2006)678
- 19-F.Taghavi,M.Kalbasi,"Leather decolorination operational conditions optimization by chlorine derivatives",11th Iranian Chemical Engineering Congress,(2006),67
- 18-M.Kalbasi,B.Aliakbari,A.Ahmadpour,B.Mirza,"Calcium carbonate drying process simulation in a spry dryer",6th National Chemical and 5th Petrochemical engineering Congress, (2006)3
- 17-M.Kalbasi,F.Taghavi,A. AhmadPour,S.Ansary,"Modeling of oxygen injection cathods voltage in order to reduce energy consumptions",1st internatnal congress on energy management and planning, (2006)10
- 16-M.Kalbasi and F.Taghavi,"Operational conditions improvements of chlorpars industry electrolysis unit to reduce energy consumptions",1st international congress on Energy Management and Planning,(2006)5.
- 15-M.Kalbasi,A.AhmadiPour,S.Ansarynik,M.Farhan Asady"Investigations into professional health in Industrial periodical job",1st HSE Congress,(2006)74
- 14-M.Kalbasi,A.Ahmadpour,G.BabaAhmadi,N.Abpardeh,"Investigations into dangers analysis process",1st HSE Congress,(2006)148
- 13-M.Kalbasi,A.AhmadPour,S.Ansary Nik,M.Farhan,"The ergonomic role in necessity of job problems observation"1st HSE Congress,(2006)69

- 12-M.Kalbasi,F.Taghavi,Z.Nooshad,"Optimization of energy consumption using oxygen injecting cathods",Chemistry and Industry Congress,(2005)86
- 11-M.Kalbasi,F.Taghavi,"Optimization of operational conditions of chloropars unit",R&D Society of Industry and Mines 5th Congress,(2005)68
- 10-M.kalbasi,A.R.Bahramian,"Hydrodynamics and drying characterisitcs of ammonium perchlorate paticles in a spouted bed dryer",IWSID Symposium,INDIA,(2004),172
- 9-M.Kalbasi,G.R.Rostamikia,B.Mirza,"Imvestigations into the operational variables in Melamine formaldehyde spray drying process ",8th Iranian Chemical Engineering Congress,(2003),354
- 8-M.Kalbasi,S.Sheniamirkhan,"Thermodynamic Models of H₂S - CO₂ gas loading by methyl di ethanolamine (MDEA)",6th Iranian Chemical Engineering Congress,(2001),569-576
- 7-M.Kalbasi ,S.Shehnamirkhan,"Thermodynamic model of H₂S gas absorption by mono ethanolamine(MEA)",6th Iranian Chemical Engineering Congress,(2001),562-567
- 6-M.Kalbasi,M.R.Mehraban,"Investigations into potato drying in constant and falling rates", 5th Iranian Chemical Engineering Congress,(1999),332-338
- 5-M.Kalbasi,"Extraction of acetic acid and benzoic acid by liquid-liquid method",4th Iranian Chemical Engineering Congress,(1998)34-39
- 4-M.Kalbasi,P.J.Bailes,"Investigation into extraction of uranium with tri butyle phosphate in an electrostatic apparatus",4th Iranian Chemical Engineering Congress,(1998)373-378
- 3- M.Kalbasi,J.C.Godfrey,"Investigations into rheological properties of offset printing inks and its carrier",4th Iranian Chemical Engineering Congress,(1998)118-123
- 2-M.Kalbasi,A.Seifollahzadeh,"Determination of (Li-Ca-000) grease heat transfer coefficient in an agitated and jaketted vessel",3rd Iranian Chemical Engineering Congress,(1997)646-649
- 1-M.Kalbasi,A.Nersesian,"Short-oil alkyd resin formulation using alkyd constant",2nd Iranian Chemical Engineering Congress,(1996)466-470

PETROCHEMICAL POLE RESEARCH :

- 1-Determination of urea crystals growth kinetics in cooling crystallizer
- 2-Spray dryer design and investigations into effects of operational conditions to produce melamine formaldehyde powder
- 3-Modeling and simulation of drying process of aluminain in a spray dryer with co-current stream

PUBLISHED BOOKS :

- 7- Principles of water , urban and industrial waste treatment(2011)
- 6-acquaintance with chemical engineering(2010)
- 5-Molecular thermodynamics of fluid-phase-equilibria (solution manual)(2004)
- 4- Chemical engineering thermodynamics , Volume 2, (1998)
- 3-Chemical engineering thermodynamics , Volume 1, (1991)
- 2-Engineering thermodynamics (1990)
- 1-General thermodynamics (1988)

INVENTIONS(PATENTS) :

- 4-A nanocatalyst for hydrodesulphurization and it's production process
- 3-Selection of the most suitable artificial processing method for oil well on the basis of ELECTRE mode
- 2-Procède de fabrication et utilisation d'un nanocatalyseur hydrodesulfuration
- 1-Hydrodesulphurization nanocatalyst, its use and a process for its production