

CURRICULUM VITAE



BAHRAM DABIR

OFFICE ADDRESS:

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EMPLOYMENT OBJECTIVE:

Research and Development in Chemical and Petroleum Engineering, with emphasis on Reservoir Engineering, Environmental Engineering Principles, and Transport Phenomena Modeling.

EDUCATION:

- **Postdoctoral Research (Jan–Jul 1983)** Michigan State University, Turbulence Research Center, East Lansing, MI, USA.
- **Ph.D. in Chemical Engineering (Jan 1983)** Michigan State University, East Lansing, MI, USA. *Dissertation: Mean Velocity Measurements in a 3" Hydrocyclone Using Laser Doppler Anemometry.*
- **M.S. in Chemical Engineering (Jun 1978)** Iowa State University, Ames, Iowa, USA. *Thesis: Precipitation Kinetics of Magnesium Hydroxide in a Scaling System.*
- **B.S. in Chemical Engineering (Jun 1974)** Sharif University of Technology, Tehran, Iran. *Project: Refining Motor Oil.*

EXPERIENCE:

1. Appointed as an Associate Member of the Academy of Sciences of the Islamic Republic of Iran (October 2025)
2. Editorial Board Member of the Amirkabir Scientific Research Journal in the fields of Mechanical Engineering, Electrical Engineering, Civil Engineering, Chemical Engineering, and Applied Basic Sciences in the year 1404.
3. Dean of School of Materials & Advance processes Engineering, Amirkabir University of Technology, since July 2018-2024
4. Head of Petroleum Eng. Dept., Amirkabir University of Technology, Tehran, Iran, since 2014-2018

5. Professor at Amirkabir University of Technology, Chem. & Polymer Eng. Dept., Tehran, Iran, since 1998.
6. Judicial Official Expert in the field of petroleum and petrochemical industries, since 2006
7. Technical protection and safety consulting services in the field of education, since 2007.
8. Technical protection and safety consulting services in the field of evaluation and measurement of chemical hazardous agents, since 2007.
9. Iranian National Standards Organization expert in the field:
 - Develop national standards for chemical and polymer industries.
 - Education and promotion of standards in the field of chemical and polymer industries.
 - Monitor the implementation of standards in the field of chemical and polymer industries (oil products, including fossil fuels and lubricants, decorative and industrial paints, adhesives and resins, polymer products, including rubber, plastic and composite), Since 2012.
10. Approval and certificate to research collaboration with the Ministry of Oil in the field of dynamics reservoir simulation, Black Oil, Compositional and Thermal modeling, since 2011.
11. Member of Scientific promotion committee of Ministry of Science, Research & Technology (MSRT), Iranian Research Organization for Science and Technology (IROST), since 2005 to 2010.
12. Member of Scientific promotion committee of Amirkabir University of Technology, since 2008
13. Chief Executive Officer (CEO) of KGETC Co. (Environmental and HSE Activities in Oil and Gas Industry, and several contract with NIOC), 2005-2007.
14. Chief Executive Officer (CEO) of SIMTECH-Namvaran Consulting Co. (Active in Upstream and Reservoir Engineering Full Field Study, and Full Field Study of More than Seven ICOFC Oil and Gas Field), 2004-2006.
15. Head of Chem. Eng. Dept., Amirkabir University of Technology, Tehran, Iran, since 1988-1991 and 2001-2005.
16. Head of Process Design and Energy Research Center (Conducted More Than 25 Industrial Research Projects Related to Process Design Know-how, Energy Saving and Auditing), 1999-2010.
17. Head of Iranian Association of Chemical Engineering (IACHE), 1990-1996.
18. Associate Professor, Amirkabir University of Technology, Chem. & Polymer Eng. Dept., Tehran, Iran, 1995.
19. Research Deputy of Chem. Eng. Dept., Amirkabir University of Technology, Tehran, Iran, 1991-1994.
20. Assistant Professor, Chem. Eng. Dept., Amirkabir University of Technology, Tehran, Iran, 1985.
21. Project Supervisor, National Iranian Oil Company, Enhanced Oil Recovery Research Center, Tehran, Iran, 1984-1987.
22. Assistant Professor, Isfahan University of Technology, Chem. Eng. Dept., Isfahan, Iran, 1983-1984.
23. Associate Researcher, Turbulence Research Center, Michigan State University, E. Lansing, MI, January-July 1983.
24. Research Assistant, Michigan State University, Taught Mass Transfer, Heat Transfer, and Fluid Mechanics for one year at Michigan State University, 1978-1982.
25. Research Assistant, Iowa State University, 1976-1978.
26. Unit Supervisor, N.I.O.C, Shiraz Refinery, 1997-1976.

SUBJECTS Of RESEARCH TOPICS SUPERVISED:

- Transport Phenomena: **Process modeling, porous media transport, deposition, reservoir simulation.**
- Polymerization Engineering: **Processing, curing technology, polymer modification of bitumen.**
- Environment & HSE: **Safety, hazard assessment, sustainability.**

SUBJECT OF GRADUATE AND UNDER GRADUATE COURSES OFFERED:

- Heat Transfer
- Mass Transfer
- Fluid Mechanics
- Transport Phenomena
- Polymer Processing
- Polymerization Engineering
- Applied Mathematics in Chemical Engineering
- Applied Numerical Method

LIST OF SPONSORS OF RESEARCH FUND:

- Iranian Center Oil Field Company
- National Iranian South Oilfields Company (NIOC)
- Ministry of Science, Research and Technology
- Research Center of Polymer Science and Technology, Iran.
- ChemiDarou Company.
- Enhanced Oil Recovery Research Center, Petroleum Ministry.
- National Gas Company, Petroleum Ministry.
- Ministry of Mine & Metal Industry.
- Tehran Metro Transportation Company.
- Ministry of Road Transportation.
- Kerman Rubber Industry
- National Iranian Petrochemical Company
- National Iranian Oil Company (south and central Co.)

ORGANIZATION:

AICHE (affiliate member), IACHE (Chemical & Polymer Engineering representative)

HONORS:

- Honor certificate in recognition of outstanding academic achievement, College of Engineering, Michigan State University, USA.
- Chemical Engineering Distinguished faculty member in recognition of research activities and academic performances nationwide.
- Selected outstanding professor of chemical engineering by the Academy of Sciences (Islamic Republic of Iran)
- Member of the Academy of Sciences (Chemical Engineering Branch) since 2022

CERTIFICATIONS AND LICENSES

- Judiciary Expert in Petroleum and Petrochemical Engineering since 2007, responsible for training and ranking experts.
- Standard Expert at the National Iranian Standards Organization since 2012.
- Technical Protection and Safety Services Consultant for the Ministry of Labor and Social Affairs in the field of chemical hazard assessment and measurement since 2007.
- Technical Protection and Safety Services Consultant for the Ministry of Labor and Social Affairs in the field of safety training since 2007.

EXECUTIVE POSITIONS

- Project Manager for the establishment of the Oil Flow Assurance Institute at the Faculty of Chemical Engineering, Amirkabir University of Technology. The project proposal was submitted to the Ministry of Oil in 2020, and the first phase was realized after securing funding.
- Project Manager for the establishment of the Catalytic Reforming Institute (CCR) and conducting research and technological studies to achieve the strategic development of technology related to the production of technical knowledge of the catalytic reforming process (CCR), National Iranian Oil Refining and Distribution Company, from 2020 to 2022.
- Project Manager for the Asphaltene section of the Enhanced Oil Recovery project from the Darkhovin oil field, Arvandan Oil and Gas Company, since 2014.
- Dean of the School of Advanced Materials and Processes (Dean of the Faculties of Chemical Engineering, Polymer Engineering, and Textile Engineering) at Amirkabir University of Technology since 2018.
- Head of the Faculty of Petroleum Engineering at Amirkabir University of Technology from 2014 to 2018.
- Head of the Faculty of Chemical Engineering at Amirkabir University of Technology from 1996 to 2000.
- Head of the Faculty of Chemical and Polymer Engineering at Amirkabir University of Technology from 1988 to 1992.
- Head of the Energy and Process Design Research Institute at Amirkabir University of Technology from 1999 to 2010.
- Member of the Supreme Council of Reservoirs at the Ministry of Oil since 2014.
- Member of the Scientific Promotion Committee at Amirkabir University of Technology, in several terms from 2008 to 2023.
- Member of the Scientific Promotion Committee at the Ministry of Science, Research, and Technology and the Iranian Research Organization for Science and Technology.
- Member of the Supreme Planning Council of the Ministry of Science in Chemical Engineering and Head of the Planning Group in Petroleum Engineering.
- President of the Iranian Chemical Engineering Society for two terms from 1988 to 1991 and from 2001 to 2005, organizing several national and international congresses in the fields of chemical engineering, petroleum, and polymer.
- CEO of KGETCCO (executing several contracts with the National Iranian Oil Company in the field of environment and HSE in the oil and gas industry, and several comprehensive reservoir study contracts with the National Iranian Oil Company from 2005 to 2007).
- Senior Researcher in Enhanced Oil Recovery at the Ministry of Oil from 1983 to 1986.
- Process Engineer at Shiraz Refinery, Ministry of Oil from 1973 to 1975.
- CEO of Namvaran Simtec Consulting Engineers (active in reservoir engineering and upstream oil industries, executing more than 7 projects with ICOFC), from 1999 to 2004.

- Official Judiciary Expert, member of the committee for evaluating the qualifications of official judiciary experts in the fields of oil, gas, petrochemicals, and chemical industries since 2006.
- Technical Protection Consulting and Safety Services of the Ministry of Labor and Social Affairs in the field of safety training since 2007."
- "Advisor on Technical Protection and Safety Services to the Ministry of Labor and Social Affairs, specializing in safety training since 2007."
- Standard Expert at the National Iranian Standards Organization since 2012.
- Approved Research Collaborator by the Ministry of Oil in the field of reservoir dynamics simulation, dead and live oil, composite and thermal modeling, since 2011.
- Mentor to at least 60 professors in domestic and international universities in various fields of chemical engineering, petroleum, and polymer.
- Founder of the Energy and Process Design Research Institute at Amirkabir University of Technology.
- Founder and Renovator of several laboratories at the Faculty of Chemical Engineering, Amirkabir University of Technology (Fluid Mechanics Lab, Heat Transfer Lab, Control Lab, Unit Operations Lab, and Research and Educational Lab since 1991).
- Founder of the Upstream Oil Industry Software Computing Center at the Faculty of Petroleum Engineering, Amirkabir University of Technology.

RESEARCH AND CONSULTING COLLABORATIONS WITH INDUSTRIES:

- Research, enhanced oil recovery, distribution, and refining sectors of the Ministry of Oil.
- Petrochemical industries.
- Polymer and tire manufacturing industries.
- Chemical and pharmaceutical industries.
- Polymer Research Center.
- Ministry of Mines.
- Metro Company.
- Establishment and operation of industrial units and activities in the private sector.

NUMBER OF STUDENTS SUPERVISED AS ADVISOR AND CONSULTANT SINCE 1996:

Undergraduate Students: at least 60

Master's Students: at least 248

Ph.D. Students: at least 65

Advisor and Reviewer: 400

INTERNATIONAL AND NATIONAL ARTICLES

At least 360 publication, more than 245 ISI Publication available from "www.scopus.com" and "google scholar Citations"

<https://scholar.google.com/citations?user=UeChgRQAAAAJ&hl=en>

More than 150 official technical registered reports.

INTERNATIONALLY PUBLISHED ARTICLES:

1. M.Zarei, B. Dabir, N. Esmaeilian, D.M. Warsinge, "Biomimetic bumpy and eco-friendly slippery surfaces for enhanced dew and fog water harvesting: Journal of Water Process Engineering, 2025.
2. A.Karimirahnama, M.Mozaffarian, B.Dabir, NE.Amrabadi,"Assessment of simultaneous removal of salt and dye by utilizing capacitive deionization and UV-electro oxidation hybrid process in saline wastewater treatment" Desalination, 2025.
3. SY Masouleh, M Mozaffarian, B Dabir, "Landfill leachate treatment using sequential natural zeolite adsorption and peroxymonosulfate activated by UV/Fe²⁺ system: Effects of main operating parameters and application of fluorescence EEM to monitor organic matters' transformation", Journal of Environmental Chemical Engineering,2024.
4. M.Razghandi, S.A.Madani, C.Ghotbi, SH.Ayatollahi, B.Dabir, A.Hemmati-Sarapardeh, "Effect of asphaltene flocculation size on deposition using a modified quartz crystal microbalance in-house setup and microscopic image analysis: Model oil, inhibitory and nanoparticle solutions case studies", Geoenergy Science and Engineering,2024.
5. G.Kooti, B.Dabir, C.Butcher, R.Taherdangkoo, "A constrained machine learning surrogate model to predict the distribution of water-in-oil emulsions in electrostatic fields", Scientific Reports,2024.
6. S.F.Hosseini, M.Mozaffarian, B.Dabir, H.EA Van den Akker, "A coupled DEM-CFD analysis of asphaltene particles agglomeration in turbulent pipe flow" , Chemical Engineering Journal,2024
7. AR. Mohebi, F.Najafi, M.Mozaffarian, B. Dabir, N.Esmaeilian, "Fluid dynamics and erosion analysis in industrial naphtha reforming: A CFD-DPM simulation approach", Powder Technology, 2024.
8. G. Kooti, B.Dabir, R.Taherdangkoo, C. Butscher , "Modelling droplet size distribution in inline electrostatic coalescers for improved crude oil processing", Scientific Reports,2023.
9. M.A Bagrezaie, B. Dabir, F.Rashidi, A.R. Moazzeni, "Modeling of formation damage during smart water flooding in sandstone reservoirs" Scientific Reports, 2023.
10. AR.G Ghamsari, M.Mohseni, N.Esmaeilian, A.Naderifar, B.Dabir, "Design of a new fountain reactor for contamination degradation using advanced oxidation processes with hybrid techniques and modeling evaluation", Environmental Science and Pollution Research, 2023
11. Marziyeh Salehzadeh, Maen M Husein, Cyrus Ghotbi, Vahid Taghikhani, Bahram Dabir, Investigating the role of asphaltenes structure on their aggregation and adsorption/deposition behavior, Geoenergy Science and Engineering, 2023.
12. A Rezaeipour, B Dabir, M Ahmadi, Data-driven approach to dynamic uncertainty quantification of oil well production: Decline curve analysis and Hidden Markov Model,Geoenergy Science and Engineering, 2023
13. N Esmaeilian, N Rabiei, M Mahmoudi, B Dabir, "Asphaltene Structure Determination: FTIR, NMR, EA, ICP-OES, MS, XRD and Computational Chemistry Considerations", Journal of Molecular Liquids, 2023.
14. L Esfahanizadeh, B Dabir, F Goharpey "c of the flow behavior around a PDC drill bit: effects of nano-enhanced drilling fluids on cutting transport and cooling efficiency" Engineering Applications of Computational Fluid Mechanics 16 (1), 977-994, 2022.
15. E Zeinedini, B Dabir, M Dadvar, "Integrating computational fluid dynamic, artificial intelligence techniques, and pore network modeling to predict relative permeability of gas condensate" Scientific Reports, 12, 21457, 2022/12/12.
16. A Edrisi, M Dadvar, B Dabir, "Predicting Interfacial Tension via the Entrainment Master Curve of a Bubble Rising through the Immiscible Liquids Interface", Chemical Engineering & Technology 45 (12), 2150-2158. 2022/12
17. M Lotfi, AF Chimeh, B Dabir, AH Mohammadi "Computational Fluid Dynamics Modeling of the Pressure Drop of an Iso-Thermal and Turbulent Upward Bubbly Flow Through a Vertical Pipeline Using Population Balance Modeling Approach" Journal of Energy Resources Technology 144 (10), 102102, 2022.
18. M Salehzadeh, MM Husein, C Ghotbi, B Dabir, V Taghikhani, "In-depth characterization of light, medium and heavy oil asphaltenes as well as asphaltenes subfractions" Fuel 324, 124525. 2022.
19. Mohammad Amin Bagrezaie, Bahram Dabir, Fariborz Rashidi, "A novel approach for pore-scale study of fines migration mechanism in porous media" Vol. 216, Num. 110761, Page 1-16, June 2022, journal of petroleum science and engineering
20. S.Yasamani Masouleh, M.Mozaffarian, B.Dabir, S.Fallah Ramezani, "COD and ammonia removal from landfill leachate by UV/PMS/Fe²⁺ process: ANN/RSM modeling and optimization" Vol. 159, Num. 1, Page 716-726, March 2022, journal of process safety and environmental protection.

21. M.Ebrahimian Mashhadi, M.Mozaffarian, M.Mohseni, M.Jafarikojour, B.Dabir, "Evaluation of synergistic effects of coupling capacitive deionization (CDI) and UV oxidation processes for saline water treatment", *Journal of Environmental Chemical Engineering*, Vol. 10, Num. 1, Page 1-13, February 2022,
22. M.Salehzadeh, M.M. Husein, C.Ghotbi, V.Taghikhani, B.Dabir, "An integrated approach for predicting asphaltenes precipitation and deposition along wellbores", Vol. 203, Num. 1, Page 1-13, February 2022, *Journal of petroleum science and engineering*
23. A.Abbasi, B.Dabir, "CellSys: An open-source tool for building initial structures for bio-membranes and drugdelivery systems" Vol. 43, Num. 5, Page 331-339, December 2021, *journal of computational chemistry*
24. M.A.Shojaiepour, F.Rashidi, B.Dabir, M.Amirsardari, "Investigation of Foam Injection Scenarios to Control the Gas Oil Ratio in Carbonate Reservoirs with Permeability Heterogeneity: Simulation of the Process in an Oil Reservoir Sector", *Petroleum Research*, Vol. 31, Num. 4, Page 3-14, October 2021
25. M Shojaiepour, F Rashidi, B Dabir, M Amirsardari. "A treatment protocol for controlling gas oil ratio in heterogeneous carbonate reservoirs by foam injection: Case study simulation", *Journal of Petroleum Science and Engineering*, (2021).
26. M Salehzadeh, MM Husein, C Ghotbi, V Taghikhani, B Dabir. "An integrated approach for predicting asphaltenes precipitation and deposition along wellbores", *Journal of Petroleum Science and Engineering*, (2021), 203,1.
27. MMM Farahi, M Ahmadi, B Dabir. "Model-based multi-objective particle swarm production optimization for efficient injection/production planning to improve reservoir recovery" (2021), *The Canadian Journal of Chemical Engineering*.
28. M Khazayinejad, M Hafezi, B Dabir. "Peristaltic transport of biological graphene-blood nanofluid considering inclined magnetic field and thermal radiation in a porous media", (2021), *Powder Technology*, 384,1.
29. H Bagherzadeh, Z Mansourpour, B Dabir. "Numerical analysis of asphaltene particles evolution and flocs morphology using DEM-CFD approach", (2021), *Journal of Petroleum Science and Engineering*.199,1.
30. R Saghafian Larijani, M Ghadiri, M Hafezi, M Jafarikojour, B Dabir. "Evaluation of mass and photon transfer enhancement by an impinging jet atomization photoreactor for photocatalytic degradation of p-nitrophenol", (2021), *Journal of Photochemistry & Photobiology, a: Chemistry*. 408, 113088.
31. M Shakiba, E Khamsehchi, A Fahimifar, B Dabir. "A mechanistic study of smart water injection in the presence of nanoparticles for sand production control in unconsolidated sandstone reservoirs", (2020), *Journal of Molecular Liquids* 319, 114210.
32. N Esmailian, B Dabir, RMA Malek, M Arami, FM Mazaheri. "Synthesis of an ionic sugar-amino acid-based surfactant in aqueous media", (2020), *Journal of Molecular Liquids* 318, 114269.
33. Z Mansourpour, B Dabir. "Modeling of asphaltene particle size distribution in well using DEM-CFD", (2020), *Journal of Applied Research of Chemical-Polymer Engineering* 4 (2), 69-82.
34. MMM Farahi, M Ahmadi, B Dabir. "Model-based water-flooding optimization using multi-objective approach for efficient reservoir management" (2020), *Journal of Petroleum Science and Engineering*, 107988.
35. M Khodadadi, L Moradi, B Dabir, FM Nejad, A Khodaii. "Reuse of drill cuttings in hot mix asphalt mixture: A study on the environmental and structure performance", (2020), *Construction and Building Materials* 256, 119453.
36. Arash Azamifard, Mohammad Ahmadi, Fariborz Rashidi, Mohammadreza Pourfard, Bahram Dabir. "QuiltEdge: Novel geostatistical workflow for heterogeneous reservoirs with an innovative combination of multi-variable image quilting and edge property concept to model heterogeneity and flow barriers", (2020), *Journal of Petroleum Science and Engineering*.
37. A Azamifard, M Ahmadi, F Rashidi, M Pourfard, B Dabir. "MPS realization selection with an innovative LSTM tool", (2020), *Journal of Applied Geophysics*, 104107.
38. Abdolhossein Hemmati-Sarapardeh, Forough Ameli, Mohammad Ahmadi, Bahram Dabir, Amir H Mohammadi, Leila Esfahanizadeh."Effect of asphaltene structure on its aggregation behavior in toluene-normal alkane mixtures", (2020), *Journal of Molecular Structure*.
39. M Shakiba, E Khamsehchi, A Fahimifar, B Dabir. "An experimental investigation of the proportion of mortar components on physical and geomechanical characteristics of unconsolidated artificial reservoir sandstones", (2020), *Journal of Petroleum Science and Engineering* 189, 107022.
40. SA Hosseini-Kaldozakh, E Khamsehchi, B Dabir, A Alizadeh, Z Mansouri. "Rock wettability effect on Colloidal Gas Aphron invasion near wellbore region" (2020), *Journal of Petroleum Science and Engineering* 189, 106766.

41. M Massah, E Khomehchi, SA Mousavi-Dehghani, B Dabir, HN Tahan. "A new theory for modeling transport and deposition of solid particles in oil and gas wells and pipelines", (2020), International Journal of Heat and Mass Transfer 152, 119568.
42. S Karimi, M Dadvar, B Dabir. "Simulation of blood flow in the abdominal aorta considering penetration into the organs using pore network model", (2020), Journal of Computational & Applied Research in Mechanical Engineering (JCARME).
43. A Azamifard, M Ahmadi, F Rashidi, M Pourfard, B Dabir. "Insights of new-generation reservoir property modeling (MPS methods) in assessing the reservoir performance for different recovery methods", (2020), Arabian Journal of Geosciences 13, 1-14.
44. Mohsen Talebkeikhah, Menad Nait Amar, Ali Naseri, Mohammad Humand, Abdolhossein Hemmati-Sarapardeh, Bahram Dabir, Mohamed El Amine Ben Seghier, "Experimental measurement and compositional modeling of crude oil viscosity at reservoir conditions", (2020), Journal of the Taiwan Institute of Chemical Engineers.
45. M Hafezi, M Mozaffarian, M Jafarikojour, M Mohseni, B Dabir. "Application of impinging jet atomization in UV/H₂O₂ reactor operation: Design, evaluation, and optimization", (2020), Journal of Photochemistry and Photobiology A: Chemistry 389, 112198.
46. A Azamifard, F Rashidi, M Pourfard, M Ahmadi, B Dabir. "Enduring effect of permeability texture for enhancing accuracy and reducing uncertainty of reservoir fluid flow through porous media", (2020), Petroleum Science 17 (1), 118-135.
47. Mohammad Amin Amooie, Abdolhossein Hemmati-Sarapardeh, Kunal Karan, Maen M Husein, Mohamad Reza Soltanian, Bahram Dabir, "Data-driven modeling of interfacial tension in impure CO₂-brine systems with implications for geological carbon storage", (2019), International Journal of Greenhouse Gas Control.
48. R Aminzadeh, M Nikazar, B Dabir, "Determining the occurrence time of different stages of asphaltene aggregation using molecular dynamics simulations", (2019), Petroleum Science and Technology 37 (20), 2101-2107.
49. Milad Razghandi, Abdolhossein Hemmati-Sarapardeh, Fariborz Rashidi, Bahram Dabir, Shahaboddin Shamshirband. "Smart models for predicting under-saturated crude oil viscosity: a comparative study" (2019), Energy Sources, Part A: Recovery, Utilization, and Environmental Effects.
50. A Azamifard, F Rashidi, M Ahmadi, M Pourfard, B Dabir, "Toward more realistic models of reservoir by cutting-edge characterization of permeability with MPS methods and deep-learning-based selection", (2019), Journal of Petroleum Science and Engineering 181, 106135.
51. Abdolhossein Hemmati-Sarapardeh, Mohammad Ahmadi, Forough Ameli, Bahram Dabir, Amir H Mohammadi, Maen M Husein, "Modeling asphaltene precipitation during natural depletion of reservoirs and evaluating screening criteria for stability of crude oils", (2019), Journal of Petroleum Science and Engineering 181, 106127.
52. R Aminzadeh, M Nikazar, B Dabir, "The effect of nonylphenol on asphaltene aggregation: A molecular dynamics approach", (2019), Petroleum Science and Technology 37 (16), 1883-1890.
53. M Jafarikojour, B Dabir, M Sohrabi, SJ Royaei. "Comparison between the performance of an immobilized impinging jet stream reactor and a slurry impinging jet stream reactor for photocatalytic phenol degradation" (2019), Journal of Dispersion Science and Technology 40 (3), 338-345.
54. SA Hosseini-Kalozakh, E Khomehchi, B Dabir, A Alizadeh, Z Mansoori, "Experimental Investigation of Water Based Colloidal Gas Aphron Fluid Stability" (2019), Colloids and Interfaces 3 (1), 31.
55. H Bagherzadeh, Z Mansourpour, B Dabir. "A coupled DEM-CFD analysis of asphaltene particles agglomeration and fragmentation" (2019), Journal of Petroleum Science and Engineering 173, 402-414.
56. Abdolhossein Hemmati-Sarapardeh, Bahram Dabir, Mohammad Ahmadi, Amir H Mohammadi, Maen M Husein. "Modelling asphaltene precipitation titration data: A committee of machines and a group method of data handling" (2019), The Canadian Journal of Chemical Engineering.
57. N Rahmati, MR Rasaei, F Torabi, B Dabir. "Incorporating Gravity Drainage and Reimbibition Mechanisms in Traditional Material Balance Equation for Fractured Oil Reservoirs: Mathematical Modeling and Simulation Analysis" (2019), Journal of Porous Media 22 (3).
58. P Reshadi, H Modarress, B Dabir, S Amjad-Iranagh. "Molecular dynamics simulation for studying the stability of structure H clathrate-hydrates of argon and large guest molecules" (2018), Journal of Dispersion Science and Technology 39 (11), 1572-158.
59. N Esmaeilian, RMA Malek, M Arami, FM Mazaheri, B Dabir. "Environmentally friendly sugar-based cationic surfactant as a new auxiliary in polyacrylonitrile dyeing"(2018), Colloids and Surfaces A: Physicochemical and Engineering Aspects 552, 103-109

60. M Jafarikojour, B Dabir, M Sohrabi, SJ Royae. "Application of a New Immobilized Impinging Jet Stream Reactor for Photocatalytic Degradation of Phenol: Reactor Evaluation and Kinetic Modelling" (2018), *Journal of Photochemistry and Photobiology A: Chemistry*, (2.625), Pp.1-42
61. Keynejad, K., Nikazar, M., Dabir, B., " Diesel desulfurization using an ultrasound-assisted oxidative process". (2018), *Petroleum Science and Technology*, (0.655), PP. 1-8
62. Karkevandi.Takhonch, A., Rostami, A., Hemmati-Sarapardeh, A., Ahmadi, M., Hoseyni, M., Dabir, B. "Modeling minimum miscibility pressure during pure and impure CO₂ flooding using hybrid of radial basis function neural network and evolutionary techniques" (2018), *Fuel*, (4.6), pp. (270-282).
63. Hemmati-Sarapardeh, A., Ameli, F., Varamesh, A., Shamshirband, S., Mohamadi, A., Dabir, B., Toward generalized models for estimating molecular weights and acentric factors of pure chemical compounds, (2018), *International Journal of Hydrogen Energy*, (3.58),99. 1-19.
64. Jafarikojour, M., Dabir, B., Sohrabi, M., Royae, SJ, "Evaluation and Optimization of a New Design Photocatalytic Reactor Using Impinging Jet Stream on a TiO₂ Coated Disc" (2017), *Chemical Engineering and Processing: Process Intensification* (IF 2.234),121, pp.215-223-
65. A Momeni, A., Dadvar, M., Hekmatzadeh, M., Dabir B., "3D pore network modeling and simulation for dynamic displacement of gas and condensate in wellbore region" (2017). *International Journal of Multiphase Flow* (IF:2.509), 97,pp.147-156.
66. Mohammadi, M., Dadvar, M., Dabir, B. "TiO₂/SiO₂ nanofluids as novel inhibitors for the stability of asphaltene particles in crude oil: Mechanistic understanding, screening, modeling, and optimization", (2017). *Journal of Molecular Liquids* (IF:3.648), 238, pp. 326-340.
67. Dargahi-Zarandi, A., Hemmati-Sarapardeh, A., Hajirezaie, S., Dabir B. "Modeling gas/vapor viscosity of hydrocarbon fluids using a hybrid GMDH-type neural network system", (2017). *Journal of Molecular Liquids* (IF:3.648), pp.236, 162-171.
68. Varamesh, A., Hemmati-Sarapardeh, A., Dabir, B., Mohammadi AH. "Development of robust generalized models for estimating normal boiling point of pure chemical compounds", (2017). *Journal of Molecular Liquids* (IF:3.648).
69. Mirzaei, M., Jafarikojour, M., Dabir, B., Dadvar, M., "Evaluation and modeling of a spinning disc photoreactor for degradation of phenol: impact of geometry modification", (2017). *Journal of Photochemistry and Photobiology A: Chemistry* (IF:2.625), 346, pp.206-214.
70. Mohammadi, M., Dadvar, M., Dabir, B., "Application of Response Surface Methodology for Optimization of the Stability of Asphaltene Particles in Crude Oil by TiO₂/SiO₂ Nanofluids under Static and Dynamic Conditions", (2017). *Journal of Dispersion Science and Technology* (IF:1.591).
71. Moradi, S., Mahvelati, EH. Ameli, F., Dabir, B., Rashtchian, D. "Application of population balance equation in modeling of asphaltene particle size distribution and characterization of aggregation mechanisms under miscible gas Injection", (2017). *Journal of Molecular Liquids* (IF:3.648), 232, pp.207-213
72. Reshadi, P., Modarress, H., Dabir, B., Amjad-Iranagh, S. "A study on dissociation of sII krypton hydrate and the effect of hydrocarbon guest molecules as stabilizer by molecular dynamics simulation", (2017). *Phase Transitions* (IF:1.060), pp. 1-15
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100. Naseri, A., Nikazar, M., Dabir, B. Mousavi, Gohari, DSA, "Asphaltene Flocculation Onset Detection With The Image Processing Method", Petroleum Research 19 (60), pp. 3-17 Conference
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102. Dabir, B., Petty, C.A. " laser doppler anemometry measurements of tangential and velocities in a hydrocyclone operating without an air core", 2nd international conference on Hydrocyclones. pp.15-25. (1362).
103. Dabir, B., Petty, C.A. " Flow visualization of coherent structures in a 3 hydrocyclone with 2:1 contraction in the vortex finder", third international symposium of flow visualization. PP. 434-443, (1361).

DOMESTIC CONFERENCE PAPERS:

1. Sanjari.M, Yazdani.KM, Dabir.B., 6th National Conference on Air and Noise Pollution Management, "Numerical Simulation of effects of wind on dust emission by OpenFOAM" (2018).
2. Parya Broomandi, Bahram Dabir, Yousef Rashidi, 6th national conference on air and noise pollution management, "Simulation of mineral dust aerosols from Southwestern Iran", (2018).
3. A.Edrisi, M.Dadvar, B.Dabir, "Modeling of Three-Phase Flow Using Phase Field Method - Investigation of Bubble Movement Interference in Two Immiscible Liquids," 16th Iranian National Chemical Engineering Congress (2018).
4. F.Ameli, B.Dabir, "Development of a Black Oil Simulator Using Intelligent Unstructured Gridding," Pazhuhesh-e Naft (Research in Petroleum), Issue 89, Page 4.(2017)
5. M.Sanjari, K.Yazdani, B.Dabir, "Numerical Simulation of Wind Effects on Dust Dispersion Using OpenFOAM," 6th National Conference on Air and Noise Pollution Management .(2018)
6. H.Ebrahimi, M.Rahmani, B.Dabir, "Removal of Carbon Dioxide and Production of Valuable Products from Flue Gases of Large Industries Using Chemical Looping," 3rd National Conference on Air and Noise Pollution Management (2015)
7. M. Golzari Jalal, F. Zokaee Ashtiani, B. Dabir, R. Veladat, A. Musavi, CFD modeling of flocculation process in microalgal suspensions by implementation of population balance approach, 15th Iranian National Congress of Chemical Engineering (IchEC), (2015)
8. F.Ameli, A.Hemmati-Sarapardeh, B.Dabir, Amir H. Mohammadi, "Application of constraint multivariable search methods for prediction of asphaltene precipitation conditions", third national conference of oil and gas and related industries (2015).
9. N.Mirzakhani, B.Dabir, "Investigation of Production Increase and Effective Parameters in Hydraulic Fracturing Process Using the Adhesive Zone Model," 2nd National Conference on Oil and Gas of Iran (2014).
10. S.Sadeghpour, B.Dabir, M.Zolfaghari, N.Sadeghpour, Optimization of nano-emulsion production in micro-fluidize(1983)d using CCD method, 15th National Iranian Chemical Engineering Congress, National,(2014).
11. P.Broomandi, A.Akherati, B.Dabir, V.Yonesi, H.Sharifi, 3rd conference on air and noise pollution management, Investigating and measurement of particle size distribution and chemical characterization of suspended dust particles in Ahvaz city, National,(2014)
12. P.broomandi, b.dabir, y.Rashidi, H.Sharifi, M.Askari, 3rd conference on air and noise pollution management, Investigating of different scenarios Air Pollution Decreasing in Tehran city Using Combined Model WRF- CAMx, National, (2014)
13. 3rd conference on air and noise pollution management, Modeling of suspended particles, concentration due to dust storms in mega city of Tehran by using WRF/CHEM, National, (2014)
14. 2nd National Iranian Petroleum Conference, Investigating the Increase of Production and effective parameters on the Hydraulic Failure Process Using the Adhesive Region Model, National, (2014)
15. 3rd conference on air and noise pollution management, The removal of carbon dioxide gas and the production of valuable products from the flue gas of large industries using the chemical, cycle National,(2014)

16. 5th National CFD Applications Conference in Chemical Industries and petroleum, Modeling micro-algal flocculation in biological systems, National, (2014)
17. Second Conference of New Technologies in Chemistry and Petrochemistry, Simulation of Moving Bed Alkylation Reactor for Green Gasoline Production, National,(2014)
18. A.Edrisi, B.Dabir, Z.Mansori, 1st National conference on New Technologies in Chemistry & Chemical Engineering, Investigation of rotational chemical systems for hydrogen production along with inherent CO₂ separation, National,(2013)
19. 14th National Iranian Chemical Engineering Congress, Separation of asphaltene from crude oil by using ultrasound,National, (2013)
20. A.Edrisi, A.Shahnazari, B.Dabir, Z.Mansori, 7th National conference on World Environment Day, Simultaneous optimization of three exhaust streams from a rotating chemical cycle National, (2013).
21. A.Edrisi, B.Dabir, Z.Mansori, 2nd National conference on New Technologies for Environmental Pollution Control, Investigating the types of fuel and oxidants that can be used in chemical rotational systems of power generation and hydrodynamics National,(2013).
22. M.Papen, B.Dabir, "Introduction of Natural Gas Storage Methods with a Focus on Selecting the Most Suitable Method for Iran," National HSE Conference with a Focus on Upstream Oil and Gas Industries (2013)
23. Z.Panahi, B.Dabir, "Separation of Asphaltenes from Crude Oil," 14th National Chemical Engineering Congress of Iran .(2012)
24. B.Dabir, Z.Mansouri, R.Sepahi Samian, H.Mehrali, "Investigation of the Possibility of Increasing Speed in Natural Gas Pipelines Based on Erosion-Corrosion Rates," 4th Conference on Oil and Gas Pipelines. (2012)
25. 14th National Iranian Chemical Engineering Congress, Thermodynamic study of the reaction of nickel oxide reduction with methane as a new method for synthesis gas production, National (2012).
26. 3rd National CFD Applications Conference in Chemical Industries and petroleum, CFD simulation of multiphase mass separation during an injection in a continuous environment, National, (2011).
27. M.Parvini, B.Dabir, "CFD Simulation of Multiphase Mass Separation During Injection in a Continuous Medium," 3rd National Conference on CFD Applications in Chemical and Petroleum Industries. (2011)
28. 13th National Iranian Chemical Engineering Congress, An Environmentally friendly Combined NO_x and CO₂ Removal from Flue Gas Mixture using DEA Solution, National,(2010).
29. F.Ameli, F.Farzi, B.Dabir, "Modeling of adsorption of acid gases in MDEA solution in pharyngeal-thoracic compressors by using film theory", 12th National Iranian chemical engineering Congress, National,(2008).
30. 12th National Iranian Chemical Engineering Congress, Investigating the Performance of the Reactor System (Razer) of the Catalytic Failure Process, National,(2008)
31. 11th National Iranian Chemical Engineering Congress,Simulation of the discontinuous hydroxide crystallization process using a population balance model,National,(2006)
32. Rohani, Y., Dabir, B., Panjeh shahi, M.H., "Aplication of Pinch Technology in Air Pollution Modeling", Nashrieh Shimi va Mohandesi Shimi Iran (NSMSI). 25(11). pp.87-94. (2006).
33. 11th National Iranian Chemical Engineering Congress, Investigating the effect of different parameters on the separation of suspended particles in a diesel / water emulsion using flotation and polyethylene coagulants, National,(2006).
34. 6th Iranian seminar on polymer science and technology (ISPST 2003), Monte-Carlo Modeling of free Radical polymerization, National, (2003)
35. 6th Iranian seminar on polymer science and Technology (ISPST 2003), Study on particle formation in emulsion copolymerization of styrene/ butadiene by Mont-Carlo method part(I), National, (2003)
36. 8th National Iranian Chemical Engineering Congress, Identification of heavy oil cuts, National, (2003)
37. ISPST 2003, Study of particle formation in emulsion copolymerization of styrene/butadiene by Monte Carlo method part (I), National, (2003)
38. 10th National Iranian Chemical Engineering Congress, Mathematical modeling of enhanced oil recovery by using microbial method, National, (2005)
39. 7th National Iranian Chemical Engineering Congress, Preparation of polymerization vinyl chloride polymerization software,National,(2002)
40. 7th National Iranian Chemical Engineering Congress, Simulation of Co-polymerization of styrene-butadiene emulsion by Monte Carlo method, National, (2002)
41. 13th National Iranian Food Industry Congress, Emulsion coatings for fruits and the necessity to use them in Iran, National, (2002)

42. 6th National Iranian Chemical Engineering Congress, Multi-block networking for solving Navier stokes equations, National, (2001)
43. 6th National Iranian Chemical Engineering Congress, The Eulerian model of Gas-Liquid Flow in the mixed fermenters, National,(2001).
44. M.Nik Azar, M.Haghighi, B.Dabir, "Study and Formulation of Fluoride Gel," Basic Sciences - Alzahra University (2001).
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46. M.Nik Azar, M.Rahmani, B.Dabir, "Methods for Removing Sulfur Dioxide from Combustion Gases," Iranian Petroleum Association, Issue 52 (1999).
47. Dabir, B., Alaie. S.M., Badii. K.H., " Study of the conventional models for simulation of air pollution dispersion and the introduction of AIRPOL Software, based on eulerian model", pp.273-284. (1998).
48. 4th National Iranian Chemical Engineering Congress,Power consumption of different mixers in mixing viscoelastic fluids,National,(1998).
49. National Food Industry Congress, Computer Designing of Whey Dryer, National,(1998)
50. 2nd National Iranian Chemical Engineering Congress : Software for calculating the characteristics of virtual components of oil mixtures by using semi-continuous, thermodynamics,National,(1996).
51. 2nd National Iranian Chemical Engineering Congress,Linear stability analysis of multilayer viscoelastic fluids,National,(1996).
52. 2nd National Iranian Chemical Engineering Congress, Investigating the phenomenon of drying particles in a floating bed, National,(1996).
53. 2nd National Iranian Chemical Engineering Congress, Dynamic simulation of Rubber Curing National,(1996).
54. 2nd National Iranian Chemical Engineering Congress, Dynamic Modeling and Numerical Simulation of the Extrusion Process (Die Part) with an Emphasis on Polyethylene Rheology, National,(1996).
55. 1st National Iranian Chemical Engineering Congress, Flash pyrolysis of used tires, National, (1994).
56. The 1st National Forest and Industry Congress, Experimental Study of Rapid Pyrolysis of Beech Wood, National, (1994).
57. 1st National Iranian Chemical Engineering Congress, Mathematical modeling of solubility of gas in crude oil by injection into porous and non-porous media under the influence of molecular diffusion, National, (1994).

TECHNICAL REPORT RELATED To OIL And GAS:

1. Asphaltene Identification and Effective Factors on its Deposition, Sponsor of Research Fund ,Enhanced Oil Recovery Research Center.
2. Experimental Results of Asphaltene Deposit Effects, Sponsor of Research Fund, Enhanced Oil Recovery Research Center.
3. Asphaltene Deposition Percolation Mechanism in Artificial Porous Media at Low Pressure by Use of Stochastic Pure Birth Process Theory ,Sponsor of Research Fund, Enhanced Oil Recovery Research Center.
4. Stochastic Pure Birth Process Model for Fluid Flow of Asphaltene Content Crude in Porous Media, Sponsor of Research Fund, Enhanced Oil Recovery Research Center.
5. Experimental Study of Growth Kinetic and Performance of Asphaltene and asphalte in Precipitated State at Atmospheric Pressure, Sponsor of Research Fund, Enhanced Oil Recovery Research Center.
6. Gas Odorizer Chemical Production and New Methods for Odorization, Sponsor of Research Fund, National Iranian Gas Company.
7. Physical and Chemical Properties of Odorizer Chemicals, Sponsor of Research Fund, National Iranian Gas Company.
8. Natural Gas Odorizer Content and Odorization Control, Sponsor of Research Fund, National Iranian Gas Company .
9. Methods and Equipment Used for Gas Flow Odorization, Sponsor of Research Fund, National Iranian Gas Company.
10. Odorization Problems, Sponsor of Research Fund, National Iranian Gas Company.

11. Odor Subjective Measurement, Sponsor of Research Fund, National Iranian Gas Company.
12. Odorizer (Mercaptanes) Production Procedures, Sponsor of Research Fund, National Iranian Gas Company.
13. Amine Content Lost Study, Sponsor of Research Fund, National Iranian Gas Company.
14. Time Table, and Operating Schedule of Amine lost Project, Sponsor of Research Fund , National Iranian Gas Company.

TECHNICAL REPORT RELATED To POLYMER SCIENCE And TECHNOLOGY:

1. Theoretical Study and Optimization of Effective Parameters on Bench Scale Polyvinyl Alcohol Production Process and Pilot Plant Design. Technical Report , Vol. 1, No. PVA1 , Sponsor of Research Fund, Chemi Darou Company.
2. Theoretical Study and Optimization of Polyvinyl Alcohol Bench Scale Synthesis Process and Pilot Plant Design, Technical Report, Vol. 2, No. PVA2, Sponsor of Research Fund , Chemi Darou Company.
3. Theoretical Study and Optimization of Polyvinyl Alcohol Bench Scale Synthesis Process and Pilot Plant Design, Technical Report, Vol. 3, No. PVA3 , Sponsor of Research Fund, Chemi Darou Company.
4. Mathematical Modeling of Chemical Kinetic of Poly Vinyl Acetate Synthesis by Solution Polymerization , Technical Report, Vol. 4, No. PVA2, Sponsor of Research Fund, Chemi Darou Company.
5. Design of Polyvinyl Acetate and Polyvinyl Alcohol Pilot Plant Production Unit, Technical Report , Vol. 5, No. PVA3 , Sponsor of Research Fund, Chemi Darou Company.
6. Mathematical Modelling of Phenol and Aldehyde Polymerization for Novolak Production, Technical Report, No. PPD1, Sponsor of Research Fund , Polymer Science and Technology Research Center of Iran.
7. Computer Simulation for Pilot Plant Design, Technical Report No. PPD2, Sponsor of Research Fund ,Polymer Science and Technology Research Center of Iran.
8. Scale-up Fundamental, Technical Report No. PPD3, Sponsor of Research Fund, Polymer Science and Technology Research Center.
9. Poly Esterification Reaction Kinetics and Mechanism, Technical Report No. PPD4 , Sponsor of Research Fund, Polymer Science and Technology Research Center.
10. Industrial Methods for Unsaturated Polyester Production, Technical Report No. PPD5 , Sponsor of Research Fund, Polymer Science and Technology Research Center of Iran.
11. Unsaturated Polyesters, Technical Report, No. PPD6, Sponsor of Fund, Polymer Science and Technology Research Center of Iran.
12. Bench Scale Production of Unsaturated Polyesters, Technical Report No. PPD7, Sponsor of Research Fund, Polymer Science and Technology Research Center of Iran.
13. Phenolic Resins, Technical Report No. PPD8, Sponsor of Research Center, Polymer Science and Technology Research Center of Iran.
14. Study of Mechanism and Effective Factors on Unsaturated Polyester Production, Technical Report No. PPD9, Sponsor of Research Center , Polymer Science and Technology Research Center of Iran.
15. Phenol Formaldehyde Production, Design, Process and Simulation Package, Technical Report, Sponsor of Research Fund, Polymer Science and Technology Research Center of Iran.
16. Bench Scale Production of Phenol Formaldehyde Polymer, and Study of its Effective Parameters, Sponsor of Research Fund, Polymer Science and Technology Research Center of Iran.
17. Heat Transfer in Rubber and Problems Associated with Transport Phenomena, Technical Report TIR C1, Sponsor of Research Fund, Kerman Tyre Rubber Company.
18. Kinetic Study of Rubber Curing and Methods for Calculating and Measurement of Heat ,of Vulcanization, Technical Report TIRC 2, Sponsor of Research Fund, Kerman Tyre Rubber Company.

19. Measurement of Curing Rate of Rubber, Technical Report TIRC 3, Sponsor of Research Fund, Kerman Tyre Rubber Company.
20. Vulcanization Temperature Coefficient, Technical Report TIRC 4 , Sponsor of Fund, Kerman Tyre Rubber Company.
21. Equivalent State of Cure ,Technical Report TIRC 5, Sponsor of Research Fund, Kerman Tyre Rubber Company.
22. Mathematical and Computer Analysis of Tyre Curing Process, Technical Report TIRC 6, Sponsor of Research Fund, Kerman Tyre Rubber Company.
23. Software for Physical and Reaction Parameters Determination of Rubber Compound, Technical Report CORC, Sponsor of Research Fund, Kerman Tyre Rubber Company.
24. Software for Passenger Tyre Curing Process, Technical Report TIRC 7, Sponsor of Research Fund, Kerman Tyre Rubber Company.

TECHNICAL REPORT RELATED To MODELLING And SIMULATION:

- 1- Modelling and Simulation of Urban Air Pollution With Emphasis on Tehran Air Pollution, Technical Report NO. 1, Sponsor of Research Fund, Research Department of Amirkabir University of Technology.
- 2- Modelling and Simulation of Urban Air Pollution With Emphasis on Tehran Air Pollution, Technical Report NO. 2, Sponsor of Research Fund, Research Department of Amirkabir University of Technology.
- 3- Simulation of Air Pollution of Mountainous Cities, Technical Report of NO. 3, Sponsor of Research Fund, Research Department of Amirkabir University of Technology.
- 4- Mathematical Modelling and Computer Simulation of Urban Air Pollution, With Emphasis of Tehran Air Pollution (Eulerian Model), AIR POL Computer Package), Technical Report NO. 4 , Sponsor of Research Fund, Research Department of Amirkabir University of Technology.
- 5- Computer Dynamic Simulation of Argon Unit (Cold Box), Technical Report NO. 1, Sponsor of Research Fund, Shiraz Petrochemical Complex (NIPC).
- 6- Computer Dynamic Simulation of Argon Unit (Cold Box), Technical Report NO. 2, Sponsor of Research Fund, Shiraz Petrochemical Complex (NIPC).
- 7- Manual for Cold_Box Dynamic Simulation Package, Technical Report NO. 3, Sponsor of Research Fund, Shiraz Petrochemical Complex (NIPC).

TECHNICAL REPORT RELATED To MISCELLANEOUS TOPICS:

- 1- Feasibility Study of Alum Production, Sponsor of Research Fund, Metals and Mine Ministry.
- 2- Taikand Alunite Mine Sampling Report, Sponsor of Research Fund, Metals and Mine Ministry.
- 3- Alum Production Experimental Activity, Sponsor of Research Fund, Metals and Mine Ministry.
- 4- Final Reports of Alum Bench Scale Experimental Part, Sponsor of Research Fund, Metals and Mine Ministry.
- 5- Alum Production Design and Economic Study Phase Report, Sponsor of Research Fund, Metals and Mine Ministry.
- 6- Diatomaceous Earth Production in World and its Conventional Processing, Sponsor of Research Fund, Metals and Mine Ministry.
- 7- Experimental Activities, Sample Analysis and Optimization of Effective Parameters in Diatomaceous Earth Production Process, Sponsor of Research Fund, Metals and Mine Ministry.
- 8- Feasibility Study Report of Tehran Oil Refinery Dewaxing Unit, Sponsor of Research Fund, Behran Motor Oil Refining Company.

- 9- Modelling and Computer Design Report for Cyclones used in Diatomaceous Earth Production Unit. Report Number DPP1, Sponsor of Research Fund, Tehran Metro Transpiration Company.
- 10- Scheduling Report of Diatomaceous Earth Production Unit (Mamaghan Mine), Report Number DPP2, Sponsor of Research Fund, Tehran Metro Transportation Company.
- 11- Research Report of Sampling Methods Used for Diatomaceous Mines, Report Number DPP3, Sponsor of Research Fund, Tehran Metro Transportation Company. ."
- 12- Economical Report for Diatomic, Production Consumption and Trading in World, Report Number DPP4, Sponsor of Research Fund, Tehran Metro Transportation Company.

TITLES Of INDUSTRIAL PROJECTS (Energy Research Center & Oil, Gas and Petrochemical Research Center of Amirkabir University of Technoloh)

Project 33:

Conducting special tests to ensure flow and maintain production levels affected by heavy hydrocarbon deposits (proposal for the construction of special equipment to ensure flow and maintain production levels). Client: Arvandan Oil and Gas Company. Project in progress

Project 32:

Design, formulation, preparation, and techno-economic evaluation of ionic liquid compounds as effective chemicals for use in the process of separating water from crude oil. Client: National Iranian South Oilfields Company. Project in progress

Project 31:

Oil fields Integration in Demulsifier Agents Consumption in Order to Optimize and reduce Costs and Variety of Chemicals used Based on Synthesis of Proper Demulsifier of National Company for Oilfields.

Project 30:

Establishing a Catalytic Reforming Institute (CCR) and conducting research and technological studies to achieve the technology development strategy related to the production of process know-how and catalytic reforming catalyst (CCR) Client: the National Iranian Oil Refining and Distribution Company.

Project 29:

Conducting research and consulting studies to develop technologies aimed at optimizing production processes and increasing the recovery factor in the Darquain oil field .Client: Arvandan Oil and Gas Company.

Project 28:

Comprehensive thermodynamic and kinetic software packages for use in gas storage operations in salt domes. Funded. Client: Facualty of Enginnering, Tehran university.(2015)

Project 27:

Oil and gas underground storage. Funded by Ministry of Science, Research and Technology Iran.(2013)

Project 26:

Conducting research and consulting studies to develop technologies aimed at optimizing production processes and increasing the recovery factor in the Fahliyan reservoir of the Darquain oil field based on research-oriented approaches and modern global technologies. This includes planning and implementing educational programs and supporting postgraduate theses. Client: National Iranian Oil Company and Arvandan Oil and Gas Company.(2014)

Project 25:

Simulation and comparison of a combined cycle containing an evaporative desalination unit and a combined cycle gas turbine containing an evaporative desalination unit using Aspen Plus software, followed by selecting the optimal scenario to optimize efficiency and return on investment. Funded by MAPNA Group.(2013)

Project 24:

National mega project "Integrated production management from the South Pars gas field with an emphasis on technology transfer and development in the upstream, midstream, and downstream industries." Client: Ministry of Science, Research, and Technology (ATF Council. (2012)

Title of prepared technical reports:

1. South Pars Production Asset Management Proposal (Study and Preparing the Pilot Plan)
2. Investigation on Application of Smart Field Technologies in South Pars Gas Field and Preparation of Smart MDP and Economical Analysis
3. Investigation on Application of Smart Well Technologies in South Pars Gas Field and Preparation of Smart Plan for Constructing Pilot a Well and Economical Analysis

Project 23:

Software preparation and development for simulation and analysis of well testing of oil and gas reservoirs based on analytical and numerical models. Funded by National Iranian South Oil Company.(2012)

Title of prepared technical reports:

1. Analytical Well Test modeling of Oil & Gas reservoir (Software of mathematical modeling)
2. Numerical Well Test modeling of Oil & Gas reservoir (Software of mathematical modeling)

Project 22:

Technical feasibility study of the CCHP project of the Holy Shrine of Ali Ibn Musa al-Reza and its development plan and feasibility studies of the CCHP and District Energy of Parand New Town. Funded by Iran Fuel Conservation Company. (2009)

Technical report:**PARAND:**

1. Introduction,ERC-CCHP-PRAND-00
2. Description of new phases of Parand city for implementing the plan with considering demand, technical aspects and existing limitations,ERC-CCHP-PRAND-01
3. Study, review of technical documentation and specifying selected power plants, for heat recovery, according to surveys done in the first phase and technical feasibility,ERC-CCHP-PRAND-02
4. Preparation of plan site and arrangement of system components,ERC-CCHP-PRAND-03
5. Design of hot and cold water distribution network with respect to the demand for energy at different consumption locations and preparing lines track path,ERC-CCHP-PRAND-04
6. Design of heat recovery boilers for required steam generation,ERC-CCHP-PRAND-05
7. Design and selection of heat for required steam generation,ERC-CCHP-PRAND-06
8. Design of heat exchangers and auxiliary equipments required ,ERC-CCHP-PRAND-07
9. Estimation of overall items required,ERC-CCHP-PRAND-08
10. Description of new phases of Parand city for running the plan with considering demand, technical aspects and existing limitations,ERC-CCHP-PRAND-09
11. Evaluation of saving in energy consumption, pollutants reduction and consumer electrical energy in the combined cycle scenario,ERC-CCHP-PRAND-10
12. Economic evaluation of the plan from the national perspective,ERC-CCHP-PRAND-11
13. Economic assessment of the plan from a consumer perspective,ERC-CCHP-PRAND-12

MASHHAD:

1. Introduction and preparation,ERC-CCHP-MASH-00
2. Review reports of existing maps and documents,ERC-CCHP-MASH-01
3. Collecting supplementary information and doing field visits,ERC-CCHP-MASH-02
4. Evaluating and integrating collected information for data validation,ERC-CCHP-MASH-03
5. Review of the results of previous studies and correcting them if needed,ERC-CCHP-MASH-04
6. Evaluation of the previous plan according to the collected information,ERC-CCHP-MASH-05
7. Re-estimating all the items and equipment needed to implement the plan,ERC-CCHP-MASH-06
8. Estimating cost of the project from engineering aspects, supply of goods, installation and commissioning, ERC-CHP-MASH-07
9. Estimation of operational costs of the system including maintenance costs, the cost of manpower,ERC-CCHP-MASH-08
1. Providing a list of primary vendors to supply the main system equipment,ERC-CCHP-MA
2. Economic evaluation of the plan from the national perspective,ERC-CCHP-MASH-10
3. Economic assessment of the plan from a consumer perspective,ERC-CCHP-MASH-11
4. Comparison of previous studies and new estimates for analysis of the reasons for possible deviations,ERC-CCHP-MASH-12
5. Provide an executive schedule and timetable for the implementation of the plan,ERC-CCHP-MASH-13
6. Design and description of the next stage design including basic design and detailed design,ERC-CCHP-MASH-14
7. Recovery boiler 95 atm and 500°C,ERC-CCHP-MASH-15
8. Studies related to the addition of two Alstom gas units to previous studies,ERC-CCHP-MASH-16
9. Management Report,ERC-CCHP-MASH-R1

Project 21:

Modeling of air pollution dispersion in Tehran city. Funded by Department of Environment.(2008)

Title of prepared technical reports:

- Mathematical modeling of Air Pollution in Tehran City (Hydrodynamic and Dispersion modeling)
- Simulation modeling of Tehran Air Pollution (Software of modeling)

Project 20:

Decolorization the darkness of natural gas condensates in Aghar, Dalan, Homa and Tabnak. Funded by Iranian Central Oil Fields Company.(2007)

Technical reports sent to the Central Iranian Oil Company

1. Correction of darkness of gas condensate color in Aghar and Dalan area and Homa and Tabnak production wells (study pgase-part 1)
2. Correction of darkness of gas condensate color in Aghar and Dalan area and Homa and Tabnak production wells (study pgase-part 2)
3. Laboratory analysis
4. Additional report for inhibitors
5. Inhibitor modeling
6. Black powder
7. Decontamination through refinement and hydro treating
8. Investigation and design of surface installations
9. Investigation of deterioration efficiency of inhibitors used in oil wells
10. Summary of reports in geological, petrophysics, PVT of gas reservoirs of Shanol, Varavi, Aghar and Dalan, Homa and Tabnak
11. Management Report (final report)
12. Additional management and economical report (final report)

Project 19:

Developing consumption standards and energy labels for industrial heaters using convective heat transfer methods within the capacity ranges of less than 75 kW and 75-300 kW. Client: National Iranian Fuel Consumption Optimization Organization .(2007)

Project 18:

Investigation and modeling of corrosion phenomena in underwater pipelines. Funded by Petropars Ltd. Company. (2007)

Project 17:

Investigating the maximum limit of gas velocity in natural gas transmission lines. Funded by National Gas Company.(2005)

Project 16:

Developing software for multiphase flow inside casing and transfer pipes. Client: Ministry of Petroleum. (2004)

Project 15:

Surface facilities project and preparation of a safe gas operation area. Client: Ministry of Petroleum. (2004)

Project 14:

Developing software for wax phase equilibria. Client: Ministry of Petroleum. (2004)

Project 13:

Developing software for asphaltene phase equilibria. Client: Ministry of Petroleum (2004)

Project 12:

Conducting benchmarking studies for the National Iranian Oil Refining and Distribution Company. Client: National Iranian Oil Refining and Distribution Company. (2003)

Project 11:

Predicting software development of Asphaltene formation in the injection processes and production in wells and utilities. Funded by National Iranian Oil Company-R & D Management.(2002)

Project 10:

Research services in the field of liquefied gas study and analysis. Client: National Iranian Oil Refining and Distribution Company. (2002)

Project 9:

Elaboration of technical development of PVC production by emulsion method. Funded by National Petrochemical Industries Company.(2001)

Project 8:

Replacing HF Catalyst with New Catalyst.(2001)

Project 7:

Optimizing the arrangement of heat exchangers in the Bandar Imam Olefin Unit. Client: Bandar Imam Petrochemical Company. (2001)

Project 6:

Optimization of heat exchangers array in preheating crude oil units. Funded by Arak Refinery.(2000)

Project 5:

Determining energy consumption standards for chillers. Client: Ministry of Energy.(2000)

Project 4:

Determination of energy consumption standard by electric water heater. Funded by Ministry of Power.(2000)

Project 3:

Developing the technical know-how for the pioneering unit of polyvinyl alcohol production. Funded by National Petrochemical Industries Company.(1999)

Project 2:

Consultant for Shiraz Petrochemical Company in increasing the capacity of the lime kiln. Client: Shiraz Petrochemical Company (1998).

Project 1:

Increasing the production capacity of the North Unit of Tehran Refinery. Funded by Tehran Refinery .