Academic Curriculum Vitae

1. Personal Particulars

Full Name Jamshid BEHIN

Date of Birth September 16th, 1965

Nationality Iranian
Marital Status Married

Military Service Division: Air force army, Rank: first lieutenant (1991-1993)

Place of Employment Razi University, Professor

Mailing Address Faculty of Petroleum and Chemical Engineering,

Razi University, Kermanshah, P.C. 67144-14971, Iran

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E-mail Behin@razi.ac.ir ; Jamshid_Behin@yahoo.com

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https://orcid.org/0000-0002-6556-8743

https://scholar.google.ca/citations?user=GUT5bEYAAAAJ&hl=en

2. Education

Ph.D.

Process Engineering; Institute National Polytechnique de Toulouse, France; 1995-1998

Thesis title: Ozone activity on gas-solid interface: application to bleaching of high consistency paper pulp

Mention: Trés honorable

D.E.A. (Diplôme d'Etude Aprofondis)

Process Engineering; Institute National Polytechnique de Toulouse, France; 1994-1995 *Thesis title:* Modeling of cold remote oxygen plasma for ozone production in ozone generator

Mention: Assez bien

M.Sc.

Chemical Engineering; Sharif University of Technology, Tehran, Iran; 1988-1991

Thesis title: Modeling of a dissolved air flotation cell for separation of suspended solid particles in liquid

Mark: 17/20

Seminar title: Ultra-pure silicon for semiconductor production in microelectronics

B.Sc.

Chemical Engineering; Sharif University of Technology, Tehran, Iran; 1984-1988

Daadina

Thesis title: Design of a mono-, di- and tri-ethanolamine unit

Mark: 16.5/20

3. Languages

	Reading	Speaking	writing
French	Fluent	Fluent	well
English	Fluent	well	well

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4. Awards

Distinguished Researcher, Razi University: 2005, 2006, 2008, 2009, 2010, 2015, 2021

5. Academic Positions

Head of Chemical Engineering Department, Razi University; 2009-2013

Responsible for Student National Olympiad, Faculty of Petroleum and Chemical Engineering, Razi

University, Kermanshah, since 2018 to present

Visiting Scholar, Western University, London, Ontario, Canada; 2013-2014

6. Work Experiences

Process Engineer

National Petrochemical Company; Department of Process Engineering; Agricultural pesticides unit (Alachlor & Butachlor); 1992-1993

Researcher

Electrical Power Research Center (EPRC), Tehran, Iran;1993-1994 *Research title:* Storage of heat energy in solar electrical power plant

Consultant



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National Petrochemical Company; Pouyesh Research Center; Arak, Iran; 2002-2003

Preparation of technical proposal for some industrial unit in Kermanshah, Iran; 2001-2004

Member of technical comity of pulp & paper (ISIRI/TC6)

Institute of Standard of the Islamic Republic of Iran (ISIRI), Writing National Standards; 2002-2004

7. Teaching Experiences

Razi University

Faculty of Petroleum and Chemical Engineering, Post graduate and under graduate;1999 till now Faculty of Chemistry, Under graduate (B.Sc); 1999-2000

Iran University of Science and Technology

Tehran branch. Faculty of Petroleum and Chemical Engineering, Post graduate (M.Sc.); 1998-19999 Arak branch, Department of Mechanical Engineering, Under graduate (B.Sc.), 2008-2013

Tehran University

Faculty of Engineering (Pardis), Under graduate (B.Sc.); 1998-1999

Kermanshah University of Technology

Faculty of Engineering, Department of Chemical Engineering, Post and under graduate; 2009-2013 **Azad University**

Arak Branch, Department of Applied Chemistry, Post graduate (M.Sc.); 1998-2001

Arak Branch, Department of Chemical Engineering, Under graduate (B.Sc.), 1999-2013

Arak Branch, Department of Mechanical Engineering, Under graduate (B.Sc.); 1999-2013

Kermanshah Branch, Department of Chemical Engineering, Under graduate (B.Sc.); 2011-2013

Kermanshah Branch, Department of Chemical Engineering, Post graduate (Ph.D.); 2014-2016

Subjects Taught

Advanced chemical reactor design, Advanced process control, Processes modeling and simulation, Heterogeneous catalysis, Plant design & economics for chemical engineers, Unit operations II, Mass transfer, Process control (Chem. Eng.), Process control II, Automatic control (Mechanical Eng.), Heat transfer, Chemical reactor design, Applied mathematics for engineers, Instrumentation in chemical engineering, Special subjects in chemical Engineering, Introduction to chemical engineering, Fuel and combustion, Design of heat exchangers, Modern subjects in applied chemistry, Chemistry from laboratory to industry, Equipment's control, Reactors, Basic calculations in Industrial chemistry, Industrial chemistry II, Fluid mechanic laboratory, Unit operations laboratory, Process control laboratory, Industrial chemistry laboratory

7. Contracts supported by industries and universities

National Petrochemical Company; Research and Technology Center

Title: Modeling of multi-stages bubble column oxidation reactor used for hydrogen peroxide production from isopropyl alcohol; 2005

Title: Modelling and simulation of Butadiene separation unit; 2006

Title: Investigation and optimization of energy consumption in unit 100 of Bisotun Petrochemical Company using process integration (Pinch technology); 2013

ACECR (Jahad-e-Daneshgahi); Research Center

Title: Production of dissolving pulp (alpha-cellulose) from corn stalk of Kermanshah province; 2006

National Iranian Oil Products and Refinery Company (NIOPC)

Title: Modeling of Kermanshah refinery's flotation tank by residence time distribution curve; 2006

National Petrochemical Company; Research Center

Title: Modeling and simulation of Butadiene separation unit of Tabriz/Iran petrochemical complex; 2006 **Khouzestan Steel Company**

Title: Simulation of the furnace of direct reduction (zamzam) in Khouzestan Steel Company using Computational Fluid Dynamics (CFD); 2007

Persian Gulf Petrochemical Industries Company; Karoon Petrochemical Company

Title: Material design, construction and start-up of a pilot system for purification of Toluene feed of Karoon Petrochemical Company; 2020

Razi University

Title: Deinking of recycle paper by flotation process and alcohols; 2007

Title: Investigation of pulping and bleaching of corn stalk: effect of operation conditions; 2009

Title: Deinking of recycle paper using refinery wastewater; 2011

8. Book compilation and translation

Compilation

Introduction to Chemical Engineering (Persian); 2009

Fly ash: Properties, Analysis and Performance, Chapter 1: Rapid manufacturing methods for coal fly ash to zeolites using microwave and ultrasonic energy, **J. Behin**, S. Bukhari, S. Rohani, H. Kazemian, p: 1-34; Materials Science and Technologies; Editor: Jacob Parker, Nova Science Publishers, Inc New York, 2017, 265 p.

Translation (English to Persian)

Instrumentation and Control in Chemical, Metallurgical, and Mineral Engineering, 2004 (1st ed.) 2007 (2nd ed.)

Chaos for Engineers; Theory, Application and Control; 2005

9. Publications

Behin J., Delmas M., "Effect of pH on kinetics of ozone-lignin reaction during bleaching of high consistency paper pulp", *Iranian Journal of Chemistry & Chemical Engineering*, 22nd years, No. 2, pp. 49-56; 2003

Behin J., Vahed Sh., "Effect of alkyl chain in alcohol deinking of recycled fibers by flotation process", *Colloids & Surfaces A: Physicochem. Eng. Aspects*, vol. 297, pp. 131-141; 2007

Behin J., Mikaniki F., Fadaei Z., "Dissolving pulp (alpha-cellulose) from corn stalk by Kraft process", *Iranian Journal of Chemical Engineering*, vol. 5, No. 3, pp. 14-28; 2008

Behin J., Aghajari M., "Influence of water level on oil-water separation by residence time distribution curves investigation", *Separation and Purification Technology*, vol. 64, pp. 48-55; 2008

Behin J., Zeyghami M., "Dissolving pulp from corn stalk residue and waste water of Merox unit", *Chemical Engineering Journal*, vol. 152, pp. 26-35; 2009

Behin J., Kavianpour H.R., "A comparative study for the simulation of industrial naphtha reforming reactors with considering pressure drop on catalyst", *Petroleum and Coal*, vol. 51, pp. 199-206; 2009

Behin J., "Modeling of modified airlift loop reactor with a concentric double-draft tube", *Chemical Engineering Research and Design*, vol. 88, pp. 919-927; 2010

Behin J., Ahmadi A., "Mixing parameters of an airlift bioreactor considering constant cross sectional area of riser to downcomer: effect of sparging gas location", *Korean Journal of Chemical Engineering*, vol. 27, pp. 1226-1232; 2010

Behin J., Shojaeimehr T., "Influence of high density particles in reduction of axial dispersion in liquid fluidized bed with RTD curve studies", *Korean Journal of Chemical Engineering*, vol. 28, pp. 980-986; 2011

Behin J., Norouzi Sh., "Influence of water ions and aluminum silicate particles on emulsion resolution of crude oil", *Petroleum & Coal*, vol. 53, pp.115-122; 2011

Behin J., "Flotation deinking in bubble column and airlift reactors: influence of waste water of Merox unit as pulping liquor", *Chemical Engineering Research and Design*, vol. 90, pp.1042-1051; 2012

Behin J., Bahrami S., "Modeling an industrial dissolved air flotation tank used for separating oil from wastewater", *Chemical Engineering and Processing: Process Intensification*, vol. 59, pp.1-8; 2012

Naderi-Nasrabadi M., **Behin J.**, "Plotting residence time distribution (RTD) diagram for a two-dimensional airlift reactor using imageJ software", *International Journal of Biological, Ecological and Environmental Science*, vol. 1, pp.181-885; 2012

Behin J., Shojaeimehr T.,"Modeling of multi-stage bubble column reactor for oxidation reaction", *Chemical Engineering and Technology*, vol. 36, pp.1-11; 2013

Behin J., Farhadian N., "Residence time distribution measurements in a two dimensional rectangular airlift reactor by digital image processing", *Experimental Thermal and Fluid Science*, vol. 51, pp. 244-250; 2013

Behin J., Bukhari S.S., Dehnavi V., Kazemian H., Rohani S., "Using coal fly ash and waste water for microwave synthesis of LTA zeolite", *Chemical Engineering and Technology*, vol. 37, pp. 1-10; 2014

Azimi S., **Behin J.**, Abiri R., Rajabi L., Derakhshan A.A., Karimnezhad H., "Synthesis, characterization and antibacterial activity of chlorophyllin functionalized graphene oxide nanostructures", *Science of Advanced Materials*, vol. 6, pp. 771-781; 2014

Bukhari S.S., **Behin J.**, Kazemian H., Rohani S., "A comparative study using direct hydrothermal and indirect fusion methods to produce zeolites from coal fly ash utilizing single mode microwave energy at atmospheric pressure", *Journal of Materials Science*, vol. 49, pp. 8261-8271; 2014

Bukhari S.S., **Behin J.**, Kazemian H., Rohani S., "Synthesis of LTA using single mode microwave irradiation at atmospheric pressure: The effect of microwave power", *Canadian Journal of Chemical Engineering*, vol. 93, pp. 1081-1090; 2015

- Bukhari S.S., **Behin J.**, Kazemian H., Rohani S., "Conversion of coal fly ash to zeolite utilizing microwave and ultrasound energies: A review", *Fuel*, vol. 140, pp. 250-266; 2015
- **Behin J.**, Azimi S., "Experimental and computational analysis on influence of water level on oil-water separator efficiency", *Separation Science and Technology*, vol. 50, pp. 1695-1700; 2015
- **Behin J.**, Farhadian N., "Application of digital image processing technique to investigate hydrodynamic of a rectangular airlift reactor with double downcomer", *Chemical Engineering and Technology*, vol. 38, pp. 2207-2216; 2015
- **Behin J.**, Farhadian N., Ahmadi M., Parvizi M., "Ozone assisted electrocoagulation in a rectangular internal-loop airlift reactor: Application to decolorization of acid dye", *Journal of Water Process Engineering*, vol.8, pp. 171-17; 2015
- **Behin J.**, Bukhari S.S., Kazemian H., Rohani S., "Developing a zero liquid discharge process for zeolitization of coal fly ash to synthetic NaP zeolite", *Fuel*, vol. 171, pp. 195-202; 2016
- **Behin J.**, Kazemian H., Rohani S., "Sonochemical synthesis of zeolite NaP from clinoptilolite", *Ultrasonics Sonochemistry*, vol. 28, pp. 400-408; 2016
- Aldahri T., **Behin J.**, Kazemian H., Rohani S., "Synthesis of zeolite Na-P from coal fly ash by thermosonochemical treatment", *Fuel*, vol. 182, pp. 494-501; 2016.
- Ahmadi M., **Behin J.**, Mahnam A.R., "Kinetics and thermodynamics of peroxydisulfate oxidation of Reactive Yellow 84", *Journal of Saudi Chemical Society*, vol. 20, pp. 644-650; 2016
- **Behin J.**, Shahryarifar A., Kazemian H., "Ultrasound-Assisted Synthesis of Cu and Cu/Ni Nanoparticles on NaP Zeolite Support as Antibacterial Agents", *Chemical Engineering and Technology*, vol. 39, pp. 2389-2403, 2016
- **Behin J.**, Sadeghi N., "Utilization of waste lignin to prepare controlled-slow release urea", *International Journal of Recycling Organic Waste Agriculture*, vol. 5, pp. 289-299, 2016
- **Behin J.**, Sharifi A., "Utilization of wastewater of Merox unit for un-hairing of sheep skin", *Journal of Separation Science and Engineering*, vol. 8, pp. 75-86, 2016
- **Behin J.**, Farhadian N., "Response surface methodology and artificial neural network modeling of reactive red 33 decolorization by O3/UV in a bubble column reactor", *Advances in Environmental Technology*, vol. 1, pp. 33-44, 2016
- **Behin J.**, Farhadian N., "Response surface methodology for ozonation of trifluralin using advanced oxidation processes in an airlift photo-reactor", *Applied Water Science*, vol. 7, pp. 3103-3112; 2017
- **Behin J.**, Farhadian N., "Multi-objective optimization of oxidative desulfurization in a sono-photochemical airlift reactor", *Ultrasonics Sonochemistry*, vol. 38, pp. 50-61; 2017
- **Behin J.**, Akbari A., Mahmoudi M., Khajeh M., "Sodium hypochlorite as an alternative to Hydrogen peroxide in Fenton process for industrial scale", *Water Research*, vol. 121, pp. 120-128; 2017
- Nowrouzi M., **Behin J.**, Younesi H., Bahramifar N., Charpentier P.A., Rohani S., "An enhanced countercurrent approach towards activated carbon from waste tissue with zero liquid discharge", *Chemical Engineering Journal*, vol. 326, pp. 934-944; 2017
- Aldahri T., **Behin J.**, Kazemian H., Rohani S., "Effect of microwave irradiation on crystal growth of zeolitized coal fly ash with different solid/liquid ratios", *Advanced Powder Technology*, vol. 28, pp. 2865-2874; 2017
- Farhadian N., **Behin J.**, "Degradation of 2,4-dichlorophenoxyacetate isopropyl amine (2,4-D IPA) by O₃/AC/UV in an internally slurry airlift photo-reactor", *Environmental Technology*, vol. 38, pp. 3180-3191, 2017
- **Behin J.**, Rajabi L., Etesami H., Nikafshar S., "Enhancing mechanical properties of epoxy resin using waste lignin and salicylate alumoxane nanoparticles", *Korean Journal of Chemical Engineering*, vol. 35, pp. 602-612, 2018
- **Behin J.**, "Sulfur removal from sodium hydroxide solution by ozonation/adsorption process", *Petroleum Research*, vol.28, Issue 95-7, pp. 87-101, 2018 (in Persian)
- Farhadian N., **Behin J.**, Parvareh A., "Residence time distribution in an internal loop airlift reactor: CFD simulation versus digital image processing measurement ", *Computers & Fluids*, vol. 167, pp. 221-228, 2018
- Okhovat-Alavian S.M., **Behin J.**, Mostoufi N., "Investigating the flow structures in semi-cylindrical bubbling fluidized bed using pressure fluctuation signals", *Advanced Powder Technology*, vol. 30, pp. 1247-1256, 2019
- **Behin J.**, Ghadamnan E., Kazemian H., "Recent advances in natural zeolites sciences and technologiesin Iran", *Clay Minerals*, vol. 54, pp. 131-144, 2019
- Akbari A., Sadani M., Sedighizadeh A., Sedghi A., Khajeh M., Mahmoudi M., Bagheri A., Teimouri F., **Behin J.**, "Reduction of dinitrotoluene by hydrated electrons generated from UV irradiation of toluene in wastewater: Towards cleaner production", *Journal of Cleaner Production*, vol. 238, pp. 117857, 2019

Okhovat-Alavian S.M., Behin J., Mostoufi N., "Investigating the flow structures in semi-cylindrical bubbling fluidized bed using pressure fluctuation signals", *Powder Technology*, vol. 370, pp. 129-136, 2020

Bahiraei A., **Behin J.**, "Sonochemical immobilization of MnO₂ nanoparticles on NaP-zeolite for enhanced Hg (II) adsorption from water", *Journal of Environmental Chemical Engineering*, vol. 8, pp. 103790, 2020 Ghabaee S., **Behin J.**, Ansari M., Rajabi L., "Synthesis and characterization maleate-alumoxane nanoparticles for removal of reactive yellow 84 dye from aqueous solution", *Advanced Powder Technology*, vol. 31, pp. 2061-2071, 2020

Amiri P., **Behin J.**, "Assessment of wastes recycling for deinking purposes in ozone assisted green process", *Environmental Science and Pollution Research*, vol. 27, pp. 21859-21871, 2020

Amiri P., **Behin J.**, Rajabi L., Ansari M., "Synthesis of Chitosan/Maleate-Alumoxane nanocomposite membranes for adsorption of anionic dye", *Korean Journal of Chemical Engineering*, vol. 37, pp. 1761-1772, 2020

Sadeghi N., **Behin J.**, "Modeling of nitrogen release in urea-modified lignin matrix", *Journal of Modeling in Engineering*, vol. 18, Issue 60, pp. 1-18, 2020 (in Persian)

Mahmoudi M., **Behin J.**, "Detrimental effect of industrial toluene organic impurities on the density of rigid polyurethane foam", *Korean Journal of Chemical Engineering*, 38, 204-214, 2021

Amiri P., **Behin J.**, "Assessment of aqueous phase ozonation on aggregation of polyvinylpyrrolidone-capped silver nanoparticles", *Environmental Science and Pollution Research*, vol.28, pp. 34838-34851, 2021

Amiri P., **Behin J.**, "Instability of β -phase silver iodide nanoparticles in an aqueous medium by ozone", *Journal of Environmental Chemical Engineering*, vol. 9, pp. 105591, 2021

Behin J., Bahiraei A., "Effect of citric acid and sodium chloride on characteristics of sunflower seed shell-derived activated carbon", *Chemical Engineering & Technology*, vol. 44, 2021

Tavoosi Y., **Behin J.**, "Unhairing of bovine hide using wastewater from Merox unit of oil refinery: techno-environmental aspect", *Environmental Science and Pollution Research*, vol. 29, pp. 28180-28193, 2022

Mokhtarizad A., Amiri P., **Behin J.**, "Ozonation/UV irradiation of dispersed Ag/AgI nanoparticles in water resources: stability and aggregation", *Environmental Science and Pollution Research*, vol. 30, pp. 23192-283212, 2022

Behin J., Amiri P., "A review of recent advances in airlift reactors technology with emphasis on environmental remediation", *Journal of Environmental Management*, 335, 117560, 2023

Alimoradi A., **Behin J.**, "Hotspot-dependent zeolitization of NaY precursor gel with high dissipation factor in microwave heating", *Chemical Engineering & Technology*, vol. 46, pp.711-722, 2023

Amiri P., **Behin J.**, Ghanbariebad S., "Degradation of polyvinylpyrrolidone-coated iron oxide nanoparticles through ozonation: Steric to electrosteric repulsion and electrostatic interactions", *Colloids & Surfaces A: Physicochem. Eng. Aspects*, 675, 131995; 2023

Behin J., Shahabazi H., "Prandtl and Ohnesorge numbers dependent of ultrasonic horn energy in Newtonian liquid under batch and continuous flow", *Ultrasonics Sonochemistry*, vol. 105, 106869; 2024

10. Congress paper

Behin J., Mora J.C., Gabsi S.;"A new fluidizes bed model for solid particle treatment"; 12th International Congress of Chemical Engineering, CHISA 96; Prague, Czech Republic, August 25-30. 1996

Behin J., Mora J.C.; "Modeling of ozone generators as cold remote oxygen plasma generators"; 12th International Congress of Chemical Engineering, CHISA 96; Prague, Czech Republic, August 25-30. 1996

Behin J., Mora J.C.; "Jet bed chemical reactor modeling by means of A poincare's map: Modeling Calibration"; International Conference on Fractal Concepts and the Application of Chaos in Chemical Engineering Problems; Rome, Italy, September 2-5. 1996

Behin J., Blanc B., Mora J.C.; "Ozonizers as a cold remote oxygen plasma generator: modeling of ozone generator"; First European Congress on Chemical Engineering, Florence, Italy, vol.1, p.89-90. 1997

Behin J., Blanc B., Mora J.C.; "Kinetic model in ozone generator: Sensitivity on parameters uncertainty"; 13th Ozone Word Congress, Kyoto, Japan; p. 193-196. 1997

Blanc B., **Behin J.**, Mora J.C.; "Modeling of ozone treatment for fibber and divided solids: ozone-solid mass transfer and reactivity"; 13th ozone word Congress; Kyoto, Japan, p. 47-50. 1997

Behin J., Vahed Sh., "Study of deinking kinetics of waste paper by flotation process", 7th National Iranian Chemical Engineering Congress, Faculty of Engineering, University of Tehran, pp.3-322 to 3-325,2002

Behin J., "Application of chemical kinetics model in order to determine the concentration of ozone and its excited states in industrial ozone generators", 7th National Iranian Chemical Engineering Congress,

Faculty of Engineering, University of Tehran, pp. 3-403 to 3-409;2002

Taherpour A., Siefe Mohadesi S.R., Asadi Shahmirzadi A., **Behin J.**, Extraction of high purity beta-caroten from carrot pulp, 7th National Iranian Chemical Engineering Congress, Faculty of Engineering, University of Tehran, pp. 5-763 to 5-767; 2002

Behin J., Vahed Sh., "Comparison of fiber and filler loss in deinking of waste paper by flotation process", 1st congress on Cellulosic Processing and utilizations, Pardis 3, Faculty of Engineering, University of Tehran, pp. 399-402; 2003

Behin J., Vahed Sh., "Effect of acetone in deinking of waste paper by flotation process", 1st congress on Cellulosic Processing and utilizations, Pardis 3, Faculty of Engineering, University of Tehran, pp. 386-389; 2003

Behin J., Vahed Sh., "Effect of propanol in recovery of waste paper by flotation process", 8th National Iranian Chemical Engineering Congress, Ferdowsi University of Mashhad, pp. 39; 2003

Behin J., Aghaei A., "Investigation of results of SRK equation of state with parameter changing by bifurcation theorem", 14th Iranian Chemistry & Chemical Engineering Congress, Tarbiat Moallem University, P-722; 2004

Behin J., "Effect of pH and temperature on kinetic of ozone-high consistency hydrated cellulose in acidic conditions", 9th Iranian Chemical Engineering Congress, Iran University of Science & Technology, pp. 95; 2004

Behin J., Aghaie A., "Determination of fluid bed regimes by chaos theory", 9th Iranian Chemical Engineering Congress, Iran University of Science & Technology, pp. 7; 2004

Behin J., Soltanian Gh.R., Fallahi Yekta M., "Effect of operating parameters on production of hydrogen peroxide in a bubble column reactor by using axial dispersion model", 9th Iranian Chemical Engineering Congress, Iran University of Science & Technology, pp.117; 2004

Behin J., Soltanian Gh.R., Jafari Nasr M.R., Fallahi Yekta M., "Modeling and simulation of multi-stages bubble column reactor used for hydrogen peroxide production", 10th Iranian Chemical Engineering Congress, University of Sistan & Baluchestan, pp. 2839-2858; 2005

Soltanian Gh.R, Jafari Nasr M.R., **Behin J.**, Fallahi Yekta M., "Effect of acetic acid formation on reaction rate of isopropyl alcohol oxidation in hydrogen peroxide production process", 10th Iranian Chemical Engineering Congress, University of Sistan & Baluchestan, pp. 1136-1147; 2005

Behin J., Kavianpour H.R., Bozorgmehr A., "The study of dissolved air flotation tank behavior with residence time distribution curve and using fluorescent tracer", 10th Iranian Chemical Engineering Congress, University of Sistan & Baluchestan, pp.1123-1135, 2005

Behin J., Bakhtiary K., Orib A.R., "Investigation of fluid flow in a porous sphere (iron oxide pellet) with computational fluid dynamics", 10th Iranian Chemical Engineering Congress, University of Sistan & Baluchestan, pp. 7066-7077; 2005

Behin J., "Chaos in Engineering: Determination of fluid bed regimes by chaos theory", The second Conference on Chaos and Nonlinear Dynamical Systems, Aerospace Research Institute, pp.6-7; 2005

Behin J., Fadaei Z., Mikaniki F., Pourjozi M.; "Production of dissolving pulp from wastes of corn stalk"; 11th Iranian Chemical Engineering Congress, Tarbiat Modares University; 2006

Behin J., Aghajari M., Jahromi A.; "Effect of temperature and electrical field on oil desalter's efficiency"; 11th Iranian Chemical Engineering Congress, Tarbiat Modares University; pp. 617. 2006

Behin J., Bozorgmehr A., Kavianpour H.R.; "Determination of dead volume of dissolved air flotation tank with RTD curve and CFD"; 11th Iranian Chemical Engineering Congress, Tarbiat Modares University; pp. 307. 2006

Behin J., Aghajari M., Jahromi A.; "Effect of asphaltene and inorganic materials on emulsion resolution and quality of Kharg island oil"; 11th Iranian Chemical Engineering Congress, Tarbiat Modares University; pp. 602. 2006

Behin J., Kompany R., Khanahmadi M.; "Gas holdup and liquid circulation velocity in a modified airlift loop reactor with double draft tubes"; 11th Iranian Chemical Engineering Congress, Tarbiat Modares University; pp.43. 2006

Behin J., Mikaniki F., Fadaei Z.; "Production of dissolving pulp (alpha-cellulose) from wastes of corn stalk"; The 5th International Chemical Engineering Congress (IChEC 2008); Kish Island, Iran, p. 97-106. 2008

Behin J., Aligoli F.; "Effect of volumetric flow rate on axial dispertion coefficient of fluid in liquid-solid bed with RTD curves studies"; The 5th International Chemical Engineering Congress (IChEC 2008); Kish Island, Iran, p. 229-239. 2008

Behin J., Kompany R.; "Mixing time, circulation time and liquid circulation velocity in a modified airlift loop reactor with double draft tubes"; The 5th International Chemical Engineering Congress (IChEC 2008); Kish Island, Iran, p. 340-347. 2008

Dr. Jamshid BEHIN – Curriculum Vitae

- **Behin J.**, Hassanzadeh K.; "Simulation of catalytic naphtha reforming with consideration of pressure drop"; The 5th International Chemical Engineering Congress (IChEC 2008); Kish Island, Iran, p. 340-347. 2008
- **Behin J.**, Soltanian Gh.R., "Dynamic behavior of a multi-stage bubble column reactor by axial dispersion model", 1st Iranian Petrohemical Conference, NPC, Tehran. 2008
- **Behin J.**, Zeyghami M., "Simulation of Butadiene purification process (BASF-NMP technology) with ASPEN-PLUS software", 1st Iranian Petrohemical Conference, NPC, Tehran; 2008
- **Behin J.**, Orib A., "Simulation of the furnace of direct reduction (zamzam) in Khouzestan Steel Company with Computational Fluid Dynamics"; 12th Iranian Chemical Engineering Congress, Sahand University of Technology. 2008
- **Behin J.**, Bashiri M., Hamehassani J.; "Simulation of three-stage evaporator with neural networks algorithm"; 12th Iranian Chemical Engineering Congress, Sahand University of Technology. 2008
- **Behin J.**, Ahmadi A.; "The effect of gas injection location on mixing parameters of an air lift reactor"; 12th Iranian Chemical Engineering Congress, Sahand University of Technology. 2008
- **Behin J.**, Aghajari M., "Influence of temperature, pH of produced water, and demulsifier's dosage on instability of crude oil-water emulsion"; 18th International Congress of Chemical Engineering, CHISA 2008; Prague, Czech Republic, August 24-28. 2008
- **Behin J.**, Hassanzadeh K.,"Simulation of catalytic naphtha reforming reactors: A comparative study with consideration of pressure drop"; 18th International Congress of Chemical Engineering, CHISA 2008; Prague, Czech Republic, August 24-28. 2008
- **Behin J.**, Aligoli F., "Investigations of axial dispersion coefficient of fluid in liquid-solid bed with RTD curves: Effect of volumetric flow rate"; 18th International Congress of Chemical Engineering, CHISA 2008; Prague, Czech Republic, August 24-28. 2008
- **Behin J.**, Ahmadi A., "Effect of geometrical parameters on mixing characteristics of an internal loop airlift reactor", 6th International Chemical Engineering Congress and Exhibition; Kish Island, Iran; 2009
- **Behin J.**, Karimii A., "Technical feasibility study of applying methanol instead of acetic acid in light ends recovery system of acetic acid production unit", 6th International Chemical Engineering Congress and Exhibition; Kish Island, Iran; 2009
- **Behin J.**, Zeyghami M., "Comparison of mixing characteristic of bubble column and airlift reactors using tracer injection technique", 6th International Chemical Engineering Congress and Exhibition; Kish Island, Iran; 2009
- **Behin J.**, Zeyghami M., "Separation of 1,3 butadiene from C₄ cut by extractive distillation in butadiene unit: Simulation in two modes", 6th International Chemical Engineering Congress and Exhibition; Kish Island, Iran; 2009
- **Behin J.**, Norouzi Sh., Azimi S., "Influence of water Ions and aluminum silicate particles on emulsion resolution of Maroon oil", 13th National Iranian Chemical Engineering Congress & 1st International Regional Chemical and Petroleum Engineering Conference; Razi University, Kermanshah, Iran; 2010
- **Behin J.**, Azimi S., "Advance oxidation of dibenzothiophene by ozone and hydrogen peroxide", 13th National Iranian Chemical Engineering Congress & 1st International Regional Chemical and Petroleum Engineering Conference; Razi University, Kermanshah, Iran; 2010
- **Behin J.**, Gheituli A., Birjani M., "Energy and exergy analysis application on conventional distillation column: A case study", 13th National Iranian Chemical Engineering Congress & 1st International Regional Chemical and Petroleum Engineering Conference; Razi University, Kermanshah, Iran; 2010
- **Behin J.**, Ferzi. M., Kehtari P., Fakhri S., "investigation of temperature profile of urea during its coating with molten sulfur", First Annual National Meeting of Razi University, Kermanshah, Iran, 2010
- **Behin J.**, Parvizi M., "The decolorization of acid dye by ozone in airlift reactor", 7th International Chemical Engineering Congress and Exhibition; Kish Island, Iran; 2011
- **Behin J.**, Hosseini M., "Kinetics of nitrogen release in polyethylene coated", 7th International Chemical Engineering Congress and Exhibition; Kish Island, Iran; 2011
- **Behin J.**, Dolati F., Vaseghiyan Y. "Estimation of mass transfer coefficient in different regions of forced circulation airlift loop reactor", 7th International Chemical Engineering Congress and Exhibition; Kish Island, Iran; 2011
- Vale-Sheyda P., Rashidi H., **Behin J.**, "Modeling of methane reformer to syngas using artificial neural networks", 7th International Chemical Engineering Congress and Exhibition; Kish Island, Iran; 2011
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