

Abdolreza Samimi

Professor of Chemical Engineering
(Particle Technology)

Department of Chemical Engineering
Faculty of Engineering,
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Technology

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Educations	
Chemical Engineering (Powder Technology) University of Leeds, UK Post Doctorate (research fellow), 2003-2005	
Chemical Engineering (Powder Technology) University of Surrey, UK PhD, 1998-2002	
Chemical Engineering University of Tehran, Iran MSc, 1988-1992	
Chemical Engineering University of Sistan and Baluchestan, Iran BSc, 1986	

Awards
Award from Messel Funds For paper presented in the 7th International Symposium on Agglomeration, Albi, France, <u>Date</u> : 29-31 May 2001
For paper presented in The World Congress on Particle Technology 4, Sydney, Australia , <u>Date</u> : 21-25 July of 2002
Journals
Small-diameter vascular graft using co-electrospun composite PCL/PU nanofibers Authors: Nafiseh Jirofti, Davod Mohebbi-Kalhari, Abdolreza Samimi, Afra Hadjizadeh and Gholam Hossein Kazemzade Journal: Biomedical Materials, 15(5), (2018),
Application of layer-by-layer assembled chitosan/montmorillonite nanocomposite as oxygen barrier film over the ceramic separator of the microbial fuel cell Authors: Vajihe Yousefi, Davod Mohebbi-Kalhari, Abdolreza Samimi Journal: Electrochimica Acta 283 (2018) 234-247.
Fabrication of polymeric nanofibrous mats with controllable structure and enhanced wetting behavior using one-step electrospinning Authors: Razieh Beigmoradi, Abdolreza Samimi, Davod Mohebbi-Kalhari Journal: Polymer, 143 (2018), 271-280.
Synthesis and adsorption performance of a modified micro-mesoporous MIL-101(Cr) for VOCs removal at ambient conditions Authors: Marziye Shafiei, Masood Sheikh Alivand, Alimorad Rashidi, Abdolreza Samimi, Davod Mohebbi-Kalhari Journal: Chemical Engineering Journal, 341 (2018), 164-174.
Engineering of oriented carbon nanotubes in composite materials Authors: Razieh Beigmoradi, Abdolreza Samimi, and Davod Mohebbi-Kalhari Journal: Beilstein, Journal of Nanotechnology, 9 (2018), 415-435.
A novel process for CO₂ capture from the flue gases to produce urea and ammonia Authors: Koohestanian, E., Sadeghi, J., Mohebbi-Kalhari, D., Shahraki, F. Samimi, A. Journal: Energy, 144(2018), 279-285
Forward osmosis water desalination: Fabrication of graphene oxide-polyamide/polysulfone thin-film nanocomposite membrane with high water flux and low reverse salt diffusion Author: Shokrgozar Eslah, S. ^a , Shokrollahzadeh, S., Moini Jazani, O., Samimi, A. Journal: Separation Science and Technology (Philadelphia), 53(2018),573-583
Effects of porosity and pore size distribution on mechanical strength reliability of industrial scale catalyst during preparation and catalytic test steps Authors: Zakeri, M., Samimi, A., Shafiee Afarani, M. Salehirad, A.

Journal: Particulate Science and Technology, 36(2018), 1, 96–103

An experimental-numerical investigation on the effects of macroporous scaffold geometry on cell culture parameters

Authors: Hadis Eghbali, Michele M. Nava, Gabriella Leonardi, Davod Mohebbi-Kalhari, Roberto Sebastiano, Abdolreza Samimi, Manuela T. Raimondi

Journal: Int J Artif Organs, 40(4)(2017), 185-195

Sensitivity analysis and multi-objective optimization of CO₂CPU process using response surface methodology

Authors: Koohestanian, Esmaeil, Samimi, Abdolreza, Mohebbi-Kalhari, Davod, Sadeghi, Jafar

Journal: Energy, 122(2017), 570-578.

Characteristic mechanisms controlling the reaction rate for powdered and industrial scale formed Cu/Zn/Mg/Al water gas shift nanocatalysts

Authors: Samimi, A., Salehirad, A., Vatankhah, M. J., Mohebbi-Kalhari, D.

Journal: Reaction Kinetics, Mechanisms and Catalysis, 120(2017), 489-500.

Interaction between Weibull parameters and mechanical strength reliability of industrial scale water gas shift catalysts

Authors: Zakeri, M., Samimi, A., Shafiee Afarani, M. Salehirad, A.

Journal: Particuology, 32(2017), 160-166.

Ceramic-based microbial fuel cells (MFCs): A review

Authors: Vajihe Yousefi, Davod Mohebbi-Kalhari, Abdolreza Samimi

Journal: International Journal of Hydrogen Energy, 42(2017), 1672-1690.

Novel one-pot dry method for large scale production of nano γ -Al₂O₃ from gibbsite under dry conditions

Authors: Sajad Kiani, Abdolreza Samimi, Alimorad Rashidi

Journal: Monatsh Chem, 147(7), (2016), 1153-1159,

Stability of nanofluids: Molecular dynamic approach and experimental study

Authors: H. Farzaneh, A. Behzadmehr, M. Yaghoubi, A. Samimi, S.M.H. Sarvari

Journal: Energy Conversion and Management, 111 (2016) 1-14

Effect of separator assembly (SEA) design and mode of operation on the performance of continuous tubular microbial fuel cells (MFCs)

Authors: Vajihe Yousefi, Davod Mohebbi-Kalhari, Abdolreza Samimi

Journal: International Journal of Hydrogen Energy, 41(1), (2016), 597-606.

Application of sodium bicarbonate as draw solution in forward osmosis desalination: influence of temperature and linear flow velocity

Authors: Mohammad Nematzadeh, Abdolreza Samimi & Soheila Shokrollahzadeh

Journal: Desalination and Water Treatment, 57(44), (2016), 20784-20791,

Synthesis of titania- γ -alumina multilayer nanomembranes on performance-improved alumina support for wastewater treatment

Authors: Masoud Shayesteh, Abdolreza Samimi, Mahdi Shafiee Afarani and Mohammad Khorram

Journal: Desalination and Water Treatment, 57(20), (2016) , 9115-9122
Competition Between <i>E. coli</i> and <i>Shewanella</i> sp. for Electricity Generation in Air Cathode MFC in Presence of Methylene Blue as Artificial Mediator Authors: Mohammad Reza Miroliaei, Abdolreza Samimi, Davod Mohebbi-Kalhari, Mohammad Khorram, and Ali Qasemi Journal: Environmental Progress & Sustainable Energy, 34(4), (2015) 1097-1105,
Performance of Potassium Bicarbonate and Calcium Chloride Draw Solutions for Desalination of Saline Water Using Forward Osmosis Authors: M. Nematzadeh, A. Samimi*, S. Shokrollahzadeh, A. Behzadmehr Journal: Transport Phenomena in Nano and Micro Scales 3 (2015) 29-36
Experimental and statistical assessments of the mechanical strength reliability of gamma alumina catalyst supports Authors: A. Samimi, M. Zakeri, B. Maleki, D. Mohebbi Kalhari Journal: Particulogy, 21(2015), 74-81
Kinetics investigation of diversity cultures of <i>E. coli</i> and <i>Shewanella</i> sp., and their combined effect with mediator on MFC performance Authors: M.R. Miroliaei ^a , A. Samimi ^{a,*} , D. Mohebbi-Kalhari ^a , M. Khorram Journal: Journal of Industrial and Engineering Chemistry, 25 May (2015), 42-50
Electro-spray preparation of propranolol-loaded alginate beads: Effect of matrix reinforcement on loading and release profile Authors: M. Khorram, M. Samimi, A. Samimi, H. Moghadam Journal: Applied Polymer Science, 132(4), (2015), 1-9
A Review of Fischer –Tropsch Synthesis on the Cobalt Based Catalysts Authors: M. Arsalanfar, A. A. Mirzaei, H.R. Bozorgzadeh and A. Samimi Journal: Physical Chemistry Research, 2 (2) Dec. (2014) 179-201
The effects of RF-sputtered TiO₂ top layer on pore structure of composite ceramic membrane Authors: S. Khamseh, F. Abdollahzadeh Davani, A. Samimi, Journal: Surface and Coatings Technology, 258(2014) 1256-1258
Solar absorptivity of nano-porous anodic alumina (NPAA): effects of structural features Authors: H. Moghadam, A. Samimi, A. Behzadmehr Journal: Journal of Porous Materials, 21 (2014), 331-336
Effect of support and promoter on the catalytic performance and structural properties of the Fe-Co-Mn catalysts for Fischer-Tropsch synthesis Authors: M. Arsalanfar, A. Mirzaei, H. Bozorgmehr, A. Samimi and R. Ghobadi Journal: Journal of Industrial and Engineering Chemistry, 20 (2014), 1313-1323

Insitu solvothermal crystallization of TiO₂ nanostructure on alumina granules for photocatalytic wastewater treatment

Authors: E. Khaksar, M. Shafiee Afarani and A. Samimi,

Journal: Journal of Material Engineering and Performance, 23(1), Jan. (2014)

Effect of ammonium nitrate on microstructure and permeability characteristics of tubular alumina support using slip casting fabrication method

Authors: N. Heydarian, M. Shayesteh, M. Shafiee Afarani, A. Samimi

Journal: Journal of Ceramic Processing Research, 14(4), (2013), 472-475

Effect of nanoporous anodic aluminum oxide (AAO) characteristics on solar absorptivity

Authors: H. Moghadam, A. Samimi, A. Behzadmehr

Journal: Transport Phenomena in Nano and Micro Scales, 1(2013), 110-116

Mathematical modeling of supercritical fluid extraction of oil from Canola and Sesame seeds

Authors: B. Honarvar, S. Sajadian, M. Khorram, A. Samimi

Journal: Brazilian Journal of Chemical Engineering, 30, 1(2013), 159-166

Preparation of γ -Al₂O₃ and prioritization of affecting factors on the crystallite size using Taguchi method

Authors: M. Shayesteh, M. Shafiee Afarani, A. Samimi, M. Khorram

Journal: Transport Phenomena in Nano and Micro Scales, 1(2013) 45-52

Kinetic study of CO hydrogenation on the MgO supported Fe-Co-Mn sol-gel catalyst

Authors: A. Mirzaei, A. Pourdolat, M. Arsalanfar, H. Atashi, A. Samimi

Journal: Journal of Industrial and Engineering Chemistry, 19 (2013), 1144-1152

Synthesis of alumina granules by high shear mixer granulator: Processing and sintering

Authors: M. Shafiee Afarani, A. Samimi*, E. Bahadori,

Journal: Powder Technology, 237 (2013), 32-40

Steady state electric power generation in up-flow microbial fuel cell using the estimated time span method for bacteria growth domestic wastewater,

Authors: J. Hashemi and A. Samimi*

Journal: Biomass & Bioenergy, 45 (2012), 65-76

Study Pulsating Electrospray of Non-Newtonian and Thixotropic Sodium Alginate Solution

Authors: A. Tabeei, A. Samimi*, M. Khorram, H. Moghadam

Journal: Journal of Electrostatic, 70(1), 77-82

بهسازی و تعیین درجه استیل زدایی کیتوزان با روش تیتراسیون پتانسیل سنجی و طیف نمایی زیر قرمز
نویسندگان: مرتضی حسن زاده کفشگری، محمد خرم، محسن منصوری، عبدالرضا صمیمی
مجله: شیمی و مهندسی شیمی ایران، دوره ۳۱، شماره ۲، تابستان ۱۳۹۱

مروری بر هیدرودینامیک تولید قطرات مایع به روش پاشش الکتریکی
نویسندگان: حمید مقدم دیمه و عبدالرضا صمیمی*
مجله: مهندسی شیمی ایران، سال دهم، شماره پنجاه و هشتم، ۱۳۹۰

Preparation of alginate and chitosan nanoparticles using a new reverse micellar system

Authors: Morteza Hasanzadeh Kafshgari, Mohammad Khorram*, Mohsen Mansouri, Abdolreza Samimi and Shahriar Osfouri

Journal: Iranian Polymer Journal,

Date: 1 November (2011)

Electro-Spray Modeling of High Viscous and Non-Newtonian Liquids

Authors: H. Moghadam, M. Samimi, A. Samimi, M. Khorram

Journal: Journal of Applied Polymer Science, 118(2010) 1288-1296

Date: 3 June 2010

Combined Method of Complex-Coacervation and Electrospray for Encapsulate Preparation

Authors: Omodi, J., Khorram, M. and Samimi, A.

Journal: Journal of Applied Polymer Science, 117(1), 322-328

Date: 17 March 2010

Effect of Forming on Selectivity and Attrition of Co-Precipitated Co-Mn Fischer-Tropsch Catalysts

Authors: M. Zakeria, A. Samimi, M. Khorram, H. Atashi, A. Mirzae

Journal: Powder Technology, 200(2010), 167-170

Date: 25 February 2010

CFD simulation of gas-solid bubbling fluidized bed containing FCC particles

Authors: S. H. Hosseini, R. Rahimi, M. Zivdar and A. Samimi

Journal: Korean J. Chem. Eng., 26(5) 1405-1413

Date: 1 August 2009

Comment on “Dynamic and Control of Fluidized Catalytic Crackers. 1. Modeling of the Current Generation of FCC’s”

Authors: Amin Bashi, Jafar Sadeghi, Abdolreza Samimi, and Mohammad Khorram

Journal: Ind. Eng. Chem. Res.

Date: 13 July 2009

Study parameters affecting size distribution of beads produced from electro-spray of high viscous liquids

Authors: H. Moghadam, M. Samimi, A. Samimi and M. Khorram

Journal: Iranian Journal of Chemical Engineering, Vol. 6, No. 3 (summer)

Date: 1 July 2009

CFD simulation of solid hold-up in gas-solid fluidized bed at high gas velocity

Authors: s.H. Hosseini, M. Zivdar, R. Rahimi, A. Samimi

Journal: Chemical Product and Process Modelling, 4(1)

Date: 1 May 2009

Effect of ring baffle on hydrodynamics of a gas-solid

Authors: S H Hosseini, R Rahimi, M Zivdar, and A Samimi

Journal: IMechE Vol. 223 Part C: J. Mechanical Engineering Science

Date: 17 April 2009

اثر فرآیند خشك کردن پاششی و پیوند دهنده سیلیکا در بهبود استحکام فرسایشی کاتالیزورهای هم رسوبی آهن در سنتز فیشر-تروپش

نویسنده ها: مژگان ذاکري، عبدالرضا صميمي، محمد خرم، حسين آتشي، علي اکبر ميرزااي

نشریه: مهندسي شيمي ايران

تاریخ 1389 :

Electro-spray of high viscous liquids for producing mono-sized spherical alginate beads,

Authors: Moghadam H., Samimi M., Samimi A. Khorram, M.

Journal: Particology, 6, 271-275

Date: 1 April 2008

Production of Nanoparticle Assemblies by Electro-Spraying and Freeze-Drying of colloids: A New Method to Resolve Handling Problem of Nanoparticles

Authors: Abdolreza Samimi and Mojtaba Ghadiri

Journal: Iran. J. Chem. & Chem Eng., 27(2), 69-78

Date: 1 January 2008

Measurement of charge transfer due to single particle impact

Authors: Watanabe, H., Samimi, A., Ding, Y., Ghadiri, M., Matsuyama, T., Pitt, K.G

Journal: Part. Part. Syst. Charact. 23, 133-137

Date: 12 August 2006

Single and bulk compression of soft granules: experimental study and DEM evaluation

Authors: Samimi, A., Hassanpour, A. and Ghadiri, M.

Journal: Chem. Eng. Science, 60, 3993-4004

Date: 14 September 2005

Impact damage analysis of agglomerates: Effect of impact angle

Authors: Samimi, A., Moreno, R., Ghadiri, M.

Journal: Powder Technology. 143, 97-109

Date: 2004

Effect of structural characteristics on impact breakage of agglomerates

Authors: Samimi A., Ghadiri M., Boerefijn R., Groot A. and Kohlus R.

Journal: Powder Technology, 130, 428-435

Date: 2003

Conferences

Effects of design and operating parameters on performance of microbial fuel cell: Experimental study

Authors: Jafar Abdi Alimestan,*Abdolreza Samimi, Davod Mohebbi-Kalhari, Abbas Fathizadeh

Conference: The 7th International Chemical Engineering Congress & Exhibition (IChEC 2011) Kish, Iran, 21-24 November, 2011

Date: 24 November 2011, Place: Kish Island Iran

Effect of binder concentration on structure and size distribution of Alumina granules fabricated by high shear mixer Granulator

Authors: E.Bahadori Yekta, M.ShafieeAfarani*, A.Samimi

Conference: The 7th International Chemical Engineering Congress & Exhibition (IChEC 2011) Kish, Iran, 21-24 November, 2011

Date: 24 November 2011, Place: Kish Island Iran

Estimated time span of mixed cultures for up-flow microbial fuel cell by measuring of potential difference

Authors: J. Hashemi, and *A. Samimi

Conference: The 7th International Chemical Engineering Congress & Exhibition (IChEC 2011) Kish, Iran, 21-24 November, 2011

Date: 24 November 2011, Place: Kish Island Iran

Effect of calcination temperature on photocatalytic activity of TiO₂ nanoparticles for degradation of methyl orange

Authors: Fatemeh Zahra hedayati kaliji, Masoud Shayesteh, Abdolreza Samimi *

Conference: The 7th International Chemical Engineering Congress & Exhibition (ICChEC 2011) Kish, Iran, 21-24 November, 2011

Date: 24 November 2011, Place: Kish Island Iran

Production of Consolidated LAS/Zeolite Granules in a High Shear Mixing Granulator

Authors: J. Shafizadeh, A. Rahmani, H. Moghaddam, A. Samimi

Conference: 13th Iranian National Chemical Engineering Congress

Date: 25 October 2010, Place: Kermanshah, Iran

Preparation of narrow size distribution droplets by electrospraying of low conductive styrene monomer

Authors: Hossein Zohdi, Yasin Keykha, Abdoreza Samimi, Farshad Farshchi Tabrizi

Conference: 13th Iranian National Chemical Engineering Congress

Date: 25 October 2010, Place: Kermanshah, Iran

A review of methods for preparation of narrow sized polymer beads in suspension polymerization

Authors: Yaseen keykha, Hossein Zohdi Fasayi, Farshad Farshchi Tabrizi*, Abdoreza Samimi

Conference: 13th Iranian National Chemical Engineering Congress

Date: 25 October 2010, Place: Kermanshah, Iran

Synthesis of Gamma Alumina Membrane by a Colloidal Sol-Gel Route

Authors: Amin Aliabadi, Abdolreza Samimi, Masud Shayeste, Mahdi Shafiee Afarani

Conference: 13th Iranian National Chemical Engineering Congress

Date: 25 October 2010, Place: Kermanshah, Iran

Phenol Removal From Wastewater by Nanofiltration

Authors: Amin Aliabadi, Abdolreza Samimi, Masud Shayeste, Mahdi Shafiee Afarani

Conference: The 4th Conference & Exhibition on Environment Engineering

Date: 1 October 2010, Place: Terhan, Iran

تولید شوینده های فوق متراکم به صورت قرص، مخصوص ماشین لباسشویی

Authors: مسلم دانش، عبدالرضا صمیمی، محمد خرم و عذرا عراقی

Conference: دومین همایش علوم و فناوری مواد فعال سطحی و صنایع شوینده

Date: May 2010, Place: دانشگاه صنعتی شریف

تولید شوینده های گرانبه در گرانبه های اختلاطی با برش بالا براساس سورفاکتانت آنیونیک زنولیت

Authors: جمال شفیعی زاده، ارسلان رحمانی، حمید مقدم دیمه، مسلم دانش و عبدالرضا صمیمی

Conference: زمین همایش علوم و فناوری مواد فعال سطحی و صنایع شوینده

Date: May 2010, Place: دانشگاه صنعتی شریف

Effect of type and concentration of binder on selectivity and attrition of formed Co-Mn Fischer-Tropsch Catalysts

Authors: Zakeri, M., Samimi, A., Khorram, Atashi, H

Conference: the 6th international chemical Engineering congress

Date: 25 November 2009, Place: Kish Island, Iran

Nano haloing in stabilization of colloidal microsphere

Authors: Ahmadi, S., Samimi, A. and Khorran, M

Conference: the 6th international chemical Engineering congress

Date: 25 November 2009, Place: Kish Island, Iran

Extraction of conola oil with supercritical carbon dioxide; experimental and modeling

Authors: Sajadian, S. A., Khorram, M., Honarvar, B. and Samimi, A

Conference: the 6th international chemical Engineering congress

Date: 25 November 2009, Place: Kish Island, Iran

استخراج روغن از دانه روغنی کلزا با استفاده از سیال فوق بحرانی دی اکسید کربن و مدل سازی فرآیند

Authors: سید علی سجادیان، محمد خرم، عبدالرضا صمیمی و بیژن هنرور

Conference: اولین کنفرانس علوم و مهندسی جدا سازی

Date: 29 April 2009, Place: دانشگاه شهید با هنر کرمان

بررسی اثر نانو سیلیس بر خواص مکانیکی بتن سبک

Authors: حامد خسته بند، محمد رضا سهرابی و عبدالرضا صمیمی

Conference: مهندسی عمران هشتمین کنگره بین المللی

Date: 21 April 2009, Place: دانشگاه شیراز

Preparation of core-shell beads based on chitosan using combined method of electro-spray and complex coacervation,

Authors: Omodi, J., Khorram, M. and Samimi, A.,

Conference: 12th National Conference of Chemical Engineering,

Date: 20 October 2008, Place: Tabriz, Iran

Kinetic modelling of Cu⁺² adsorption on chitosan

Authors: M. Hasanzadeh, M. Khorram, A. Samimi and S. Asfour

Conference: 12th National Conference of chemical Engineering

Date: 12 October 2008, Place: Tabriz, Iran

Preparation of core shell beads based on chitosan using combined method of electrospray and coaxial nozzle

Authors: J. Omid, M.Khorram, A. Samimi and E. Vasheghani

Conference: 12th National Conference of Chemical Engineering,

Date: 12 October 2008, Place: Tabriz, Iran

CFD simulation of gas solid flow in freely bubbling fluidized bed containing FCC particles

Authors: S. Hosseini, R. Rahimi, M. Zivdar and A. Samimi

Conference: Fluid Dynamics Conference

Date: 28 May 2008, Place: Tehran, Iran

Electro-spray modelling of high viscous and no-Newtonian fluids

Authors: M. Moghadam, M. Samimi, A. Samimi, and M. Khorram

Conference: 21st. Annual Conference on Liquid Atomization and Spray Systems

Date: 18 May 2008, Place: Orlando, Florida, USA

Study parameters affecting size distribution of beads produced from electro-spray of high viscous liquids

Authors: Moghadam H., Samimi M., Samimi A. and Khorram M.,

Conference: IChEC2008

Date: 2 January 2008, Place: Kish Island, Iran

Electro-Phoretic Deposition of Colloidal Co-Cr-Mo Nano-Particles: A method to prevent dispersion of corrosion products of metal implants in human body

Authors: Abdolreza samimi, Mojtaba Ghadiri, Sophie Williams, Ian Leslie and John Fisher

Conference: Chemeca 2007

Date: 23 September 2007, Place: Melborn, Australia

Evaluation of Electrostatic Drop Making of Sodium-Alginate Liquids for Manufacturing of Gel Type Beads

Authors: A. Samimi and M. Ghadiri

Conference: Chemeca 2007

Date: 23 September 2007, Place: Melbourne, Australia

Electro-Spray of High Viscous Liquids for Production of Mono-Sized and Spherical Alginate Beads

Authors: H. Moghadam, M. Samimi, A.Samimi and M. Khorram

Conference: APT 2007

Date: 3 September 2007, Place: Beijing, China

Combined process of electro-spray and freeze drying for production of nanoparticle assemblies with view of redispersion

Authors: Samimi, A., and Ghadiri M.

Conference: 10th Iranian Conference of Chemical Engineering

Date: 2005, Place: Zahedan, Iran

Tribo-electrification of pharmaceutical powders

Authors: Watanabe, H., Samimi, A., Ding, Y., Ghadiri, M., Matsuyama, T., Pitt, K.G., Marayama H. Matsusaka, S. and Masuda H.

Conference: SPTJ Conference

Date: 2005, Place: Osaka, Japan.

Measurement of charge transfer due to single particle impact” In Proc. of Particulate System Analysis Conference

Authors: Watanabe, H., Samimi, A., Ding, Y., Ghadiri, M., Matsuyama, T., Pitt, K.G.

Conference: Particulate System Analysis Conference

Date: 2005, Place: Stratford-Upon-Avon, UK

Characterisation of dispersion behaviour of powders in liquids

Authors: Golard, C., Samimi, A., Galet, L., Dodds, J.A. and Ghadiri, M.

Conference: Particulate Systems Analysis

Date: 2005, Place: Stratford-Upon-Avon, U.K

Electrification of pharmaceutical powders due to a single impact with a metal plate

Authors: Watanabe, H., Samimi, A., Ding, Y., Ghadiri, M., Matsuyama, T. and Pitt, K.G

Conference: International Conference on Micromechanics and Granular Media

Date: 2004, Place: Stuttgart, Germany

Measurement of Tribo-Charging by Particle Impact

Authors: Watanabe, H., Samimi, A., Ding, Y., Ghadiri, M., Matsuyama, T. and Pitt, T. K.G

Conference: 9th. International Conference Multiphase Flow in Industrial Plants

Date: 2004, Place: Rome, Italy

Breakage of soft granules under uniaxial bulk compression and impact conditions

Authors: Samimi A., Boerifijn R., Ghadiri M. and Kohlus R.

Conference: 4th World Congress on Powder Technology

<p><u>Date:</u> 2002, <u>Place:</u> Sydney, Australia</p>
<p>Effect of humidity and fatigue on impact breakage of agglomerates <u>Authors:</u> Samimi A., Ghadiri M., Boerefijn R. and Groot A. <u>Conference:</u> International Congress for Particle Technology <u>Date:</u> 2001, <u>Place:</u> Nuremberg, Germany</p>
<p>Effect of structural characteristics on impact breakage of agglomerates <u>Authors:</u> Samimi A., Ghadiri M., Boerifijn R., Groot A. and Kohlus R. <u>Conference:</u> 7th. International Symposium on agglomeration <u>Date:</u> 2001, <u>Place:</u> Albi, France</p>
<p>Effect of bond characteristics on impact breakage of agglomerates <u>Authors:</u> Samimi A. and Ghadiri M. <u>Conference:</u> 8th. Iranian Students' Seminar in Europe <u>Date:</u> 2000, <u>Place:</u> Umist, Manchester, UK</p>
<p>Effect of the humidity and fatigue on impact breakage of agglomerates <u>Authors:</u> Samimi, A., Ghadiri, M., Boerifijn R. and Groot A. <u>Conference:</u> Particle Technology Forum 3 <u>Date:</u> 2000, <u>Place:</u> Birmingham, UK</p>
<p>Investigation of factors affecting formation of floating slime in copper electro-refining <u>Authors:</u> Samimi, A. Esmail-Zadeh, E., Moeiny, A. Atash-Dehghan, R. and Vaghar, R. <u>Conference:</u> 4th Iranian Conference of Chemical Engineering <u>Date:</u> 1999, <u>Place:</u> Sharif University, Tehran, Iran</p>
<p>Modelling and metallurgical design of process of copper solvent extraction <u>Authors:</u> Samimi, A. Atash-Dehghan, R., Daneshpajoh, S. and Soltani, M. <u>Conference:</u> 4th Iranian Conference of Chemical Engineering <u>Date:</u> 1999, <u>Place:</u> Sharif University, Tehran, Iran</p>
<p>Design and construction of an electrolysis cell: considering industrial operational criteria of Sarcheshmeh refinery <u>Authors:</u> Atash-Dehghan, R., Rahimi, A. and Samimi, A. <u>Conference:</u> 3rd Iranian Conference of Chemical Engineering of Iran <u>Date:</u> 1997, <u>Place:</u> Ahvaz, Iran</p>
<p>Hydro-metallurgical study on copper oxide minerals <u>Authors:</u> Samimi, A. <u>Conference:</u> 1st. Seminar of Non-ferrous Metallurgy</p>

Date: 1995, Place: Sarcheshmeh, Kerman, Iran

Memberships

Member, Institute of Chemical Engineers (IChemE), and Particle Technology Subject Group, U.K.

Date : 1999-2004

President of Iranian Society of University of Surrey, U.K.

Date : 2000-2001

Research Interests

Application of membrane technology in water and wastewater treatment, gas separation, drug release and Fuel cells

Molecular and structural design of Nano-particle assemblies for controlled release or catalytic applications

DEM modelling of granular media.

Mechanical properties characterisation of particulate solids

Breakage and attrition of particles.

Compression behaviour of bulk particles.

Granulation of powders.

Electrostatic charge effect on particles, liquids and colloidal Nano-fluids.

Research Projects

Molecular and Structural Design of Nano-Particle Assemblies for Controlled Release

Researcher : Samimi, A., Ding, Y., and Ghadiri, M.

Start Date : 2003 , End Date : 2005

Place : University of Leeds, UK

Effect of Electrostatic Charge on Drop Making for Production of Alginate Beads

Researcher : Samimi, A. and Ghadiri, M.

Start Date : 2004 , End Date : 2005

Place : University of Leeds, UK

Electro-Phoretic Deposition (EPD) of Colloidal Co-Cr-Mo Nano-Particles

Researcher : Samimi, A. and Ghadiri, M.

Start Date : 2005 , End Date : 2005

Place : University of Leeds, UK

Bio-Leaching of Sulphide Copper Minerals

Researcher : Samimi, A. and Atashy, H.

Start Date : 1995 , End Date : 1996

Place : University of Sistan and Baluchestan, Iran

Investigating Influencing Parameters on Floating Slime Formation in Copper Electro-Refining

Researcher : Samimi, A. Esmail-Zadeh, E., Atash-Dehghan, R.

Start Date : 1998 , End Date : 1999

Place : University of Sistan and Baluchestan, Iran

Know how codification for production of high density detergent tablets

Researcher : Samimi, A., Khorram M and Danesh A.

Start Date : 2008 , End Date : 2009

Place : University of Sistan and Baluchestan, Iran

Design and synthesis of ceramic composite membranes for water purification

Researcher : Samimi, A., Khorram, M. Shafiee, M, Behzadmehr, A., Shayesteh, M.

Start Date : 2008 , End Date : ongoing

Place : University of Sistan and Baluchestan, Iran

Stabilization of macro-spheres by nanoparticles

Researcher : Samimi, A., Khorram, M, and Ahmadi, S.

Start Date : 2008 , End Date : 2009

Place : University of Sistan and Baluchestan, Iran

Electro-hydrodynamics study of high viscous liquids and suspensions

Researcher : Samimi, A. Khorram, M and Moghadam, M.

Start Date : 2006 , End Date : 2008

Place : University of Sistan and Baluchestan, Iran

Effect of Silica Binder on Attrition Resistance and Reaction Selectivity of Agglomerated Co-Mn Catalyst in Fischer Tropsch Synthesis

Researcher : Samimi, A., Khorram, M., Zakeri, M., Atashy, H., Mirzaie, A.A.

Start Date : 2008 , End Date : 2009

Place : University of Sistan and Baluchestan, Iran

Skills

- Refereed a number of papers for international journals such as Chemical Engineering Science.
- Managed a group for design, construction, commissioning, calibration and delivery of 5 prototype Single Particle Impact Test rigs at the University of Surrey, The impact test rigs were acquired by a number of companies in Europe and USA (2001-2003).
- Supervised final year projects of a number of MEng students, University of Leeds, U.K. (2003-2005).
- Tutorial of Mass and Energy Balance module, University of Leeds, U.K. (2004-2005).
- Experimental Skills in: Mechanical testing machine (Instron),
- Nano-indentation and Nano-crusher device,
- Single Particles Impact Rig (Developed at the University of Surrey),
- X-ray Micro-Tomography of particles, Scanning Electron Microscope (SEM), Transmission Electron Microscope (TEM),
- Malvern Master- and Nano-Sizer, Optical Microscope,
- High Speed Video Camera, Automatic Motion and Image Analyser based on Image Pro software.

Work Experience

Professor of Chemical Engineering (Particle Technology)
University of Sistan and Baluchestan, Zahedan, Iran
Date: 2016-Ongoing

Chairman of Khwarazmi International Award (KIA)
Iranian Research Organization for Science and Technology
Date: 2014 – 2016

Editor-in-Chief of Journal of Particle Science and Technology
Iranian Research Organization for Science and Technology
Date: 2014 - Ongoing

Vice-President for Technology Development
Iranian Research Organization for Science and Technology
Date: 2011- 2016

Associate Professor (on mission from University of Sistan and Baluchestan)

<p>Department of Green Technologies, Iranian Research Organization for Science and Technology Date: 2011-2016</p>
<p>Dean Faculty of Engineering, University of Sistan and Baluchestan, Iran <u>Date</u>: 2006-2011</p>
<p>Deputy Dean for Finance and Administration Affairs Faculty of Engineering, University of Sistan and Baluchestan, Iran <u>Date</u>: 2005-2006</p>
<p>Research Fellow (Post-Doc) Institute of Particle Science and Engineering, School of Engineering, University of Leeds, UK. <u>Date</u>: 2003-2005</p>
<p>Head of Department of Chemical Engineering University of Sistan and Baluchestan, Iran <u>Date</u>: 1994-1999</p>
<p>Associate Professor University of Sistan and Baluchestan, Iran, Date: 2008-Ongoing</p>
<p>Assistant Professor University of Sistan and Baluchestan Date: 2005-2008</p>
<p>Lecturer Univeristy of Sistan and Baluchestan Date: 1990-1998</p>
<p>Superintendent Assistant of Copper Refinery Sar-Cheshmeh Copper Complex (NICICo), Kerman, Iran <u>Date</u>: 1987-1990</p>
<p>Superintendent of Mine and Lime Plant Sand-Lime Brick Co, Iranshar, Iran, <u>Date</u>: 1985-1987</p>