



## Abdolreza Samimi Professor

Faculty : Engineering

Departments : chemical engineering

Phone : +9854 - 31136459

Email : a.samimi@eng.usb.ac.ir

Address : Dept.of chemical engineering , Faculty of Engineering,  
University of Sistan and Baluchestan, Daneshgah Ave., Zahedan,  
Iran.

## Education

- ✓ MS, Chemical Engineering, University of Tehran - 1993
- ✓ PhD, Chemical Engineering, University of Surrey UK - 2003

## Courses

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|--------------------------------|-------------------|
| 1. Material and energy balance | 2. Nano Materials |
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## Thesis

### 1. swro

سینا آقاملانی, [Abdolreza Samimi]

## Master Thesis

### 1. Experimental study of metal-organic framework preparation for heavy metal removal from industrial wastewater

پری سلطانی [Mozhgan Zakeri, Abdolreza Samimi, Azadeh Agah]

نیمسال اول سال تحصیلی ۹۰-۹۹

### 2. study parameters affecting separation of dispersed oil in water with induced gas flotation method

سجاد بهادر [Abdolreza Samimi, Davod Mohebbi Kalhori]

نیمسال اول سال تحصیلی ۹۹-۹۰

### 3. Foam shape ceramic membrane to improve performance of microbial fuel cell

محبوبه خادمی [Davod Mohebbi Kalhori, Abdolreza Samimi, ]

نیمسال اول سال تحصیلی ۹۰-۹۹

### 4. synthesis and study the performance of MD membrane for desalination from RO wastewater

احسان کیانی علی ابادی [Abdolreza Samimi, Davod Mohebbi Kalhori, H J]

نیمسال دوم سال تحصیلی ۹۹-۹۸

### 5. Improving the thermal performance of the hybrid vehicle lithium-ion battery by simulating heat transfer

رضا توکلی [Davod Mohebbi Kalhori, Abdolreza Samimi]

نیمسال دوم سال تحصیلی ۹۹-۹۸

### 6. The possibility of using waste heat in brayton cycle in desalinating units with zero liquid discharging and cooling prodution

علیرضا پیمانی فروشانی [Jafar Sadeghi, Farhad Shahraki, Abdolreza Samimi]

نیمسال اول سال تحصیلی ۹۹-۹۸

### 7. Pre-treatment of inlet water to reverse osmosis system of parsian gas refining company using capacitive deionization method in order to increase produced freshwater efficiency and reduce effluent.

محمد رضا رمضانپور [Abdolreza Samimi, , Davod Mohebbi Kalhori]

نیمسال اول سال تحصیلی ۹۹-۹۸

### 8. Effect of microalgae to improve performance of microbial fuel cell to green energy production

غلامرضا نجفی [Davod Mohebbi Kalhori, Abdolreza Samimi]

نیمسال اول سال تحصیلی ۹۹-۹۸

### 9. study parameters affecting separation of dispersed oil in water with induced gas flotation method

سجاد بهادر [Abdolreza Samimi, Davod Mohebbi Kalhori]

نیمسال اول سال تحصیلی ۹۹-۹۸

### 10. synthesis and study the performance of MD membrane for desalination from RO wastewater

احسان کیانی علی ابادی [Abdolreza Samimi, Davod Mohebbi Kalhori, H J]

نیمسال اول سال تحصیلی ۹۹-۹۸

### 11. Removing of mixed pollutant gases from air using composite zeolite / activated carbon paking in a biofilter

فائزه صنعتگر قوچانی [Davod Mohebbi Kalhori, Abdolreza Samimi, L L]

نیمسال اول سال تحصیلی 98-99

## 12. Foam shape ceramic membrane to improve performance of microbial fuel cell

محبوبه خادمی [Davod Mohebbi Kalhori, Abdolreza Samimi, ]

نیمسال اول سال تحصیلی 98-99

## 13. Mathematical modeling of drug release from anodic surfaces coating with nanofiber matrix in orthopedic implants

سمیه خیرخواه [Davod Mohebbi Kalhori, Abdolreza Samimi, H J]

نیمسال اول سال تحصیلی 98-99

## 14. The possibility of using waste heat in brayton cycle in desalinating units with zero liquid discharging and cooling prodution

علیرضا پیمانی فروشانی [Jafar Sadeghi, Farhad Shahraki, Abdolreza Samimi]

نیمسال اول سال تحصیلی 98-99

## 15. Experimental study the parameters affecting seeding granulation of melt urea

علی کیخسروانی [Abdolreza Samimi, Davod Mohebbi Kalhori, Mozhgan Zakeri]

نیمسال دوم سال تحصیلی 97-98

## 16. The possibility of using waste heat in brayton cycle in desalinating units with zero liquid discharging and cooling prodution

علیرضا پیمانی فروشانی [Jafar Sadeghi, Farhad Shahraki, Abdolreza Samimi]

نیمسال دوم سال تحصیلی 97-98

## 17. The possibility of using waste heat in brayton cycle in desalinating units with zero liquid discharging and cooling prodution

علیرضا پیمانی فروشانی [Jafar Sadeghi, Farhad Shahraki, Abdolreza Samimi]

نیمسال دوم سال تحصیلی 97-98

## 18. vvv

محمد عرفانیان طوفی [Seyed Arman Hashemi Monfared, Abdolreza Samimi, Bahareh Pirzadeh]

نیمسال دوم سال تحصیلی 96-97

## 19. CO2- CPU

اسماعیل کوهستانیان [Jafar Sadeghi, Davod Mohebbi Kalhori, Farhad Shahraki, Abdolreza Samimi]

نیمسال دوم سال تحصیلی 96-97

## 20. ssde

محمد عرفانیان طوفی [Seyed Arman Hashemi Monfared, Bahareh Pirzadeh, Abdolreza Samimi]

نیمسال اول سال تحصیلی 96-97

## 21. preparation of electrospun nanofibrous scaffold based on polypyrrole conductive polymer for tissue engineering applications

مریم زارعی [Abdolreza Samimi, Mohammad Khorram, A A]

نیمسال اول سال تحصیلی 96-97

## 22. study the effect of magnetic field on electrohydrodynamics atomization and alignment of polymer

یاسین مودفرد [Abdolreza Samimi, Hamed Khosravi, H J]

نیمسال اول سال تحصیلی 96-97

## 23. study on synthesis of carbon nano tubes on polymer substrates using plasma enhanced chemical vapor deposition for water treatments membrane fabrication

سید محمد هادی نبوی [Abdolreza Samimi, H J, H J]

نیمسال اول سال تحصیلی ۹۵-۹۴

#### 24. Synthesis of alumina granules using high shear mixer

احسان بهادری یکتا [Mahdi Shafiee Afarani, Abdolreza Samimi]

نیمسال اول سال تحصیلی ۹۰-۹۹

## Journals Papers

### 2023

#### 1. Microalgal biofouling formation on tubular cellulose-ester membranes during dewatering by forward osmosis

Salma Karamad yazdanabad, Yolanda Soriano Jerez, Abdolreza Samimi, Soheila Shokrollahzadeh, Davod Mo BIOFOULING Volume: (39) 371 - 384

#### تأثیر تلفیق میدان مغناطیسی و پاشش الکتریکی بر جهت گیری نanolوله های کربنی در ذرات جاذب 2. کامپوزیتی هسته-پوسته آلزینات و حذف متیلن بلو

Yassin Moayedfard, Abdolreza Samimi, Hamed Khosravi, Beigmoradi Razieh  
Volume: (42) 17 - 32

#### 3. Performance evaluation of novel ml-scale microbial fuel cells using different polymeric hollow-fiber membranes

, Vajihe Yousefi, Davod Mohebbi Kalhori, Abdolreza Samimi  
Journal of Water Process Engineering Volume: (55) 104064-1 - 104064-12

#### 4. Nutrients removal from raw municipal wastewater using Chlorella vulgaris microalgae

Hidis Mostafaei, Abdolreza Samimi, Soheila Shokrollahzadeh, Salma Karamad yazdanabad, Ali Sheikhenej  
Advances in Environmental Technology Volume: (9) 47 - 57

### 2022

#### 5. Forward osmosis dewatering of seawater and pesticide contaminated effluents using the commercial fertilizers and zinc-nitrate blend draw solutions

, Abdolreza Samimi, Davod Mohebbi Kalhori, Soheila Shokrollahzadeh, Yasamin Bide  
SCIENCE OF THE TOTAL ENVIRONMENT Volume: (820) 153376-1 - 153376-10

#### 6. Connection a vapor jet refrigeration system to a steam injected gas turbine

, Jafar Sadeghi, Farhad Shahraki, Abdolreza Samimi  
ENERGY Volume: (261) 125246 -

### 2021

#### 7. Fabrication and characterization of conductive polypyrrole/chitosan/collagen electrospun nanofiber scaffold for tissue engineering application

Maryam Zarei, Abdolreza Samimi, Mohammad Khorram, Mahnaz M. Abdi, Seyyed Iman Golestaneh  
INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES Volume: (168) 175 - 186

#### 8. Controllability of the hydrophilic or hydrophobic behavior of the modified polysulfone electrospun nanofiber mats

, Abdolreza Samimi, Davod Mohebbi Kalhori

POLYMER TESTING Volume: (93) 106970 -1 - 106970 -12

#### 9. Microalgae biomass dewatering by forward osmosis: Review and critical challenges

Salma Karamad yazdanabad, Abdolreza Samimi, Soheila Shokrollahzadeh, Davod Mohebbi Kalhori, Nasrin M

Algal Research-Biomass Biofuels and Bioproducts Volume: (56) 102323 -1 - 102323-17

#### 10. New Process Flowsheet for CO<sub>2</sub> Compression and Purification Unit; Dynamic Investigation and Control

, Jafar Sadeghi, Davod Mohebbi Kalhori, Farhad Shahraki, Abdolreza Samimi

Iranian Journal of Chemistry and Chemical Engineering Volume: (40) 593 - 604

#### 11. Experimental evaluation of parameters affecting the coating performance of urea seeds in a prototype bottom external mixing spray two-fluid nozzle fluidized bed granulator

, Ali Keikhosravani, Abdolreza Samimi, Davod Mohebbi Kalhori, Mozhgan Zakeri

CHEMICAL ENGINEERING RESEARCH and DESIGN Volume: (172) 242 - 253

#### 12. A mesoporous melamine/chitosan/activated carbon biocomposite: Preparation, characterization and its application for Ni (II) uptake via ion imprinting

Sayed reza Mousavie qeydari, Abdolreza Samimi, Davod Mohebbi Kalhori, Ebrahim Ahmadi

INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES Volume: (188) 126 - 136

#### 13. Study of the Youngs modulus and failure strength of binary polymer composite structures based on polyurethane based on stress-strain curve for tissue engineering vascular

, Davod Mohebbi Kalhori, Afra Hadjizadeh, Abdolreza Samimi

Volume: (12) 141 - 150

#### 14. Stability of Nanofluid-Surfactants as Volumetric Receivers in Parabolic Trough Solar Collectors; a Molecular Dynamic Approach

Hamed Farzaneh, Amin Behzadmehr, Abdolreza Samimi

Transport Phenomena in Nano and Micro Scales Volume: (9) 109 - 116

#### 15. Characterization of Fresh and Regenerated Industrial Hydrocracking Catalysts; Study Causes of Deactivation

Salman Hajian ghayemi, Abdolreza Samimi, Masoud Nematollahi

Iranian Journal of Chemistry and Chemical Engineering Volume: (40) 1765 - 1776

## 2020

#### 16. Effect of synthesis method on structural and physical properties of MgO/MgAl<sub>2</sub>O<sub>4</sub> nanocomposite as a refractory ceramic

Hamidreza Shafiee, Alireza Salehirad, Abdolreza Samimi

APPLIED PHYSICS A-MATERIALS SCIENCE and PROCESSING Volume: (126) 1 - 9

**17. Start-up investigation of the self-assembled chitosan/montmorillonite nanocomposite over the ceramic support as a low-cost membrane for microbial fuel cell application**

, Davod Mohebbi Kalhori, Abdolreza Samimi

INTERNATIONAL JOURNAL OF HYDROGEN ENERGY Volume: (45) 4804 - 4820

**18. CFD modeling of an industrial scale two-fluid nozzle fluidized bed granulator**

, Abdolreza Samimi, Davod Mohebbi Kalhori

CHEMICAL ENGINEERING RESEARCH and DESIGN Volume: (159) 605 - 614

**19. Effect of corrugated structure on the collapsing of the small-diameter vascular scaffolds**

Saeed Akbari, Davod Mohebbi Kalhori, Abdolreza Samimi

JOURNAL OF BIOMATERIALS APPLICATIONS Volume: (34) 1355 - 1367

**20. Application of halophilic microorganisms in osmotic membrane bioreactor (OMBR) for reduction of volume and organic load of produced water**

Razieh Ahmadizadeh, Soheila Shokrollahzadeh, Seyed Mahdi Latifi, Abdolreza Samimi, Alireza Pendashteh

Journal of Water Process Engineering Volume: (37) 101422-1 - 101422-9

**21. Application of a Novel Surfactant-Modified Natural Nano-Zeolite for Removal of Heavy Metals from Drinking Water**

, Alireza Rezvani, Abdolreza Samimi, Masoud Shayesteh

advanced journal of chemistry-section a Volume: (3) 612 - 620

**22. Fabrication and characterization of a novel compliant small-diameter PET/PU/PCL triad-hybrid vascular graft**

, Davod Mohebbi Kalhori, Abdolreza Samimi, Afra Hadjizadeh, Gholam Hossein Kazemzadeh

Biomedical Materials Volume: (15) 055004-1 - 055004-16

**23. Comparative Study on the Harvesting of Marine Chlorella vulgaris Microalgae from a Dilute Slurry Using Autoflocculation-Sedimentation and Electrocoagulation-Flotation Methods**

Zahra Pishgar, Abdolreza Samimi, Davod Mohebbi Kalhori, Soheila Shokrollahzadeh

International Journal of Environmental Research Volume: (14) 615 - 628

**24. Synergistic effect of amino-acids and metal salts as draw solutions to enhance the performance of fertilizer-drawn forward osmosis**

, Soheila Shokrollahzadeh, Abdolreza Samimi, Davod Mohebbi Kalhori

Environmental Science-Water Research and Technology Volume: (6) 3121 - 3131

**25. Improving the Antibacterial and Biofilm properties of Urinary Catheters by Using Green Tea and Ziziphora Extracts**

, Davod Mohebbi Kalhori, Abdolreza Samimi, Reza Karazhyan

Volume: (8) 381 - 396

## 2019

### 26. Optimization of calcium alginate beads production by electrospray using response surface methodology

Mozhgan Zakeri, Hamid Moghadam Deymeh, Abdolreza Samimi, Davod Mohebbi Kalhori

Materials Research Express Volume: (6) 095412 -

### 27. شبیه سازی - بهینه سازی منابع آب، با هدف حداقل سازی عدم تامین نیازها و حداقل سازی برداشت از منابع آب های زیرزمینی (مطالعه موردی حوضه زاهدان)

Mohammad Erfanian zorofi, Seyed Arman Hashemi Monfared, Abdolreza Samimi, Bahareh Pirzadeh

Volume: (6) 593 - 609

### 28. Mono-Size Distribution Index (MSDI): A new criterion for the quantitative description of size distribution

Hamid Moghadam Deymeh, Mozhgan Zakeri, Abdolreza Samimi

Journal of Particle Science and Technology Volume: (5) 71 - 76

### 29. Equivalent Electrical Circuit Modeling of Ceramic-Based Microbial Fuel Cells Using the Electrochemical Impedance Spectroscopy (EIS) Analysis

, Davod Mohebbi Kalhori, Abdolreza Samimi

Journal of Renewable Energy and Environment Volume: (6) 21 - 28

### 30. Preparation and characteristics evaluation of zeolite/activated carbon composite granules, using high shear mixer granulator

Elham Narooei, Davod Mohebbi Kalhori, Abdolreza Samimi, Mortaza Zivdar

Materials Research Express Volume: (6) 125532-1 - 125532-12

### 31. A comparative study of the effect of compost/woodchips mixture, natural zeolite and zeolite/activated carbon mixture as packing materials on the biofilter performance

Elham Narooei, Davod Mohebbi Kalhori, Abdolreza Samimi, Mortaza Zivdar

Advances in Environmental Technology Volume: (5) 67 - 75

### 32. Bentazon removal from aqueous solution by reverse osmosis; optimization of effective parameters using response surface methodology

, Abdolreza Samimi, Soheila Shokrolahzadeh, Davod Mohebbi Kalhori

Advances in Environmental Technology Volume: (5) 193 - 201

## 2018

### 33. A novel process for CO<sub>2</sub> capture from the flue gases to produce urea and ammonia

, Jafar Sadeghi, Davod Mohebbi Kalhori, Farhad Shahraki, Abdolreza Samimi

ENERGY Volume: (144) 279 - 285

**34. Forward osmosis water desalination Fabrication of graphene oxide-polyamide/polysulfone thin-film nanocomposite membrane with high water flux and low reverse salt diffusion**

, soheila shokrollahzadeh, , Abdolreza Samimi

SEPARATION SCIENCE AND TECHNOLOGY Volume: (53) 573 - 583

**35. Effects of porosity and pore size distribution on mechanical strength reliability of industrial-scale catalyst during preparation and catalytic test steps**

, Abdolreza Samimi, Mahdi Shafee Afarani,

PARTICULATE SCIENCE AND TECHNOLOGY Volume: (36) 96 - 103

**36. Synthesis and adsorption performance of a modified micro-mesoporous MIL- 101(Cr) for VOCs removal at ambient conditions**

, , , Abdolreza Samimi, Davod Mohebbi Kalhori

CHEMICAL ENGINEERING JOURNAL Volume: (341) 164 - 174

**37. Fabrication of polymeric nanofibrous mats with controllable structure and enhanced wetting behavior using one-step electrospinning**

, Abdolreza Samimi, Davod Mohebbi Kalhori

POLYMER Volume: (143) 271 - 280

**38. Application of layer-by-layer assembled chitosan/montmorillonite nanocomposite as oxygen barrier film over the ceramic separator of the microbial fuel cell**

, Davod Mohebbi Kalhori, Abdolreza Samimi

ELECTROCHIMICA ACTA Volume: (283) 234 - 247

**39. Small-diameter vascular graft using co-electrospun composite PCL/PU nanofibers**

, Davod Mohebbi Kalhori, Abdolreza Samimi, Afra Hadjizadeh, Gholam Hossein Kazemzadeh

Biomedical Materials Volume: (13) 055014 -

**40. Engineering of oriented carbon nanotubes in composite materials**

, Abdolreza Samimi, Davod Mohebbi Kalhori

Beilstein Journal of Nanotechnology Volume: (9) 415 - 435

**41. Forward osmosis water desalination: Fabrication of graphene oxide-polyamide/polysulfone thin-film nanocomposite membrane with high water flux and low reverse salt diffusion**

Shahrzad Shokrgozar Eslah, Soheila Shokrollahzadeh, Omid Moini Jazani, Abdolreza Samimi

SEPARATION SCIENCE AND TECHNOLOGY Volume: (53) 573 - 583

## 2017

### 42. Sensitivity analysis and multi-objective optimization of CO<sub>2</sub>CPU process using response surface methodology

, Abdolreza Samimi, Davod Mohebbi Kalhori, Jafar Sadeghi

ENERGY Volume: (122) 570 - 578

### 43. Ceramic-based microbial fuel cells (MFCs) A review

, Davod Mohebbi Kalhori, Abdolreza Samimi

INTERNATIONAL JOURNAL OF HYDROGEN ENERGY Volume: (42) 1672 - 1690

### 44. Interaction between Weibull parameters and mechanical strength reliability of industrial-scale water gas shift catalysts

, Abdolreza Samimi, Mahdi Shafee Afarani,

Particuology Volume: (32) 160 - 166

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

Abdolreza Samimi, , Amir Vatankhah, Davod Mohebbi Kalhori

Reaction Kinetics Mechanisms and Catalysis Volume: (120) 489 - 500

### 46. experimental-numerical investigation on the effects of macroporous scaffold geometry on cell culture parameters

, Abdolreza Samimi

INTERNATIONAL JOURNAL OF ARTIFICIAL ORGANS Volume: (4) 185 - 195

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

Hadis Eghbali, nava Michele, Gabriella Leonardi Leonardi, Davod Mohebbi Kalhori, Roberto Sebastiani,

INTERNATIONAL JOURNAL OF ARTIFICIAL ORGANS Volume: (40) 185 - 195

### 48. Evaluation of Biocompatibility and Reaction of the Immune System of the Rat with the Single and Composite Electrospun Nanofiber Structures (PCL/PU) for Tissue Engineering Applications.

, Davod Mohebbi Kalhori, Gholamhossein Kazemzadeh, Abdolreza Samimi

Volume: (8) 242 - 249

## 2016

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

, Davod Mohebbi Kalhori, Abdolreza Samimi,

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INTERNATIONAL JOURNAL OF HYDROGEN ENERGY Volume: (41) 597 - 606

**50. Synthesis of titania--alumina multilayer nanomembranes on performance-improved alumina supports for wastewater treatment**

Masoud Shayesteh, Abdolreza Samimi, Mahdi Shafiee Afarani,  
Desalination and Water Treatment Volume: (20) 9115 - 9122

**51. Novel one-pot dry method for large-scale production of nano c-Al<sub>2</sub>O<sub>3</sub> from gibbsite under dry conditions**

Sajad Kiani, Abdolreza Samimi,  
MONATSHEFTE FUR CHEMIE Volume: (147) 1153 - 1159

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

Mohammad Nematzadeh, Abdolreza Samimi,  
Desalination and Water Treatment Volume: (57) 20784 - 20791

**53. Stability of nanofluids Molecular dynamic approach and experimental study**

, Amin Behzadmehr, M . Yaghoubi, Abdolreza Samimi, S.M.H . Sarvari  
ENERGY CONVERSION AND MANAGEMENT Volume: (111) 1 - 14

## 2015

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**54. Experimental and statistical assessments of the mechanical strength reliability of gamma alumina catalyst supports**

Abdolreza Samimi, , Basir Maleki, Davod Mohebbi Kalhori  
Particuology Volume: () 74 - 81

**55. Synthesis of titania-gama-alumina multilayer nanomembranes on performance-improved alumina supports for wastewater treatment**

, Abdolreza Samimi, Mahdi Shafiee Afarani,  
Desalination and Water Treatment Volume: () 1 - 8

**56. Kinetics investigation of diversity cultures of E. coil and Shewanella SP., and their combined effect with mediator on MFC performance**

, Abdolreza Samimi, Davod Mohebbi Kalhori,  
JOURNAL OF INDUSTRIAL AND ENGINEERING CHEMISTRY Volume: () 45 - 50

**57. Electrospray preparation of propranolol-loaded alginate beads: Effect of Matrix Reinforcement on loading and release profile**

m khorram, , Abdolreza Samimi, Hamid Moghadam Deymeh  
JOURNAL OF APPLIED POLYMER SCIENCE Volume: () 1 - 9

**58. Performance of potassium bicarbonate and Calcium Chloride draw solutions for desalination of saline water using forward osmosis**

, Abdolreza Samimi, , Amin Behzadmehr

Transport Phenomena in Nano and Micro Scales Volume: () 29 - 36

**59. Competition between *E. coli* and *shewanella* sp. for electricity generation in air cathode MFC in presence of methylene blue as artificial mediator**

, Abdolreza Samimi, Davod Mohebbi Kalhori, ,

Environmental Progress and Sustainable Energy Volume: (34) 1097 - 1105

## 2014

**60. In Situ Solvothermal Crystallization of TiO<sub>2</sub> Nanostructure on Alumina Granules for Photocatalytic Wastewater Treatment**

Emad Khaksar, Mahdi Shafiee Afarani, Abdolreza Samimi

JOURNAL OF MATERIALS ENGINEERING AND PERFORMANCE Volume: (23) 92 - 100

**61. The effects of RF-sputtered TiO<sub>2</sub> top layer on pore structure of composite ceramic membranes**

Abdolreza Samimi

SURFACE and COATINGS TECHNOLOGY Volume: () 1256 - 1258

**62. The effect of RF-supattered TiO<sub>2</sub> top layer on pore structure of composite ceramic membrane**

, , Abdolreza Samimi

SURFACE and COATINGS TECHNOLOGY Volume: () 1256 - 1258

**63. Effect of support and promoter on the catalytic performance and structural properties of the Fe-Co-Mn catalysts for Fischer-Tropsch synthesis**

, Ali Akbar Mirzaei, , Abdolreza Samimi,

JOURNAL OF INDUSTRIAL AND ENGINEERING CHEMISTRY Volume: () 1313 - 1323

**64. In Situ Solvothermal crystallization of TiO<sub>2</sub> Nanostructure on Alumina Granules for photocatalytic wastewater treatment**

Emad Khaksar, Mahdi Shafiee Afarani, Abdolreza Samimi

JOURNAL OF MATERIALS ENGINEERING AND PERFORMANCE Volume: (23) 92 - 100

**65. Solar absorptivity of nano-porous anodic alumina(NPAA): effects of structural features**

, Abdolreza Samimi, Amin Behzadmehr

JOURNAL OF POROUS MATERIALS Volume: () 331 - 336

**66. A Review of Fischer-Tropsch Synthesis on the Cobalt Based Catalysts**

, Ali Akbar Mirzaei, , Abdolreza Samimi

Physical Chemistry Research Volume: (2) 179 - 201

#### 67. A Review of Fischer-Tropsch Synthesis on the Cobalt Based Catalysts

, Ali Akbar Mirzaei, , Abdolreza Samimi

Physical Chemistry Research Volume: (2) 201 - 179

### 2013

#### 68. Kinetic study of CO hydrogenation on the Mgo supported Fe-Co-Mn-sol-gel catalyst

Ali Akbar Mirzaei, , , Hossein Atashi, Abdolreza Samimi

JOURNAL OF INDUSTRIAL AND ENGINEERING CHEMISTRY Volume: (19) 1144 - 1152

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

, Masoud Shayesteh, Mahdi Shafiee Afarani, Abdolreza Samimi

JOURNAL OF CERAMIC PROCESSING RESEARCH Volume: (14) 1 - 4

#### 70. Mathematical Modeling of Supercritical Fluid Extraction of Oil from Canola and Sesame Seeds

, , Mohammad Khorram, Abdolreza Samimi

BRAZILIAN JOURNAL OF CHEMICAL ENGINEERING Volume: (30) 159 - 166

#### 71. Synthesis of alumina granules by high shear mixer granulator Processing and sintering

Mahdi Shafiee Afarani, Abdolreza Samimi,

POWDER TECHNOLOGY Volume: (237) 32 - 40

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

Abdolreza Samimi, Amin Behzadmehr

Transport Phenomena in Nano and Micro Scales Volume: (1) 110 - 116

#### 73. Preparation of Y-alumina and periorientation of affecting factors on the crystallite size using Taguchi method

Masoud Shayesteh, Mahdi Shafiee Afarani, Abdolreza Samimi, Mohammad Khorram

Transport Phenomena in Nano and Micro Scales Volume: (1) 45 - 52

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

, Masoud Shayesteh, Mahdi Shafiee Afarani, Abdolreza Samimi

JOURNAL OF CERAMIC PROCESSING RESEARCH Volume: () 472 - 475

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

Ali Akbar Mirzaei, , , Hossein Atashi, Abdolreza Samimi

JOURNAL OF INDUSTRIAL AND ENGINEERING CHEMISTRY Volume: () 1144 - 1152

**76. Preparation of gama-Al<sub>2</sub>O<sub>3</sub> and prioritization of affecting factors on the crystallite size using Taguchi method**

, Mahdi Shafiee Afarani, Abdolreza Samimi,

Transport Phenomena in Nano and Micro Scales Volume: () 45 - 52

**77. Kinetic study of CO hydrogenation on the MgO supported Fe–Co–Mn sol–gel catalyst**

Ali Akbar Mirzaei, , , Hossein Atashi, Abdolreza Samimi

JOURNAL OF INDUSTRIAL AND ENGINEERING CHEMISTRY Volume: (19) 1152 - 1144

## 2012

**78. Steady state electric power generation in up - flow microbial fuel cell using the estimates time span method for bacteria growth domestic wastewater**

, Abdolreza Samimi

BIOMASS and BIOENERGY Volume: () 65 - 76

**79. Bovine serum albumin loaded chitosan particles and evaluation of effective parameters on fabrication characteristics and in vitro release in the presence of non covalent interactions**

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INTERNATIONAL JOURNAL OF POLYMERIC MATERIALS Volume: () 1079 - 1090

**80. بهسازی و تعیین درجه استیل زدایی کیتوزان با روش تیتراسیون پتانسیل سنجی و طیف نمایی زیر قرمز**

, Abdolreza Samimi

Volume: (31) 13 - 20

**81. بهسازی و تعیین درجه استیل زدایی کیتوزان با روش تیتراسیون ژتانسیل سنجی و طیف نمایی زیر قرمز**

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Volume: () 13 - 20

**82. Study pulsating electrospray of non-Newtonian and thixotropic sodium alginate solution**

Adel Tabiei, Abdolreza Samimi, Mohammad Khorram,

JOURNAL OF ELECTROSTATICS Volume: (70) 77 - 82

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

Abdolreza Samimi

Iranian Polymer Journal Volume: (21) 99 - 107

## 2011

84. مروری بر هیدرودینامیک تولید قطرات مایع به روش پاشش الکتریکی.

Abdolreza Samimi

Volume: (10) 14 - 23

85. Numerical Investigation of Rectangular Dielectric Resonator Antenna Array Fed by Dielectric Image Line

, Mohammad Khorram, , Abdolreza Samimi,

International Journal of Microwave and Optical Technology Volume: (6) 57 - 63

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Mozhgan Zakeri, Abdolreza Samimi, Mohammad Khorram, Hossein Atashi

Volume: () -

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Volume: () 24 - 30

88. Unsteady state simulation of bubbling fluidized bed by CFD

Seyyed Hossein Hosseini, Rahbar Rahimi, Mortaza Zivdar, Abdolreza Samimi

Volume: (21) 13 - 30

89. Electrospray modeling of highly viscous and non-newtonian liquids

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JOURNAL OF APPLIED POLYMER SCIENCE Volume: (118) 1288 - 1296

90. Effect of forming on selectivity and attrition of co-precipitated Co Mn Fischer Tropsch catalyst

Abdolreza Samimi, Mohammad Khorram, Hossein Atashi

POWDER TECHNOLOGY Volume: (200) 164 - 170

91. Combined Method of Complex-Coacervation and Electrospray for Encapsulate Preparation

Mohammad Khorram, Abdolreza Samimi

JOURNAL OF APPLIED POLYMER SCIENCE Volume: (177) 322 - 328

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

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KOREAN JOURNAL OF CHEMICAL ENGINEERING Volume: (26) 1405 - 1413

### 94. CFD Simulation of Solid Hold Up in Gas Solid Fluidized Bed at High Gas Velocities

, Mortaza Zivdar, Rahbar Rahimi, Abdolreza Samimi

Chemical Product and Process Modeling Volume: (4) -

### 95. Study Parameters Affecting Size Distribution of Beads Produced from Electro-Spray of High Viscous Liquids

Abdolreza Samimi, Mohammad Khorram, ,

Iranian Journal of Chemical Engineering Volume: (6) 88 - 989

### 96. comment on dynamic and control of fluidized catalytic crackers.1.modeling of the current generation FCC S

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INDUSTRIAL and ENGINEERING CHEMISTRY RESEARCH Volume: () -

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### 97. Electro-spray of high viscous liquids for producing mono-sized spherical alginate beads

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Particuology Volume: (6) 271 - 275

## 2005

### 98. Single and Bulk Compressions of Soft Granules Experimental study and DEM Evaluation

Abdolreza Samimi

CHEMICAL ENGINEERING SCIENCE Volume: () -

## 2004

### 99. Analysis Impact Damage of Agglomerates Effect of Impact Angle

Abdolreza Samimi

POWDER TECHNOLOGY Volume: () -

## 2003

## 100. Effect of Structural Characteristics on Impact Breakage of Agglomerates

Abdolreza Samimi

POWDER TECHNOLOGY Volume: () -

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## Conferences Papers

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2021

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### 1. Microalgae-based wastewater dewatering by forward osmosis

3rd international Congress on Water Desalination: Application of Advanced Technologies in Unconventional Water treatment for Zones under Water Stress, 14-16 Sep 2021

Salma Karamad yazdanabad, Abdolreza Samimi, Soheila Shokrollahzadeh, Davod Mohebbi Kalhori, Nasrin Moazami, Tania Mazzuka Sobczuk, Maria Jose Ibanez Gonzalez, Emilio Molina Grima

### 2. FABRICATION AND CHARACTERIZATION OF THE THIN FILM NANOFIBROUS MEMBRANE WITH ACTIVE LAYER INCORPORATING MULTIWALLED CARBON NANOTUBES FOR DESALINATION

3rd international Congress on Water Desalination: Application of Advanced Technologies in Unconventional Water treatment for Zones under Water Stress,

, Abdolreza Samimi, Davod Mohebbi Kalhori

### 3. Urban Wastewater Treatment by Freshwater Microalgae Chlorella Vulgaris

3rd international Congress on Water Desalination: Application of Advanced Technologies in Unconventional Water treatment for Zones under Water Stress,

Hidis Mostafaei, Abdolreza Samimi, Soheila Shokrollahzadeh, Salma Karamad yazdanabad, Ali Sheikhejehaz

### 4. Removal of triethyl phosphate from aqueous solution by forward osmosis

3rd international Congress on Water Desalination: Application of Advanced Technologies in Unconventional Water treatment for Zones under Water Stress,

### 5. USE OF SALINE WATER FOR INCREASE THE TURBINE OUTPUT POWER BY CONNECTION OF DIRECT CONTACT MEMBRANE DISTILLATION (DCMD) UNIT TO A STEAM INJECTED GAS TURBINE (SIGT)

3rd international Congress on Water Desalination

, Jafar Sadeghi, Farhad Shahraki, Abdolreza Samimi

### 6. Wastewater treatment using microalgae

The 5th Iranian energy community with the approach of energy, water, and environment

2018

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### 7. Thermally stable UIO-66 nano-adsorbent with high gasoline vapor recovery

7th international congress on nanoscience and nanotechnology

2017

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### 8. Domestic Wastewater treatment in microbial fuel cell by using commerical unglazed wall Ceramic as proton exchange membrane

1st International Joint Conferenceon on New Trend IN BIOTECHNOLOGY

### 9. Preparation of BSA loaded-chitosan microparticles using reverse micelle method

Mohammad Khorram, Abdolreza Samimi, , ,

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10. Preparation and characterization of Chitosan nanoparticles using reverse micelles
  11. Effect of type and concentration of binder on Selectivity and Attrition of formed Co-Mn Fischer-Tropsch Catalysts

Abdolreza Samimi, Mohammad Khorram, Hossein Atashi,

12. Extraction of canola oil with supercritical carbon dioxide Experimental and Modeling

Mohammad Khorram, , Abdolreza Samimi,

13. Nano Halogen in Stabilization of Colloidal Microspheres

2008

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14. Effect of Time on selective elimination of antimony from electrolyte of Sarcheshmeh copper refinery by Duolite C467 ion exchange resins

2007

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16. hydrodynamics comparison of bubbling fluidized bed contain geldart a and b by cfd

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17. Preparing of Calcium Alginate Beads from Viscid Sodium Alginate by Electrospray Method

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2005

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18. Combined Process of Electro-Spray and Freeze Drying for Production of Nanoparticale assemblies With View of Redispersio

10th Iranian Conference of Chemical Engineering

Abdolreza Samimi

19. Tribo-Electrification of Pharmaceutical Powders

Symposiom of Particle Technology

Abdolreza Samimi

20. Measurement of Cherge Transfer Due to Single Particle Impact

Particulate System Analysis Conference Stratford-Upon-Avon

Abdolreza Samimi

21. Characterisation of Dispersion Behaviour of Powder in Liquids

Particulate System Analysis Conference Stratford-Upon-Avon

Abdolreza Samimi

2004

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22. Measurement of Tribo-Charging by Particle Impact

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9th international Conference Multiphase Flow in Industrial Plants

Abdolreza Samimi

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## Executive activities

### مشاور پژوهشی رئیس دانشگاه

from 1397/11/13 - now

### سردیر مجله علمی پژوهشی

from 1397/11/13 - now

### دبیر هیات ممیزه دانشگاه

from 1397/06/24 - to 1397/11/01

### معاون آموزشی و تحصیلات تکمیلی دانشگاه

from 1396/04/25 - to 1397/11/09

### عضو هیات تحریریه مجله علمی پژوهشی

from 1395/07/01 - now

### عضو هیات تحریریه مجله

from 1393/07/01 - to 1397/06/01

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## Research Project

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### 2015

#### 1. Experimental and CFD simulation studies of transport phenomena in the urea fluidized bed granulator

Abdolreza Samimi - 2015

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### 2008

#### 2. Synthesis of Alomina-Titania nano-composite membrane and study its performance in water and wastewater

Abdolreza Samimi, Mahdi Shafiee Afarani, Amin Behzadmehr, Masoud Shayesteh - 2008