



Petroleum University of
Technology

In the Name of God

IRANIAN JOURNAL OF OIL & GAS SCIENCE AND TECHNOLOGY (IJOGST)

Vol. 5, No. 1, Winter 2016

ISSN: 2345-2412

Director in Charge

Abdonabi Hashemi
Petroleum University of Technology

Editor in Chief

Riyaz Kharrat
Petroleum University of Technology

Executive Manager

Mohammad Reza Khosravi Nikou
Petroleum University of Technology

Executive Assistant

Ensieh Ebrahimpour
Petroleum University of Technology

Language Editor

Mohammad Najafi
University of Tehran

Editorial Board

Ehsani, Mohammad Reza, Professor at Isfahan University of Technology
Masihi, Mohsen, Associate Professor at Sharif University of Technology
Najibi, Seyed Hesam, Associate Professor at Petroleum University of Technology
Riahi, Mohammad Ali, Associate Professor at Tehran University
Salahshoor, Karim, Professor at Petroleum University of Technology
Shadizadeh, Seyed Reza, Professor at Petroleum University of Technology
Yassaghi, Ali, Associate Professor at Tarbiat Modares University

Iranian Journal of Oil & Gas Science and Technology (IJOGST) is published quarterly by Petroleum University of Technology (PUT). Manuscripts should be submitted online to the journal website at <http://ijogst.put.ac.ir>.

All correspondence must be directed to **Petroleum University of Technology**.

Address: Petroshimi Sq., Bereim, Abadan, Khuzestan, Iran, P.O. Box: 63146-61118

Tel: +98 61 5326 8957; **Fax:** +98 61 5326 8957; **Email:** ijogst@put.ac.ir; **Website:** <http://ijogst.put.ac.ir>

TABLE OF CONTENTS

| | |
|--|--------------|
| Application of Modified LECA in Removing Nickel from Wastewater A. Rastegar, B. Anvaripour, and N. Jaafarzadeh | 01-12 |
| Simulation and Assessment of Surfactant Injection in Fractured Reservoirs: A Sensitivity Analysis of some Uncertain Parameters M. H. Badizad, A. R. Zanganeh, and A. H. Saeedi Dehaghani | 13-26 |
| A Novel Integrated Approach to Oil Production Optimization and Limiting the Water Cut Using Intelligent Well Concept: Using Case Studies T. Behrouz, M. R. Rasaei, and R. Masoudi | 27-41 |
| Modeling and Simulation of Claus Unit Reaction Furnace M. Pahlavan and M. A. Fanaei | 42-52 |
| Design and Practical Implementation of a New Markov Model Predictive Controller for Variable Communication Packet Loss in Network Control Systems K. Salahshoor, B. Roshanipour, and I. Karimi | 53-64 |
| Effects of Surface Treatment on Corrosion Resistance of 304L and 316L Stainless Steel Implants in Hank's Solution S. Ghanavati, M. R. Shishesaz, M. Farzam, and I. Danaee | 65-72 |
| Persian Abstracts | 73-78 |

Name of Reviewers

| | | |
|------------------------------|-------------------------------|----------------------------------|
| Alimoradi, Abbas | Hatefi, Mohammad Ali | Riahi, Mohammad Ali |
| Allahkaram, Saeed Reza | Jamshidi, Saeed | Roayaei, Emad |
| Aghabozorg, Hamidreza | Kadkhodaei, Ali | Roshandel Kahoo, Amin |
| Danaee, Iman | Kamali, Mohammad Reza | Sadeghy, Keivan |
| Dashti, Nader | Kadkhodaei, Ali | Shadizadeh, Seyed Reza |
| Dehghanian, Changiz | Khaloo, Shokooh Sadat | Shahrabadi, Abbas |
| Ehsani, Mohammad Reza | Kharrat, Riyaz | Shariati, Ahmad |
| Farhadi, Alireza | Khosravi Nikou, Mohammad Reza | Shariat Panahi, Homeira |
| Farzam, Mansour | Masihi, Mohsen | Shishesaz, Mohammad Reza |
| Fattahi, Moslem | Najibi, Seyed Hesam | Sodagar, Sina |
| Ghaisari, Jafar | Nikmanesh, Soudabeh | Tabatabaei Nezhad, Seyed Alireza |
| Ghazanfari, Mohammad Hossein | Omidvar, Hamid | Vosoughi, Manouchehr |
| Hatefi, Mohammad Ali | Rashed, Gholamreza | Yassaghi, Ali |
| Hamoule, Toubia | Rahimi, Rahbar | Zargar, Ghasem |
| Hashemi, Abdolnabi | Rasaei, Mohammadreza | |
| Hashemi Shahraki, Bahram | Rashidi, Alimorad | |