



Process Engineering in the Valorisation of Natural Substances

Algerian Journal of Engineering Research

Editorial Board

Editor-in-Chief

Abdeslam-Hassen Meniai

University Constantine 3, Constantine, Algeria

Editors

Mossaab Bencheikh Lehocine

University Constantine 3, Constantine, Algeria

Jean-Pierre Grolier

University Blaise Pascal, Clermont- Ferrand, France

Abdeltif Amrane

University of Rennes (France)

Coordinator Editors

Outili Nawel

University Constantine 3, Constantine, Algeria

Arris Sihem

University Constantine 3, Constantine, Algeria

Editorial Board

Rafiqul Gani

Technical University of Denmark

Dominique Richon

School of Chemical Technology Aalto University, FI-00076, Aalto, Finland

Marek Rogalski

University of Lorraine, Metz, France

Sümer Şahin

Near East University, Turkish Republic of Northern Cyprus

Hans-Jörg Bart

University of Kaiserslautern, Kaiserslautern, Germany

Karim Allaf

University of Rochelle, Rochelle, France

Jean Louis Delanoiselle
University of Bretagne sud (France)

Thomas Lendormi
University of Bretagne sud (France)

Mustapha Chikhi
University Constantine 3, Constantine, Algeria

Wahida Louaer
University Constantine 3, Constantine, Algeria

Rehab Boushaba
University Constantine 3, Constantine, Algeria

Ahmed Zermane
University Oum El Bouaghi (Algeria)

Fatiha Meghezzi
University Constantine 3, Constantine, Algeria

Papers	Impact of the composition of the essential oils of Citrus sinensis (orange) and Citrus limonum (lemon) on the microbiological.	1
	<i>Saadoune Zineb, Boutoumi Yacine</i>	
	A Formulation, characterization and efficiency evaluation of a hydrogel formulated with an Algerian thermal water	9
	<i>Romaissa Mokdad, Abdelkader Hadj Sadok, Ali Ouabed</i>	
	Glycerol Gasification In Supercritical Water: Effects Of Operating Parameters.	13
	<i>Houcinat Ibtissem, Outili Nawel, Weiss-Hortala Elsa, Meniai Abdeslam Hassen</i>	
	Comparative Evaluation of Super Disintegrants and Binder with Formulation Development of Orodispersible Tablets	18
	<i>Haciane Yamina, Benaziz Ouarda, Laoufi Naima</i>	
	Optimization of The Coagulation Process Used in a Water Treatment Plant Using The Response Surface Methodology (RSM)	27
	<i>Benalia Abderezak; Derbal Kerroum</i>	
	Test of Amberlite Irn150 Resin in Cr(Vi) Recovery	31
	<i>Nourhane Amani Bounab; Chahrased Boukhalfa-Djebar</i>	
	Biosorption Characteristics of Zinc (II) from Aqueous Solution by Luffa Cylindrica	36
	<i>Imane Nouacer, Mokhtar Benalia, Ghania Hanini, Mebrouk Djedid</i>	
	Valorization of Plants for Water Depollution	45
	<i>Benkartoussa Miada, Bencheikh Lehocine Mossaab</i>	
	Experimental Study of Chlorophenol Elimination by Adsorption on Chemically Activated Wood Sawdust	49
	<i>Zermane Samah, Larous Soumaya, Meniai Abdeslam-Hassen</i>	
	Design optimization of an auto-thermal ammonia synthesis reactor using <i>genetic algorithm</i> .	54
	<i>Abdelkrim Merzougui Adrián Bonilla-Petriciolet; Timedjeghdine-Mebarka.</i>	
	Calculation of the Parameters of a Regulator PID by the PSO Optimization Method for a Level Tank Control and Acquisition of the Data by an Ultrasonic Sensor through an Interface Board Arduino	57
	<i>Fetimi Abdelhalim, Bahita Mohamed , Hamachi Mourad</i>	