



/ Medicinal Plants and Drugs Research Institute

Masoud
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وب سایت:

پروفايل علم سنجی:

Education

- Ph.D: Iran university of Science and Technology,

Research Interests

■ .

Journal Papers

- Response surface methodology optimization extraction of aloins from Aloe vera leaf skin by ultrasonic horn sonicator and cytotoxicity evaluation
Sarah Behaiyn, Samad Nejad Ebrahimi, Masoud Rahimi, Hossein Behboudi
INDUSTRIAL CROPS AND PRODUCTS, Vol.202, 2023
- CFD and experimental microfluidic study of the interaction between a natural compound nanoemulsion and E. coli bacterium considering reaction-diffusion-convection model
Masoud Rahimi, Mohammad Hossein Javanmard, Zinab Moradialvand, Mostafa Keshavarz Moraveji, Hasan Rafati
CHEMICAL ENGINEERING SCIENCE, Vol.282, 2023
- Optimization of aqueous extraction of henna leaves (Lawsonia inermis L.) and evaluation of biological activity by HPLC-based profiling and molecular docking techniques
Nazanin Kaveh poor, Mohammad Bayati, Masoud Rahimi, Atousa Aliahmadi, Samad Nejad Ebrahimi
CHEMICAL ENGINEERING RESEARCH and DESIGN, Vol.195, pp. 332-343, 2023
- Chitosan decorated essential oil nanoemulsions for enhanced antibacterial activity using a microfluidic device and response surface methodology
Zinab Moradialvand, Masoud Rahimi, Hasan Rafati
INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES, Vol.239, 2023
- Enrichment of phenolic compounds from grape (Vitis vinifera L.) pomace extract using a macroporous resin and response surface methodology
Sarvenaz Heravi, Masoud Rahimi, Mahshad Shahriari, Samad Nejad Ebrahimi
CHEMICAL ENGINEERING RESEARCH and DESIGN, Vol.183, pp. 382-397, 2022
- Interaction of a natural compound nanoemulsion with Gram negative and Gram positive bacterial membrane; a mechanism based study using a microfluidic chip and DESI technique
Zinab Moradialvand, Masoud Rahimi, Hasan Rafati
INTERNATIONAL JOURNAL OF PHARMACEUTICS, Vol.626, 2022
- Continuous hydrodistillation-ultrasonication flow batch-mode operation system to enhance essential oil extraction from Satureja khuzistanica and evaluation of in vitro anti-inflammatory activity

■ **Two Dimensional Anion Exchange-Size Exclusion Chromatography Combined with Mathematical Modeling for Downstream Processing of Foot and Mouth Disease Vaccine**

Seied Mohamad Javad Hosseinizadeh, Mohsen Bagheri, , Masoud Rahimi, Seyed Mahmoud Azimi, Morteza Kamalzade, Ali Es-haghi, Alireza Ghassempour
JOURNAL OF CHROMATOGRAPHY A, Vol.1643, 2021

■ **A microfluidic chip for visual investigation of the interaction of nanoemulsion of Satureja Khuzistanica essential oil and a model gram-negative bacteria**

Zinab Moradialvand, Masoud Rahimi, Hasan Rafati
INTERNATIONAL JOURNAL OF PHARMACEUTICS, Vol.607, 2021

■ **Carbonaceous supports decorated with Pt₂/TiO₂ nanoparticles using electrostatic self-assembly method as a highly visible-light active photocatalyst for CO₂ photoreduction**

Afsanehsadat Larimi, Masoud Rahimi, Farhad Khorasheh
RENEWABLE ENERGY, Vol.145, pp. 1862-1869, 2020

■ **A novel multi-probe continuous flow ultrasound assisted oxidative desulfurization reactor; experimental investigation and simulation**

Masoud Rahimi, Shahrokh Shahhosseini, Mohammad Amin Sobati, Salman Movahedirad, Behrang Khodaei, Hossein Hassanzadeh
ULTRASONICS SONOCHEMISTRY, Vol.56, pp. 264-273, 2019

■ **Hydrodynamic and mass transfer investigation of oxidative desulfurization of a model fuel using an ultrasound horn reactor**

Masoud Rahimi, Shahrokh Shahhosseini, Salman Movahedirad
ULTRASONICS SONOCHEMISTRY, Vol.52, pp. 77-87, 2019

■ **Effect of operating pressure on the performance of ultrasound-assisted oxidative desulfurization (UAOD) using a horn type sonicator: Experimental investigation and CFD simulation**

Behrang Khodaei, Masoud Rahimi, Mohammad Amin Sobati, Shahrokh Shahhosseini, Mohammad Reza Jalali
CHEMICAL ENGINEERING AND PROCESSING, Vol.132, pp. 75-88, 2018

■ **CFD study of the flow pattern in an ultrasonic horn reactor: Introducing a realistic vibrating boundary condition**

Masoud Rahimi, Salman Movahedirad, Shahrokh Shahhosseini
ULTRASONICS SONOCHEMISTRY, Vol.35, pp. 359-374, 2017

■ **Sulfurous Analysis of Bioelectricity Generation from Sulfate-reducing Bacteria (SRB) in a Microbial Fuel Cell**

Masoud Rahimi, Seyed Mojtaba Sadrameli, Hossein Mohammadpoor, H. Kazerouni, M.D. Ghaffari
Hydrogen, Fuel Cell and Energy Storage, Vol.4, pp. 307-321, 2017

■ **Continuous-flow ultrasound assisted oxidative desulfurization (UAOD) process: An efficient diesel treatment by injection of the aqueous phase**

Masoud Rahimi, Shahrokh Shahhosseini, Salman Movahedirad
ULTRASONICS SONOCHEMISTRY, Vol.39, pp. 611-622, 2017

Conference Papers

■ **Efficient batch adsorption/desorption characterization for the enrichment of anthocyanins of pomegranate juice using**

Mahshad Shahriari, Masoud Rahimi, Samad Nejad Ebrahimi
5th international symposium on phytochemicals in medicine and food 5-ispmf, pp.58-58

■ **Enrichment polyphenol Vitis vinifera leaves extract using with macroporous resin LXA-10; Isotherm and kinetic studies.**

Nadia Sobhani, Masoud Rahimi, Hamid Ranjbar, Samad Nejad Ebrahimi
5th international symposium on phytochemicals in medicine and food 5-ispmf, pp.69-69

■ **Optimization extraction of Aloiens from Aloe vera s in using Central composite design-Response surface**

methodology

Sara Behaiyn, Masoud Rahimi, Mohammad Tajiki, Samad Nejad Ebrahimi
5th international symposium on phytochemicals in medicine and food 5-ispmf, pp.60-60

Enrichment of Total Steviol Glycosides in *S. rebaudiana* Extract Using Polymeric Adsorbents ■

سبا زینلی، حسن رضادوست چهارده، مسعود رحیمی، مهدی مریدی فریمانی

صفحات: ۶۳-۶۳، ۹th National Congress on Medicinal Plants

The Use of Macroporous Synthetic Adsorbents in the Extraction and Purification of Anthocyanins from Iranian Saffron Petal (*Crocus sativus* L.) ■

مریم سجودی مقدم، مهدی مریدی فریمانی، مسعود رحیمی، حسن رضادوست چهارده

نسخه-، صفحات: ۱۷۹-۱۷۹، ۹th National Congress on Medicinal Plants

Awards & Honors

■ اولین جشنواره ملی پژوهش های مسئله محور و کاربردی

۱۳۹۹

Patents & Innovations

■ راکتور جریانی حذف ترکیبات سولفوری گازوئیل با کمک امواج اولتراسونیک

محمدامین ثباتی، شاهرخ شاه حسینی، مسعود رحیمی، بهرنگ خدایی

۲۰۱۸

■ متشکل از اتانول به همراه افزودنی های پاک RC موتورهای

مسعود رحیمی

۲۰۰۸