

Chemical Engineering Department

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Chemical Engineering

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EDUCATION:

B.SC.: Chem..Eng ., Isfahan , Isfahan University of Technology , 1364
M.SC.; Chem. Eng ., Tehran Tarbiat Modarres University ,1371

B.SC. Thesis Title : production of Ferric Chloride as a Coagulant Agent
M.SC. Thesis Title : Simulation of Nitric Acid production unit

EMPLOYMENT :

- Kashan University , Instructor , Department of Chamistry 1364-1378
- Amirkabir University of Technology , Instructor , Chemical Eng , 1378

SUBJECT OF RESEARCH:

Advanced Oxidation Processes (AOP's)
Water and Wastewater Treatment Technologies
Food Science and Technology

TEACHING EXPERIENCE

- **In Kashan University :**
 - . Treatment of Water & Wastewater
 - . Principles of Metal corrosion
 - . Principles of Chemical Industries
 - . Physical Chemistry Laboratory
 - . Water & Waste water Treatment Laboratory
 - . Unit Operation Laboratory

- **In Amirkabir University :**
 - . Food Quality Control Laboratory for B.SC.students
 - . Biotechnology Processing Laboratory for M . SC. Students
 - . Food Analysis Laboratory for M . SC. Students
 - . Industrial Wastewater Treatment for M . SC. Students
 - . Water and Wastewater Treatment for B . SC. Students
 - . Fluid Mechanics Laboratory for B . SC. Students
 - . Introduction to Chemical Engineering for B . SC. Students

RESEARCH PAPERS:

Use of Acid Cracking and Fenton Processes in treating olive mill wastewater, M. Aliabadi, S. Fazel, F. Vahabzadeh, Journal of water and wastewater, vol. pp:

Role of physico-chemical treatments in advanced oxidation process and reduction of pollutant load of olive oil mill wastewater, M. Aliabadi, S. Fazel, F. Vahabzadeh, 10th National Congress of Chemical Engineering, Zahedan, 15-17 November 2005.

Determination of physico-chemical properties of olive mill wastewater in centrifugal extraction process, M. Aliabadi, S. Fazel, F. Vahabzadeh, 16th National Congress of Food Engineering, gorgan 11-13 April 2006.

Statistical evaluation of OSA corn starch synthesis and physicochemical properties, Abdollahzadeh... 9th International Hydrocolloids Conference 2008

Statistical evaluation of OSA corn starch synthesis and physicochemical properties, Abdollahzadeh... 18th International Congress of Chemical and Process Engineering 2008

Use of soy protein gum arabic composite as the encapsulant of liquid orange oil emulsion particles, Ramin ... The 7th International Chemical Engineering Congress & Exhibition (IChEC 2008)

Study and compression of ferric chloride and acid cracking pretreatments in yield increasing of olive mill wastewater photocatalysis , Rezaei ... Journal of Environmental Sciences and Technology Vol,11,No.1,2009

preparation of colloidal silver nanoparticles with antibacterial activity by a simple chemical reduction method ,Dehnavi ... The 7th International Chemical Engineering Congress & Exhibition (IChEC 2011)

Graduate Projects:

Use of physico-chemical and advanced Oxidation Process in Olive Mill Wastewater Treatment.

Use of advanced oxidation process in form of photocatalysis in the degradation of industrial pollutant with reference to food engineering

Use of Spray Dryer in Microencapsulation of orange oil by modified starch

Microencapsulation probiotic bacteria with use of biopolymers

Study of photocatalytic degradation of Phenolic compound using immobilized TiO₂

ثبت اختراع

۱- ساخت پنیر با افزودن اسید اولئیک بالا با استفاده از آنزیم استخراجی از گیاه گلرنگ، شماره ثبت اختراع: ۳۴۴۲۸ تاریخ ۱۳۸۵/۱/۱۵

۲- ساخت فیلمهای پلیمری بر پایه نانو نقره به روش لایه نشانی به کمک تخلیه الکتریکی کرونا شماره ثبت اختراع ۷۵۰۳۳ تاریخ ۹۱/۲/۲۴

پژوهشی

طرح

۱- شماره ۱۰۰۴۰۰۹۲۵ تولید نشاسته اصلاح شده لیپوفیلک و کاربرد آن در صنایع غذایی پایان ۸۷/۶/۱۲

۲- شماره ۱۰۰۵۰۰۷۰۲ تولید فیلم های نانو
کامپوزیته پلیمر / نانونقره با استفاده از
سیستم لایه نشانی در مقیاس نیمه صنعتی برای
استفاده در صنعت بسته بندی مواد غذایی