

# 7<sup>th</sup> Zeolite Conference of Iranian Chemical Society

30 & 31 August 2022

Chemistry & Chemical Engineering Research Center of Iran



## Conference Schedule Day 1 (30 August 2022)

| Time                         | Presenter   | Title   |
|------------------------------|---|---|
| 7:00-7:45                    | Welcome to the honorable participants   |   |
| 7:45-9:00                    | Recitation of the Holy Quran/National Anthem<br>The Speech of President of CCERC<br>The Speech of Secretary of Iranian Chemical Society<br>The Speech of Scientific Secretary | Opening Ceremony  |
|                              | Prof. Mojgan Zendeheel<br>Prof. Masoud Mirzaei Shahrabi   | Management Committee  |
| 9:00-9:30                    | Plenary Lecture<br>Prof. Hossein Kazemian<br>(University of Northern British Columbia)  | Zeolites and MOFs and their environmental applications as catalysts and adsorbents  |
| 9:30-10:00                   | Invited Lecture<br>Dr. Majid Pour Moghaddam<br>(Isfahan University of Technology)   | An analytical view on worldwide statistics of 74 types of Iran's minerals focusing on zeolite as a strategic material (deposit storage quantity, variety, production, and branding) |
| 10:00-11:00                  | Poster session 1 & Break  |   |
|                              | Associate Prof. Bahram Ghanbari<br>Prof. Shabnam Sohrabnezhad   | Management Committee  |
| 11:00-12:00<br>Oral Lectures | Marjan Ghazimoradi<br>PhD Student<br>(CCERC & Tabriz University)  | Effect of porous silica multiple shells in drug delivery systems for cancer therapy   |
|                              | Masoumeh Ghandi<br>MSc Student<br>(Iran University of Science and Technology)   | Computational and FT-IR spectroscopic studies on hydrogen adsorption on the Be-FER and Mg-FER zeolites  |
| 12:00-12:30                  | Keynote Lecture<br>Prof. Massumeh khatamian<br>(University Of Tabriz)   | ZSM-5 type cobaltosilicate zeolites and their composites, synthesis, characterization and applications  |
| 12:30-14:00                  | Prayer and Lunch Break  |   |
|                              | DR. Fereydoon Yaripour<br>Assistant Prof. Mozaffar Shakeri  | Management Committee  |
| 14:00-14:30                  | Keynote Lecture<br>Prof. Cavus Falamaki<br>(Amirkabir University of Technology)   | Pluripotential of Iranian clinoptilolite zeolite for industrial applications  |
| 14:30-15:00                  | Keynote Lecture<br>Assoc. Prof. Abtin Ebadi<br>(Arak University)  | The role of advanced porous filler materials in the new generation of gas separating membranes  |
|                              | Prof. Rahmatollah Rahimi<br>Prof. Sadegh Rostamnia  | Management Committee  |
| 15:00-16:00<br>Oral Lectures | Saeed Vahdat<br>MSc<br>(Faculty of Engineering, Shahed University)  | Investigating the effect of size and arrangement of zeolite NaY adsorbent masses on preconcentration of NO <sub>2</sub> gas   |
|                              | Fateme Ganji<br>PhD Student<br>(Persian Gulf University)  | Synthesis of 4A-Zeolite by plant fibers as source of silica and its application for removal of heavy metals from wastewater   |
|                              | Mohammad Reza Vaseghi<br>MSc Student<br>(Shahid Beheshti University)  | Development of glass composite wasteform for immobilization of spent Cs-impregnated Clinoptilolite  |
| 16:00-17:00                  | Poster session 2 & Break  |   |
|                              | Prof. Cavus Falamaki<br>Associate Prof. Aliakbar Tarlani  | Management Committee  |
| 17:00-17:30                  | Keynote Lecture<br>Asst. Prof. Mozaffar Shakeri<br>(CCERC)  | Supported Embryonic Zeolites: The Emergence of New Catalysts for Transformation of the Bulky Substrates   |
| 17:30-18:00                  | Keynote Lecture<br>Assoc. Prof. Bahram Ghanbari<br>(Sharif University of Technology)  | Zeolite transformation (MFI-to-MOR) parallel to OSDA chemical change  |



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## Conference Schedule Day 2 (31 August 2022)

| Time                        | Presenter   | Title   |
|-----------------------------|---|---|
|                             | Prof. Majid Moghadam<br>Asst. Prof. Mohammad Yaser Masoomi  | Management Committee  |
| 8:30-9:00                   | Plenary Lecture<br>Prof. Mojgan Zendehtel<br>(Arak university)  | Zeolite, From discovery to New application  |
| 9:00-9:30                   | Keynote Lecture<br>Prof. Sadegh Rostamnia<br>(Iran University of Science and Technology)  | Metal-Organic Frameworks (MOFs) and Covalent Organic Frameworks (COFs) Porous Nanoreactors: 14 Years with ONG   |
| 9:30-10:10<br>Oral Lectures | Mahta Badienezhad<br>PhD Student<br>(University of Guilan/Behdash Chemical Company)   | Monitoring the relationship between specific surface area and total pore volume with silica amount and Si/Al ratio in fluid catalytic cracking (FCC) through XRF, XRD and N <sub>2</sub> -porosimetry analysis. |
|                             | Mahdi Heidari-Golafzani<br>PhD Student<br>(Iran University of Science and Technology)   | Enhanced adsorption of heavy metals and dyes using CuO/zeolite nanocomposite  |
| 10:10-11:00                 | Poster session 3 & Break  |   |
|                             | Associate Prof. Maryam Afsharpour<br>Prof. Massumeh khatamian   | Management Committee  |
| 11:00-11:30                 | Invited Lecture<br>Asst. Prof. Mohammad Yaser Masoomi<br>( Arak University)   | Introducing quasi metal-organic frameworks with an overview on their applications   |
| 11:30-12:00                 | Invited Lecture<br>Dr. Somayeh Taghavi<br>(Postdoctoral Fellow, DMSN, Ca' Foscari University of Venice, Italy)                                      | Micro-mesoporous CuZSM-5@HMS nanocomposite for transformation of biomass derived sugars to levulinic acid   |
| 12:00-12:30                 | Keynote Lecture<br>Assoc. Prof. Kamran Akhbari<br>(University of Tehran)  | Metal-Organic Frameworks as Nanoporous Carrier Systems with High Loading Potential and Sustained Release of Drug for Effective Cancer Therapy   |
| 12:30-13:00                 | Report of Executive Secretary<br>Presentation of top posters and top Oral Lecture<br>Introducing and announcing the location of the next conference | Concluding Remarks  |
| 13:00-14:00                 | Prayer and Lunch Break  |   |



قابل توجه کلیه پژوهشگران و دانشجویان گرامی:

۱- لطفاً کارت شناسایی عکس دار به همراه داشته باشید.

۲- استفاده از ماسک در محیط برگزاری کنفرانس الزامی می باشد.

۳- تنها افرادی که در کنفرانس ثبت نام نموده اند و هزینه های مربوط را پرداخت کرده اند (با مقاله یا بدون مقاله) مجاز به

حضور در محیط برگزاری کنفرانس می باشند و ورود افراد همراه، به محیط برگزاری کنفرانس مجاز نمی باشد.

**برنامه کارگاه ها**

| ردیف | نام برگزار کننده         | زمان   | محل برگزاری | عنوان کارگاه  |
|------|--------------------------|--|-------------|---|
| ۱    | مهندس<br>محمد مهدی عظیمی | سه شنبه ۸ شهریور<br>ساعت ۱۱ الی ۱۳                         | سالن حکمت   | Why and how to use zeolite (clinoptilolite) in agriculture and aquaculture  |
| ۲    | دکتر<br>محمود میرزایی    | چهارشنبه ۹ شهریور<br>ساعت ۱۱ الی ۱۳<br>و<br>ساعت ۱۴ الی ۱۶ | سالن حکمت   | -آموزش نرم افزارهای اتوداک و دیسکاوری استودیو<br>-مفاهیم گیرنده-لیگاند<br>-بهینه سازی و توصیفگرها<br>-پایگاه های اطلاعات ساختاری<br>Protein Data Bank and ChemSpider<br>-ایده سازی و ارزیابی طراحی دارو |