

15th Biennial Electrochemistry Seminar of Iran
30 & 31 October 2024, Yazd university

Conference Schedule

Day 1: Wednesday morning (Oct. 30, 2024)
Amphitheater center, Dr Shahi Conference Hall, Yazd University

Time	Topic
08:15-09:05	افتتاحیه سمینار دوسالانه الکتروشیمی ایران
08:15-08:25	شروع مراسم افتتاحیه (تلاوت قرآن، پخش سرود ملی)
08:25-08:30	خیر مقدم و اعلام برنامه توسط مجری
۰۸:۳۰-۰۸:۴۰	خیر مقدم رییس دانشگاه یزد (دکتر عباس کلانتری)
۰۸:40-08:50	پخش کلیپهای دانشگاه یزد، دانشکده شیمی
۰۸:50-09:00	گزارش دبیر سمینار
09:00 – 09:05	گزارش دبیر یا رییس انجمن شیمی ایران سمینار

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Time	Lecturer	Topic
۰۹:۳۰-۰۹:۰۵	Masoud Ayatollahi Dept. of Chemistry, Faculty of Science, Isfahan University	Molecular drama on the interface: Where impossible becomes possible
۱۰:۰۵-۰۹:۳۵	Mojtaba Bagherzadeh Reactor and Nuclear Safety Research School, Nuclear Science and Technology Research Institute, 81465-1589, Tehran, Iran.	Electrochemical corrosion under radioactive irradiation
10:05-11:05	Posters and Break	
۱۱:۲۵-۱۱:۰۵	<u>Armin Sadeghinia</u> ^a , Seyedmousa Motavallihaghi, ^b Sajad Shanesaz, ^a Davood Nematollahi ^{a,c*} ^a Faculty of Chemistry and Petroleum Sciences, Bu-Ali Sina University, Hamedan, Iran ^b Department of Medical Parasitology and Mycology, School of Medicine, Hamadan University of Medical Sciences, Hamadan, Iran ^c Planet Chemistry Research Center, Bu-Ali Sina University, Hamedan, Iran	Investigating the stability of glucantime, an anti-leishmaniasis drug, using electrochemical methods

-۱۱:۴۵ ۱۱:۲۵	<u>Fatemeh Shiravani</u> , Javad Tashkhourian, ^{1*} Omid Estakhr, and Amin Reza Zolghadr Department of Chemistry, Faculty of Sciences, Shiraz University, Shiraz 71454, Iran	Heteroatom doping of red phosphorus and sulfur in g-C ₃ N ₄ and the combination with N-doping ZnO nanorods as a novel heterojunction and effective approach for developing photoanode in dye-sensitized solar cells
-۱۲:۰۵ ۱۱:۴۵	<u>Mohammad Safarpoor</u> ^{a*} , Rassoul Dinarvand ^a , Mehrorang Ghaedi ^b , Arash Asfaram ^c ^a Nanotechnology Research Center, Faculty of Pharmacy, Tehran University of Medical Sciences, Tehran, Iran ^b Department of Chemistry, Yasouj University, Yasouj, Iran ^c Medicinal Plants Research Center, Yasuj University of Medical Sciences, Yasuj, Iran	Design and fabrication of an electrochemical-based PANI@V ₂ C.AuNPS MXene Quantum Dot immunosensor for detection of prostate cancer biomarker in Human Serum
12:05-13:30	Prayer, Lunch and Break	

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Time	Lecturer	Topic
11:05-12:05	S. Mostafa Mirhosseini شرکت آرمان مهر جم	AFM آشنایی با اصول میکروسکوپ نیروی اتمی
12:05-13:30	Prayer, Lunch and Break	

Day 1: Wednesday Afternoon (Oct. 30, 2024)
Amphitheater center, Dr Shahi Conference Hall, Yazd University

Time	Lecturer	Topic
13:40-14:00	<u>Pouya Abedi</u> ^a , Mohammad Kazemzadeh ^a , Atefeh Abin ^b , Khalil Farhadi ^{a*} ^a Department of Analytical Chemistry, Faculty of Chemistry, Urmia University, Urmia, Iran ^b Department of Physical Chemistry, Faculty of Chemistry, Urmia University, Urmia, Iran	Development of a High- Capacity Supercapacitor Electrode through Electrodeposition of MnO ₂ on Vertically Aligned Graphene- Graphite Substrate
۱۴:۲۰ ۱۴:۰۰	Amir Hatami, ^{*a,b,c} ^a Metabolic Research Unit, Department of Physiology, Sahlgrenska Academy, University of Gothenburg, Gothenburg (Sweden). ^b Department of Chemistry, Institute for Advanced Studies in Basic Sciences (IASBS), Zanjan 45137-66731, (Iran). ^c Department of Chemistry and Molecular Biology University of Gothenburg, Gothenburg (Sweden).	Single-Cell Amperometry Uncovers Impaired Pore Expansion Restricts Insulin Exocytosis in Human Type 2 Diabetes
14:20-14:40	Jahan Bakhsh Raouf ^{f a *} , <u>Fatemeh Darvishnejad</u> ^a , Milad Ghani ^b ^a Electroanalytical Chemistry Research Laboratory, Department of Analytical Chemistry, Faculty of Chemistry, University of Mazandaran, Babolsar, Iran ^b Department of Analytical Chemistry, Faculty of Chemistry, University of Mazandaran, Babolsar, Iran	Electrochemical sensor based on H ₃ PW ₁₂ O ₄₀ @CS- MWCNTs-βCD modified carbon paste electrode for determination of phenolic compounds
14:40-15:00	<u>Razieh Sobhi Amjad</u> ^{a*} , Sadegh Khazalpour ^a , Seyed Javad Ahmadi ^b , Mustafa Aghazadeh ^b , Hamzeh Foratirad ^b ^a Department of Analytical Chemistry, Faculty of Chemistry, Bu-Ali Sina, Hamedan, Iran ^b Nuclear Fuel Research School, Nuclear Science and Technology Research Institute, Tehran, Iran	Electrochemical synthesis of zinc-based MOF for corrosion applications

15:00-16:00	Poster and Break	
16:00-16:40	Electrical Discharges Between Water Microdroplets in a Spray: A Possible Mechanism for Transforming Nonlife into Life on Early Earth	Richard N. Zare Department of Chemistry Stanford University Stanford, California 94305 USA
16:40-17:10	Amin Hakimzad شرکت دانش بنیان یکتا مبدل پارس یزد	Electroplating of precious metals and platinum group
17:10-20:30	بازدید از شهر	

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Time	Lecturer	Topic
13:40-15:00	S. Mostafa Mirhosseini شرکت آرمان مهر جم	FESEM روشهای تصویربرداری پیشرفته با آشکارسازهای In column BSE and In lens SE
15:00-16:00	Poster and Break	

Day 2: Thursday Morning (Oct. 31., 2024) Amphitheater center, Dr Shahi Conference Hall, Yazd University		
Time	Lecturer	Topic
8:00-8:20	<u>Hamid Dehghan-Manshadi</u> ^a , Mohammad Mazloum-Ardakani ^{b*} , Zahra Esamaeili ^b ^a Thin Layer and Nanotechnology Laboratory, Department of Chemical Technologies, Iranian Research Organization for Science and Technology (IROST), P.O. Box 33535-111, Tehran, Iran ^b Department of Chemistry, Faculty of Science, Yazd University, Yazd, Iran	Electrochemical deposition of metal oxide thin-layers on FTO glass for sensor applications
8:20-8:40	<u>Nogol Dianat Moghaddam</u> ^a , Parviz Norouzi ^b ^a Department of Chemistry, Faculty of Science, University of Tehran, Tehran, Iran ^b Department of Chemistry, Faculty of Science, University of Tehran, Tehran, Iran	Design and fabrication of electrochemical aptasensor on the electrode surface modified with nanocomposite for measuring of Avian influenza virus subtype H9N2 using fast Fourier transforms square wave voltammetry

8:40-9:00	<u>Afsaneh Azhdeh</u> ^a , Mohammad Hossein Mashhadizadeh ^{a, b*} ^a Department of analytical Chemistry, Faculty of chemistry, Kharazmi University, Tehran, Iran ^b Research Institute of Green Chemistry, Kharazmi University, Tehran, Iran	Next-Generation Photo-Electrochemical Advanced Oxidation for High-Performance Water Pollutants Removal
9:00-9:20	<u>Sara Dehghan-Chenar</u> , Hamid Reza Zare, Zahra Mohammadpour Department of Chemistry, Yazd University, Yazd, Iran	Development of a pH-sensitive smart anti-corrosion biocoating for magnesium alloys used in biomedicine
9:20- 10:20	Posters and Break	
10:20-10:50	Mehran Javanbakht Chemistry Dept., Amirkabir Industrial University	Alternatives on lithium-ion batteries: Opportunities and challenges
10:50-11:20	Balal Khalilzadeh Stem cell research cancer, Tabriz University of medical sciences	Biosensors and early-stage evaluation of silent disease
11:20-11:50	اختتامیه	
11:50-13:50	Prayer, Lunch and Break	

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Time	Lecturer	Topic
8:00-8:20	<u>Shohreh Madani</u> ^a , Amir Hatamie ^{a*} ^a Department of Chemistry, Institute for Advanced Studies in Basic Sciences (IASBS), Prof. Sobouti Boulevard, PO-Box 45137-66731, Zanjan, Iran.	Microscale-Electroanalytical Lab in a Single Micropipette Tip for Electroanalysis of Nitrite Ions in Bio and Environmental Samples
8:20-8:40	<u>Zahra Godini</u> ^a , Davood Nematollahi ^{*a,b} , Niloofar Mohamadighader ^a ^a Faculty of Chemistry and Petroleum Sciences, Bu-Ali Sina University, Hamedan, Iran ^b Planet Chemistry Research Center, Bu-Ali Sina University, Hamedan, Iran	Electrochemical late stage modification of clonazepam: A green strategy for the synthesis of sulfonamide derivatives

8:40-9:00	<p><u>Javad Ghadimi</u>^{a,b,*}, Sara Asgari^b, Akbar Rezaei SarvOlya^a, AliReza Zolfagharian^a, Babak Ebadi^a, Mahdi Piroozmand^a</p> <p>^aDepartment of BioElectronic, PNR Co., Tehran, Iran ^bDepartment of Research and Technology, Imam Khomeini Oil Refining Co., Arak, Iran</p>	Design and fabrication of an electroforming machine to produce security holograms and improve their quality using nickel sulfamate solution
9:00-9:20	<p><u>Laleh Sharif</u>^{a,b}, Ali Benvidi^{a,*}, Sedigheh Zeinali^b, Behzad Haghghi^c</p> <p>^a Department of Chemistry, Faculty of Science, Yazd University, Yazd, Iran ^b Nanochemical Engineering Department, Faculty of Advanced Technologies, Shiraz University, Shiraz, Iran ^c Department of Chemistry, College of Sciences, Shiraz University, Shiraz, Iran *E-mail: laleh.sharif@gmail.com</p>	Binary Metal Organic Frameworks Derived Hierarchical Hollow microspheres Ni/Co@Carbon composites as an efficient bifunctional electrocatalysts for Overall Water-Splitting
9:20 -10:20	Posters and Break	
11:20-11:50	اختتامیه	
11:50-13:50	Prayer, Lunch and Break	