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

Conference Schedule

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| 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 |
| 08:40-08:30 | خیر مقدم رییس دانشگاه یزد (دکتر عباس کلانتری) |
| 08:40-08:50 | پخش کلیپ‌های دانشگاه یزد، دانشکده شیمی |
| 08:50-09:00 | گزارش دبیر سمینار  |
| 09:00 – 09:05 | گزارش دبیر یا رییس انجمن شیمی ایران سمینار |

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|   **Day 1: Wednesday morning (Oct. 30, 2024)** **Amphitheater center, Dr Shahi Conference Hall, Yazd University** |
| Time | Lecturer | Topic |
| 09:35-09:05 | Masoud AyatollahiDept. of Chemistry, Faculty of Science, Isfahan University | Molecular drama on the interface: Where impossible becomes possible |
| 10:05-09:35 | Mojtaba BagherzadehReactor 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 |
| 11:25-11:05 | Armin Sadeghiniaa, Seyedmousa Motavallihaghi,b Sajad Shanesaz,a Davood Nematollahia,c\* aFaculty of Chemistry and Petroleum Sciences, Bu-Ali Sina University, Hamedan, IranbDepartment of Medical Parasitology and Mycology, School of Medicine, Hamadan University of Medical Sciences,Hamadan, IrancPlanet Chemistry Research Center, Bu-Ali Sina University, Hamedan, Iran | Investigating the stability of glucantime, an anti-leishmaniasis drug, using electrochemical methods |
| 11:45-11:25 | Fatemeh Shiravani, Javad Tashkhourian,[[1]](#footnote-1)\* Omid Estakhr, and Amin Reza ZolghadrDepartment of Chemistry, Faculty of Sciences, Shiraz University, Shiraz 71454, Iran | Heteroatom doping of red phosphorus and sulfur in g-C3N4 and the combination with N-doping ZnO nanorods as a novel heterojunction and effective approach for developing photoanode in dye-sensitized solar cells |
| 12:05-11:45 | Mohammad Safarpoor a\*, Rassoul Dinarvanda, Mehrorang Ghaedi b, Arash Asfaram ca Nanotechnology Research Center, Faculty of Pharmacy, Tehran University of Medical Sciences, Tehran, Iranb Department of Chemistry, Yasouj University, Yasouj, Iranc Medicinal Plants Research Center, Yasuj University of Medical Sciences, Yasuj, Iran | Design and fabrication of an electrochemical-based PANI@V2C-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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| **Day 1: Wednesday morning (Oct. 30, 2024)** **Amphitheater center, Andisheh Hall, Yazd University** |
| Time | Lecturer | Topic |
| 11:05-12:05 | S. Mostafa Mirhosseiniشرکت آرمان مهر جم | AFMآشنایی با اصول میکروسکوپ نیروی اتمی |
| 12:05-13:30 | Prayer, Lunch and Break |

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| **Day 1: Wednesday Afternoon (Oct. 30, 2024)** **Amphitheater center, Dr Shahi Conference Hall, Yazd University** |
| Time | Lecturer | Topic |
| 13:40-14:00 | Pouya Abedia, Mohammad Kazemzadeha, Atefeh Abinb, Khalil Farhadia\*aDepartment of Analytical Chemistry, Faculty of Chemistry, Urmia University, Urmia, IranbDepartment of Physical Chemistry, Faculty of Chemistry, Urmia University, Urmia, Iran | Development of a High-Capacity Supercapacitor Electrode through Electrodeposition of MnO2 on Vertically Aligned Graphene-Graphite Substrate |
| 14:20-14:00 | Amir Hatami, \*a,b,ca 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 Raoof a \*,Fatemeh Darvishnejada, Milad Ghanib aElectroanalytical Chemistry Research Laboratory, Department of Analytical Chemistry, Faculty of Chemistry, University of Mazandaran, Babolsar, IranbDepartment of Analytical Chemistry, Faculty of Chemistry, University of Mazandaran, Babolsar, Iran | Electrochemical sensor based on H3PW12O40@CS-MWCNTs-βCD modified carbon paste electrode for determination of phenolic compounds |
| 14:40-15:00 | Razieh Sobhi Amjada\*, Sadegh Khazalpoura, Seyed Javad Ahmadib, Mustafa Aghazadehb, Hamzeh ForatiradbaDepartment of Analytical Chemistry, Faculty of Chemistry, Bu-Ali Sina, Hamedan, IranbNuclear Fuel Research School, Nuclear Science and Technology Research Institute, Tehran, Iran | Electrochemical synthesis of zinc-based MOF for corrosion applications |

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| 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. ZareDepartment of ChemistryStanford UniversityStanford, California 94305 USA |
| 16:40-17:10 | Amin Hakimzadشرکت دانش بنیان یکتا مبدل پارس یزد | Electroplating of precious metals and platinum group |
| 17:10-20:30 | بازدید از شهر |

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| **Day 1: Wednesday Afternoon (Oct. 30, 2024)****Amphitheater center, Andisheh Hall, Yazd University** |
| Time | Lecturer | Topic |
| 13:40-15:00 | S. Mostafa Mirhosseiniشرکت آرمان مهر جم | FESEMروشهای تصویربرداری پیشرفته با آشکارسازهای In column BSE and In lens SE |
| 15:00-16:00 | Poster and Break |

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| **Day 2: Thursday Morning (Oct. 31., 2024)****Amphitheater center, Dr Shahi Conference Hall, Yazd University** |
| Time | Lecturer | Topic |
| 8:00-8:20 | Hamid Dehghan-Manshadia, Mohammad Mazloum-Ardakanib\*, Zahra EsamaeilibaThin Layer and Nanotechnology Laboratory, Department of Chemical Technologies, Iranian Research Organization for Science and Technology (IROST), P.O. Box 33535-111, Tehran, IranbDepartment 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  | Nogol Dianat Moghaddama, Parviz Norouzib aDepartment of Chemistry, Faculty of Science, University of Tehran, Tehran, IranbDepartment 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 | Afsaneh Azhdeha, Mohammad Hossein Mashhadizadeh a, b\* aDepartment of analytical Chemistry, Faculty of chemistry, Kharazmi University, Tehran, Iranb 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 | Sara Dehghan-Chenar, Hamid Reza Zare, Zahra MohammadpourDepartment 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 JavanbakhtChemistry Dept., Amirkabir Industrial University | Alternatives on lithium-ion batteries: Opportunities and challenges |
| 10:50-11:20 | Balal KhalilzadehStem 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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| **Day 2: Thursday morning (Oct. 31, 2024)** **Amphitheater center, Andisheh Hall, Yazd University** |
| Time | Lecturer | Topic |
| 8:00-8:20 | Shohreh Madani 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 Tipfor Electroanalysis of Nitrite Ions in Bio and Environmental Samples |
| 8:20-8:40 | Zahra Godini,a Davood Nematollahi\*a,b, Niloofar Mohamadighader aaFaculty of Chemistry and Petroleum Sciences, Bu-Ali Sina University, Hamedan, IranbPlanet 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 | Javad Ghadimia,b\*, Sara Asgarib, Akbar Rezaei SarvOlyaa , AliReza Zolfaghariana, Babak Ebadia, Mahdi PiroozmandaaDepartment of BioElectronic, PNR Co., Tehran, IranbDepartment of Research and Technology, Imam Khomeini Oil Refining Co., Arak, Iran | Design and fabrication of an electroforming machine to produce security holograms and improve their quality using nickel sulfamate solution |
| 9:00-9:20 | Laleh Sharif a,b, Ali Benvidi a,\*, Sedigheh Zeinali b , Behzad Haghighi ca Department of Chemistry, Faculty of Science, Yazd University, Yazd, Iranb Nanochemical Engineering Department, Faculty of Advanced Technologies, Shiraz University, Shiraz, Iranc Department of Chemistry, College of Sciences, Shiraz University, Shiraz, Iran\*E-mail: laleh.sharif@gmail.com  | 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 |

1. [↑](#footnote-ref-1)