

## Curriculum Vitae

### Contact Information:

**Name:** Vali Alizadeh  
**Cell Phone:** +989370449407  
**Email:** [valializadeh.chem@gmail.com](mailto:valializadeh.chem@gmail.com)



### Educational Records:

**Ph.D:** Tarbiat Modares University  
**M.Sc.:** Kurdistan University  
**B.Sc.:** Guilan University

### Seminar and Conferences:

- 1.ValiAlizadeh**, Mir FazllolahMousavi, MasoudAyatollahi, “ Monolayer-Protected gold Nanoparticle film assembly as platform for investigation of electron transfer in cytochrome c using cyclic voltammetry (CV) and scanning electrochemical microscopy (SECM) ”, **Poster**, Presented in 15<sup>th</sup> Iranian chemistry congress, Bu-Ali Sina university, Hamedan, **Iran**, 4-6 September 2011.
- 2.ValiAlizadeh**, Mir FazllolahMousavi, MasoudAyatollahi, “ Studying of Tunneling current of cytochrome c immobilized on the self-assembled monolayer by SECM ”, **Lecture**, Presented in 8<sup>th</sup> Biannual Iranian Seminar of Electrochemistry, University of Kurdistan, Sanandaj, **Iran**, 13-24 July 2009.
- 3.ValiAlizadeh**, Mir FazllolahMousavi, MasoudAyatollahi,“Electrochemical Investigation of Cytochrome c Immobilized on Captopril Self Assembled Monolayer (SAM) by Cyclic Voltammetry and Scanning Electrochemical Microscopy(SECM)”, **Poster**, presented in 6<sup>th</sup> Workshop on SECM, Frejus, **France**, 3-7 October 2010.
- 4.ValiAlizadeh**, AbdollahSalimi,“Preparation of Carbon Ceramic electrode Modified with Cupper Complexes in Determination of Bromate Ion”**Poster**, presented in 13<sup>th</sup> Annual Iranian seminar of Analytical Chemistry, University of Ferdovsi, Mashhad, **Iran**, 20-23 July 2004.
- 5.ValiAlizadeh**, “Studying of Electron Transfer Rate Constant of Cytochrome c Immobilized on Nanoparticle Decorated Hybrid System by Cyclic Voltammetry Technique” **Oral Presentation**, presented in 20<sup>th</sup> Iranian Physical ChemistryConference, 2017.
- 6.ValiAlizadeh**, Masoud A. Mehrgardi, Mir FazllolahMousavi, Cytochrome c- Gold Nanoparticle Hybrid System for Studying of Long-Range Interfacial Electron Transfer by Cyclic

Voltammetry and Scanning Electrochemical Microscopy (SECM) Techniques, **Poster**, presented in 24<sup>th</sup> Iranian Chemical Society Seminar of Analytical Chemistry, 2017.

**7. Vali Alizadeh**, Studying of Electron Transfer Kinetics of Azurin Immobilized on New Phenolic Terminated Self Assembled Monolayer by Scanning Electrochemical Microscopy, **Poster**, Presented in 21<sup>st</sup> ICS Conference on Physical Chemistry, 6-8 September 2018.

**8. Vali. Alizadeh**, Studying of Electron Transfer Rate Constant Of Cytochrome c Immobilized on Nanoparticle Decorated Hybrid System by Cyclic Voltammetry Thechnique, **Oral Presentation**, 20<sup>th</sup> Iranian Physical chemistry, 20-22 August 2017.

**9. vali Alizadeh**, Synthesis of Dihydropyrimidinones by Hydrid Ionic Liqid Kegging Hetropolyoxometalate, **Poster**, 25<sup>th</sup> Iranian Seminar of Organic Chemistry, 2-4 September 2017.

**10. Vali Alizadeh**, Synthesis of Xanthanes by Hybrid Ionic Liquid-Kegging Heteropolyoxometalate, **Poster**, 25<sup>th</sup> Iranian Seminar of Organic Chemistry, 2-4 September 2017.

**11. Vali Alizadeh**, Hamidreza Ghenaatian, Application of Magnetic Iron Nanoparticles to Remove Nickel Ions from Water, **Poster**, 10<sup>th</sup> National Seminar on Chemistry and Environment of Iran, 1-2 November 2021.

**12. Vali Alizadeh**, Hamidreza Ghenaatian, Study of Inhibitory Effect of Three Amino Acids Cysteine, Arginine and Proline as Green Inhibitors on Corrosion of Lead Alloy, **Poster**, 10<sup>th</sup> National Seminar on Chemistry and Environment of Iran, 1-2 November 2021.

**13. Vali Alizadeh**, Hamidreza Ghenaatian, Effective Removal of Congo red from the Aqueous Medium by Polyaniline Coated on Wood Powder, **Poster**, The 8<sup>th</sup> International Color & Coating Congress, 13-14 October 2021.

**14. Vali Alizadeh**, Hamidreza Ghenaatian, Photocatalytic Degradation of Organic Dyes by Tin Oxide Nanoparticles Synthesized in Mulberry Leaf Extract, **Poster**, The 8<sup>th</sup> International Color & Coating Congress, 13-14 October 2021.

**15. Vali Alizadeh**, Hamidreza Ghenaatian, Sonothermal Synthesis of Nickel-Manganese Oxide Nanostructures and Its Application in Lithium Batteries, **Oral Presentation**, 1<sup>st</sup> National Lithium Battery Conference, 22-23 December 2021.

**16. Vali Alizadeh**, Synthesis of a New Schiff Base Compound and Its Effect on the Corrosion Inhibition Efficiency for mild steel in Hydrochloric Acid, **Poster**, 28<sup>th</sup> Iranian Conference on Organic Chemistry, 1-3 March 2022.

**17. Vali Alizadeh**, Synthesis of Molecular Imprinted Polymer to Prepare Graphene Composite and its Application in Methylene Blue Sensing, **Poster**, 28<sup>th</sup> Iranian Conference on Organic Chemistry, 1-3 March 2022.

**18. Vali Alizadeh**, Ahmad Jamali Moghadam, Electrochemical insight into the cytochrome c adsorption on graphene and graphene oxide/self assembled monolayer surfaces and study of its electron transfer kinetics, **Poster**, 23<sup>th</sup> ICS Physical Chemistry Conference, 12-13 January 2022.

**19. Vali Alizadeh**, Ahmad Jamali Moghadam, Study of tunneling electron transfer on Graphene nanoplatelet /Self assembled monolayer modified gold electrode by electrochemical techniques, **Oral Presentation**, 23<sup>th</sup> ICS Physical Chemistry Conference, 12-13 January 2022.

**20. Mehdi Shakourian - Fard\***, Hamid Reza Ghenaatian, **Vali Alizadeh**, The Interaction of Imidazolium and Ammonium-Based Ionic Liquids (ILs) with Fluorographene (FG) Surface: A DFT Study, 29<sup>th</sup> Iranian Organic Chemistry Conference.

**21. Mehdi Shakourian - Fard\***, Hamid Reza Ghenaatian, **Vali Alizadeh**, Adsorption of Cadmium (Cd), Mercury (Hg), and Lead (Pb) Metal Atoms on the Graphene and Heteroatom Doped Graphene Surfaces: A DFT Study, 29<sup>th</sup> Iranian Organic Chemistry Conference.

**22. Hamid Reza Ghenaatian\***, **Vali Alizadeh**, Signal Amplification of Immobilized Genomic DNA on Carbonized Polyaniline Nanofibers, 4<sup>th</sup> Iranian Catalyst Conference.

**23. Hamid Reza Ghenaatian\***, Vali Alizadeh, Bioelectrocatalytic effects of a short oligonucleotide sequence on  $\beta$ -Hydroxy Acids and Signal Amplification of Immobilized Genomic DNA on Carbonized Polyaniline Nanofibers, 4<sup>th</sup> Iranian Catalyst Conference.

**24. Vali Alizadeh\***, Graphene Nanoplatelet /Pyrenecarboxylic Acid (GrNP/PCA) Nanostructure Adsorbed on Low Cost Pencil Electrode for Sensitive and Selective Detection of Dopamine, Third International Nanotech-Eurasia Conference September 5-7, 2024, Istinye University, Istanbul, Turkey.

### **Publications:**

**1. Abdollah Salimi, Vali Alizadeh, Richard G. Compton**, Disposable Amperometric Sensor for Neurotransmitters Based on Screen-Printed Electrodes Modified with a Thin Iridium Oxide Film, Analytical Science, 21, **2005**, 1775-1780.

2. Abdollah Salimi, **ValiAlizadeh**, Hassan Haddadzadeh, Renewable Surface Sol-gel Derived Carbon Ceramic Electrode Modified with Copper Complex and Its Application as an Amperometric Sensor for Bromate Detection, *Electroanalysis*, 16, **2004**, 1984-1991.
3. Abdollah Salimi, **ValiAlizadeh**, Rahman Hallaj, Amperometric detection of ultra-trace amounts of Hg(I) at the surface boron doped diamond electrode modified with iridium oxide, *Talanta*, 68, **2006**, 1610-1616.
4. **ValiAlizadeh**, Mir Fazlollah Mousavi, Masoud Ayatollahi Mehrgardib, Sayed Habib Kazemic, Hashem Sharghid, Electron Transfer Kinetics of Cytochrome c Immobilized on Newly Synthesized Phenolic Terminated Self Assembled Monolayer Determined by Scanning Electrochemical Microscopy, *Electrochimica Acta*, 56, **2011**, 6224– 6229.
5. **ValiAlizadeh**, Mir Fazlollah Mousavi, Masoud Ayatollahi Mehrgardi, Electrochemical Investigation of Cytochrome c Immobilized onto Self-Assembled Monolayer of Captopril, *Electroanalysis*, 25, **2013**, 1689 –1696
6. Hamid Reza Ghorbani, **ValiAlizadeh**, Ferdos Parsa Mehr, Houman Jafarpour golroudbary, Khashayar Erfan, Sogand Sadeghi Yeganeh, Preparation of polyurethane/CuO Coating Film and the Study of Antifungal Activity, *Progress in Organic Coatings*, 123, **2018**, 322–325
7. Vahid Zarei\*, Mojtaba Mirzaasadi, Marischa Elveny\*, Seyed Mehdi Seyed Alizadeh, **Vali Alizadeh\***, Alireza Nasiri, Afrasyab Khan, Improving the rheological properties and thermal stability of water-based drilling fluid using biogenic silica nanoparticles, *Energy Reports*, 7, **2021**, 6162–6171.
8. Mehdi Shakourian-Fard\*, Hamid Reza Ghenaatian, **Vali Alizadeh**, Ganesh Kamath, Behzad Khalili, Density Functional Theory Investigation into the Interaction of Deep Eutectic Solvents with Amino Acids, *Journal of Molecular Liquids*, 343, **2021**, 117624-117632.
9. Malihe Zeraati, **Vali Alizadeh\***, Parya Kazemzadeh, Moosareza Safinejad, Hossein Kazemian, Ghasem Sargazi\*, A new nickel metal organic framework (Ni-MOF) porous nanostructure as a potential novel electrochemical sensor for detecting glucose, *Journal of Porous Materials*, 29, **2022**, 257–267.
10. Hamid Reza Ghenaatian\*, Mehdi Shakourian-Fard, **Vali Alizadeh**, Ganesh Kamath, DFT study of interaction of Palladium Pd<sub>n</sub> (n = 1–6) nanoparticles with deep eutectic solvents, *Journal of Molecular Graphics and Modelling*, 110, **2022**, 108072-108082.
11. Malihe Zeraati, **Vali Alizadeh**, Supat Chupradit, Narendra Pal Singh Chauhan\*\*, Ghasem Sargazi\*, Green synthesis and mechanism analysis of a new metal-organic framework

constructed from Al (III) and 3,4-dihydroxycinnamic acid extracted from *Satureja hortensis* and its anticancerous activities, *Journal of Molecular Structure*, 1250, **2022**, 131712-131721.

**12. Vali Alizadeh**, Ghodrat Mahmoudi\*, Marina A. Vinokurova, Kuzma M. Pokazeev, Kseniia A. Alekseeva, Barbara Miroslaw, Ali Akbar Khandar, Antonio Frontera\*, Damir A. Safin, Spodium bonds and metal–halogen...halogen–metal interactions in propagation of monomeric units to dimeric or polymeric architectures, *Journal of Molecular Structure*, 1252, **2022**, 132144-132159.

**13. Vali Alizadeh**, Preparation a novel 1-pyreneacetic acid functionalized graphene/self-assembled monolayer modified gold electrode to immobilize and study interfacial electron transfer of cytochrome c by electrochemical approaches, *Chemical Physics Letters*, 787, **2022**, 139187-139195.

**14.** Ghodrat Mahmoudi\*, **Vali Alizadeh**, Alfonso Castineiras, Farhad Akbari, Afkhami, Mariusz Paweł Mitoraj, Dariusz Szczepanik, Irina A. Konyaeva, Koen Robeyns, Damir Safin, Quasi-aromatic Möbius chelates of Cadmium(II) nitrite and/or nitrate, *CrystEngComm*, 24, **2022**, 2836–2844.

**15.** Taher Shahryari, **Vali Alizadeh**, Parya Kazemzadeh, Sapana Jadoun, Narendra Pal Singh Chauhan, Ghasem Sargazi\*, A controllable procedure for removing *Navicula* algae from drinking water using an ultrasonic-assisted electrospun method for highly efficient synthesis of Co-MOF/PVA polymeric network, *Applied Physics A*, 128, **2022**, 396.

**16. Vali Alizadeh**, G. Mahmoudi\*, E. Priola, Saikat Kumar Seth, J. White, A. Frontera, D. Safin, Helical coordination complex of  $\text{Hg}(\text{ClO}_4)_2$  with bulky hydrazone derivative: a Möbius-like discrete metal chelate, *Inorganic Chemistry Communications*, 149, **2023**, 110393.

**17. Vali Alizadeh**, Isabel Garcia-Santos\*, Alfonso Castiñeiras, Ghodrat Mahmoudi\*\*, Damir A. Safin\*\*\*. A pyrazinamide-benzenesulfonohydrazide hybrid  $\text{N}'$ -(phenylsulfonyl) pyrazine-2-carbohydrazonamide: Experimental and theoretical insights, *Tetrahedron*, 162, **2024**, 134066.

**18.** Ghodrat Mahmoudi, Damir Safin, Antonio Frontera, **Vali Alizadeh**, Alfonso Castineiras, Rosa Maria Gomila, Isabel Garcia-Santos and Maria Elena Labisbal-Viqueria, The lead(II)– $\text{N}'$ -isonicotinoylpyrazine-2-carbohydrazonamide complex system as a converter of aerial carbon dioxide to carbonate under electrochemical conditions with the formation of a single-component white light-emitting phosphor, *CrystEngComm*, **2024**, 26, 4205.

**19.** Ghodrat Mahmoudi, Isabel Garcia-Santos\*, Elena Labisbal, Alfonso Castiñeiras, **Vali Alizadeh\***, Rosa M. Gomila, Antonio Frontera\* and Damir A. Safin\*. Aerial carbon dioxide conversion to carbonate mediated by the lead(II) complex with tridentate bipyridine containing hydrazide ligand under electrochemical conditions yielding single-component white light-emitting phosphors, *Inorg. Chem. Front.*, **2024**, 11, 6135-6145.

**20.** Ghodrat Mahmoudi, Isabel Garcia-Santos\*, Elena Labisbal, Alfonso Castiñeiras, **Vali Alizadeh\***, Rosa M. Gomila, Antonio Frontera\*, Damir A. Safin\*, A Nanosized Porous Supramolecular Lead(II)–N'-phenyl(pyridin-2-yl)methylene-N-phenylthiosemicarbazide Aggregate, Obtained Under Electrochemical Conditions, *Inorganic Chemistry*, **2024**, 63, 40, 18581–18588.

**21.** Ghodrat Mahmoudi, Mojtaba Hosseini-fard, Ahmad Jamali Moghadam, Masoumeh Servati Gargari and **Vali Alizadeh\***, A Novel, Extreme Simple Modification of Low-Cost Pencil Graphite Electrode (PGE) by Single Walled Carbon Nanotube/Pyrenebutyric Acid (SWCNT/PBA) Nanostructure for Sensitive and Selective Detection of Adrenaline, *J Mater Sci: Mater Electron*, **2025**, 36, 233.

### **Memberships:**

1. Iranian Chemical Society
2. Iranian Electrochemical Society

### **Research Interests:**

Preparation of novel nano-structured materials and their applications.

### **Teaching Experiences:**

#### **M.Sc:**

1. Advanced Electrochemistry, Fundamentals and applications.
2. Chemical and Physical Separation Methods.
3. Trace Analysis

#### **B.Sc:**

1. Corrosion of Metals in Petroleum Engineering.
2. Physical Chemistry.
3. Organic Chemistry.