“Curriculum Vitae”

Kamran Dastafkan

1) Personal Information

Date of birth:	**12/06/1986**
Place of birth:	**Sari, Iran**
Gender:	**Male**
Nationality:	**Iranian**
Passport No.	**Z35991928**
Marital status:	**Single**
Cell phone:	**0410386951**
Postal Code:	**2036**
Address	**2/1 Elliot Place, Hillsdale, Sydney, NSW, Australia**
Email	k.dastafkan@student.unsw.edu.au , Kamran.a.chem@gmail.com

2) Work History

Professional experience (Full time)

- **July 2015 – July 2017**

  Employer: KAVA Research Institute
  Type of Business: R&D, Research
  Address: No. 308, Jamalzadeh St., Enghelab Square, Tehran, Iran
  Position: Researcher
  Duties: Conducting Research projects in nanotechnology fields such as nanofabrication and synthesis, separation, sensors, luminescent nanomaterials.

- **July 2013 – July 2015 (Full-time)**

  Military Service in I.R. Army-Tehran, Iran

- **Sep 2012 – July 2013**

  Employer: Self-employed
  Type of Business: Education
  Address: No. 2, Fadak 2 Alley, Fadak St., Payam Noor St., 15 Khordad Ave., Sari, Mazandaran, Iran.
  Position: Instructor
  Duties: Teaching general and Hi school chemistry to applicants which were preparing for Bachelor of Science entrance exam

- **July 2011-Sep 2012 (Part-time)**

  Employer: Center of Analysis, Faculty of Engineering, University of Tehran
  Type of Business: Research
  Address: 16 Azar Ave., Enghelab Square, Tehran, Iran.
  Position: Researcher
  Duties: Conducting Research projects in nanoadsorption fields such as nanofabrication and synthesis, separation, solid phase extraction, liquid-liquid phase extraction, liquid phase micro-extraction.

Part-time experience

- **July 2015 – July 2017**

  Employer: Coffeehouse
  Type of Business: Food and entertainment
  Address: No. 244, Jamalzadeh St., Enghelab Square, Tehran, Iran
  Duties: Greeting customers, serving tea & coffee, taking-filling orders

3) Academic Background

- **August 2017-Present**

  Qualification: Doctor of Philosophy (PhD)- Nano-Electrochemistry
  Provider: University of New South Wales, Sydney, Australia
  Address: Sydney NSW 2052
  PhD. Thesis Title: "Gas bubble evolution mechanisms and electrochemical efficiency in whole water splitting through electrolyte and electro-catalyst optimization"
  Supervisor: Professor Chuan Zhao

- **Sep 2010 – Sep 2012**

  Qualification: Master of Science- Analytical Chemistry
  Provider: University of Zabol, Sistan and Baluchestan, Iran
  GPA: 16.58 out of 20.00
  M. Sc. thesis Title: "Silver nanoparticles attached to silica gel as a new solid phase adsorbent for preconcentration and determination of iron from biological samples"
  Thesis Grade: 19.80 out of 20.00
  Supervisor: Prof. Mostafa Khajeh, Prof. Mansour Ghaffari Moghaddam

- **Oct 2009 – Aug 2010**

  I had been studying hard to prepare for the university (Master of Science) entrance exam

- **Sep 2005 – Oct 2009**

  Qualification: Bachelor of Science- Applied Chemistry

Provider: University of Sistan and Baluchestan, Zahedan, Sistan and Baluchestan, Iran
GPA: 14.09 out of 20.00

- **June 2004 – Aug 2005**

  I had been studying hard to prepare for the university (Bachlor of Science) entrance exam

- **Sep 2003 – June 2004**

  Qualification: Pre-university Degree in Experimental Sciences
  Provider: Mirdamad High School
  Address: Varzesh St., Ferdowsi Ave., Sari, Mazandaran, Iran

- **Sep 2000 – June 2003**

  Qualification: 1st, 2nd, and 3rd grade of High School Diploma
  Provider: Mirdamad High School
  Address: Varzesh St., Ferdowsi Ave., Sari, Mazandaran, Iran

4) Publications

1. Khajeh, M. and **Dastafkan, K**. Silver nanoparticles attached to silica gel as a new solid phase adsorbent for preconcentration and determination of iron from biological samples. *J. Appl. Spectros.* **2012**, 79, 5, 788-792. DOI: 10.1007/s10812-012-9672-5
2. Khajeh, M. Laurent, S. **Dastafkan, K**. Nanoadsorbents, Classification, Preparation and Applications (with Emphasis on Aqueous Media). *Chem. Rev.* **2013**, 113, 7728-7768. DOI: 10.1021/cr400086v
3. Khajeh, M. and **Dastafkan, K**. Removal of molybdenum using silver nanoparticles from water samples: Particle swarm optimization–artificial neural network. *J. Ind. Eng. Chem.* **2014**, 20, 3014-3018. DOI: 10.1016/j.jiec.2013.11.036
4. **Dastafkan, K**. Khajeh, M. Ghaffari-Moghaddam, M. Bohlooli. M. Silver nanoparticles for separation and preconcentration processes. *Trends Anal. Chem.; TrAC* **2015**, 64, 118-126. DOI: 10.1016/j.trac.2014.08.017
5. Aleebrahim Dehkordi H. **Dastafkan, K**. Moshaii, A. Mokhtari, A. Thermal post-annealing and gas concentration effect on liquid petroleum gas sensing characteristics of nanocrystalline zinc oxide thin films. *J. Mater. Sci. Mater.*

Electron. **2015**, 26, 3134-3142. DOI: 10.1007/s10854-015-2808-7

6. **Dastafkan, K.** Sadeghi, M. Obeydavi, A. Manganese dioxide nanoparticles-silver-Y zeolite as a nanocomposite catalyst for the decomposition reactions of O, S-diethyl methylphosphonothiolate. *Int. J. Sci. Technol.* **2015** 12, 905-918. DOI: 10.1007/s13762-014-0701-1
7. **Dastafkan, K**. Khajeh, M. Bohlooli. M. Ghaffari-Moghaddam, M. Sheibani, N. Mechanism and behavior of silver nanoparticles in aqueous medium as adsorbent. *Talanta* **2015**, 144, 1377-1386. DOI: 10.1016/j.talanta.2015.03.065
8. Kiani, A. **Dastafkan, K**. Zinc oxide nanocubes as a destructive nanoadsorbent for the neutralization chemistry of 2-chloroethyl phenyl sulfide: A sulfur mustard simulant. *J. Colloid Interface Sci.* **2016**, 478, 271-279. DOI: 10.1016/j.jcis.2016.06.025
9. Khajeh, M. **Dastafkan, K**. Bohlooli, M. Ghaffari-Moghaddam, M. In Advanced Environmental Analysis: Applications of Nanomaterials Vol 1, Sample Preparation and Extraction Techniques Using Nanomaterials. Hussain, C. Kharisov, B. (Eds.), Royal Society of Chemistry, London, **2016**. DOI: 10.1039/9781782623625-00221
10. Obeydavi, A. **Dastafkan, K**. Rahimi, M. Ghadam Dezfouli, M.A. Insights into post-annealing and silver doping effects on the internal microstructure of ZnO nanoparticles through X-ray diffraction probe. *Solid State Sci.* **2017**, 69, 71-81. DOI: 10.1016/j.solidstatesciences.2017.05.004
11. Mokhtari, A. Soleimanian, V. Aleebrahim Dehkordi, H. **Dastafkan, K**. Applying the X-ray diffraction analysis for estimating the height and width of nanorods in low symmetry crystal multiphase materials. *J. Cryst. Growth* **2017**, 478, 58-63. DOI: 10.1016/j.jcrysgro.2017.08.026
12. Kiani, A. **Dastafkan, K**. Obeydavi, A. Rahimi, M. Solid solutions of gadolinium doped zinc oxide nanorods by combined microwave-ultrasonic irradiation assisted crystallization. *Solid State Sci.* **2017**, 74, 152-167. DOI: 10.1016/j.solidstatesciences.2017.10.002
13. **Dastafkan, K**. Kiani, A. Obeydavi, A. Rahimi, M. Crystallization and solid solution attainment of samarium doped ZnO nanorods via a combined

ultrasonic-microwave irradiation approach. *Ultrasonics Sonochem.* 2018, 42, 97-111. DOI: 10.1016/j.ultsonch.2017.11.008

14. Yang, W. **Dastafkan, K**. Jia, Chen. Zhao, C. Design of Electrocatalysts and Electrochemical Cells for Carbon Dioxide Reduction Reactions. Adv. Mater. Technol. 2018, 1700377. DOI: 10.1002/admt.201700377
15. Wang, Q. **Dastafkan, K**. Zhao, C. Design strategies for non-precious metal oxide electrocatalysts for oxygen evolution reactions. *Curr. Opin. Electrochem.* In Press. DOI: 10.1016/j.coelec.2018.03.015

5) Courses Attended

- Advanced analytical chemistry
- Advanced physical Chemistry
- Advanced organic chemistry
- Analytical electrochemistry
- Analytical spectroscopy (1)
- Chemical and physical methods of separation
- New topics in analytical chemistry (Micrextraction methods, molecular sieves, ion-exchange solid phases)
- Special topics in analytical chemistry (Nanoextraction)
- Seminar in sample pretreatment and extraction procedures

6) Laboratory Skills

- Assisting in Analytical Chem. Lab in "University of Zabol" (2010-2012)
- Research fellow at Nano-Electrochemical Lab in UNSW (2017-present)

7) Computer Skills

- Application Software: MS OFFICE (WORD, EXCEL, POWERPOINT), Origin, X'Pert Program for X-ray diffraction

8) Extracurricular Activities

- Sports: Mountain climbing
- Books, Movies, and Music

9) Language

- **Persian**: Native Language (Mother Tongue)
- **English**:

IELTS

Date	Overall	Speaking	Writing	Reading	Listening	CEFR Level
31/10/2015	**7.5**	**8.0**	**7.5**	**7.0**	**7.5**	**C1**

GRE

Date	Verbal Reasoning	Quantitative Reasoning	Analytical Writing
13/04/2015	**141**	**150**	**3.0**

May 2018