

Shokooh Sadat Khaloo

- School of public Health and Safety.
- Shahid Beheshti University of Medical Sciences, Tehran, Iran.
- Tel.: 0098-21-22432040-1
- Fax: 0098-21-22432037
- Email: sh_khaloo@sbmu.ac.ir
sh_khaloo@yahoo.com



Educational Records

- B.Sc. in Applied Chemistry, 1994-1998, University of Isfahan, Isfahan, Iran (second rank).
- M.Sc. in Analytical Chemistry, 1998-2001, University of Isfahan, Isfahan, Iran (first rank).
- Ph.D. in Analytical Chemistry, 2001- 2006, Isfahan University of Technology, Isfahan, Iran (first rank).
- Complementary Research (scientific visiting): University of Basel (Switzerland), Prof. Peter C. Hauser Group, January 15th 2005 to July 15th 2005.

Teaching Experience

Graduate

- Advanced Analytical Chemistry
- Advanced Electroanalytical Chemistry
- Analytical Spectroscopy
- Pollution control strategies

Undergraduate

- Analytical Chemistry I & II,
- Instrumental Analysis
- General Chemistry
- Instrumental Analysis Lab
- Analytical Chemistry Lab
- Environmental Chemistry

Research Interest

- Environmental Monitoring.
- Nano-technology in water and wastewater treatment.
- Electrochemical Sensors.

Honors and Awards

- 2014- The distinguished Teacher of HSE faculty, award from Shahid Beheshti University of Medical Sciences.
- 2011-Winner of scientific award of national elite foundation
- 2006- The distinguished educated in PhD between all departments of Isfahan University of Technology.
- 2006- First rank educated from chemistry department in PhD award from Isfahan University of Technology.
- 2001- First rank educated from chemistry department in MS award from Isfahan University.

Publications

- Amirkhani Ardeh S, **Khaloo SS**, Gholamnia R, Abtahi M, Saeedi R. Assessment of indoor air pollutant concentrations and emissions from natural gas cooking burners in residential buildings in Tehran, Iran. **Air Quality, Atmosphere and Health**. 2020;**13(4):409-20**.
- Saeedi R, Mozaffari S, Beigi E, **Khaloo SS**. Simultaneous adsorptive removal of organic and inorganic pollutants from aqueous solutions: Kinetic, equilibrium and thermodynamic studies. **Desalination and Water Treatment**. 2019;**162:207-19**.
- **Khaloo SS**, Saeedi R, Sanjari A. Environmental risk assessment and corrective measures for the metal rolling industry. **Environmental Monitoring and Assessment**. 2019;**191(9)**.
- Gholamnia R, Abtahi M, Saeedi R, **Khaloo SS**. Synthesis and characterization of a new magnetic adsorbent for removal of 4-nitrophenol: Application of response surface methodology. **Water Science and Technology**. 2019;**80(8):1430-42**.
- Ghalkhani M, Maghsoudi S, Saeedi R, **Khaloo SS**. Ultrasensitive quantification of paraquat using a newly developed sensor based on silver nanoparticle-decorated carbon nanotubes. **Journal of the Iranian Chemical Society**. 2019;**16(6):1301-9**.
- Ghalkhani M, **Khaloo SS**, Mirzaie RA. Klonopin assay using modified electrode with multiwalled carbon nanotubes and poly melamine nanocomposite. **Materials Science and Engineering C**. 2019;**99:121-8**.
- Abtahi M, Dobaradaran S, Jorfi S, Koolivand A, **Khaloo SS**, Spitz J, et al. Age-sex specific disability-adjusted life years (DALYs) attributable to elevated levels of fluoride in drinking water: A national and subnational study in Iran, 2017. **Water Research**. 2019;**157:94-105**.
- Mehrnoosh Abtahi, Ali Koolivand, Sina Dobaradaran, Kamyar Yaghmaeian, Anoushiravan Mohseni-Bandpei, **Shokooh Sadat Khaloo**, Sahand Jorfi and Reza Saeedi, " Defluoridation of synthetic and natural waters by polyaluminum chloride-chitosan (PACl-Ch) composite coagulant, **Water Science & Technology: Water Supply**, 18 (1), 2018: 259-269.
- Ghalkhani, Masoumeh, Maryam Salehi and **Shokooh Sadat Khaloo**. "Fabrication of a Biocompatible Nanocomposite-Based Voltammetric Sensor for Sensitive Determination of Mercazole." **Journal of Electronic Materials** 47, no. 10 (2018): 6251-6259.
- Abtahi, Mehrnoosh, Sina Dobaradaran, Sahand Jorfi, Ali Koolivand, Mohammad Reza Mohebbi, Ahmad Montazeri, **Shokooh Sadat Khaloo**, Saeed Keshmiri and Reza Saeedi. "Age-Sex Specific and Sequela-Specific Disability-Adjusted Life Years (Dalys) Due to Dental Caries Preventable through Water Fluoridation: An Assessment at the National and Subnational Levels in Iran, 2016." **Environmental Research** 167, (2018): 372-385.
- Abtahi, Mehrnoosh, Ali Koolivand, Sina Dobaradaran, Kamyar Yaghmaeian, **Shokooh Sadat Khaloo**, Sahand Jorfi, Saeed Keshmiri, Amir Hossein Nafez and Reza Saeedi. "National and Subnational Mortality and Disability-Adjusted Life Years (Dalys) Attributable to 17

Occupational Risk Factors in Iran, 1990–2015." *Environmental Research* **165**, (2018): 158-175.

- Abtahi, Mehrnoosh, Ali Koolivand, Sina Dobaradaran, Kamyar Yaghmaeian, Anoushiravan Mohseni-Bandpei, **Shokooh Sadat Khaloo**, Sahand Jorfi and Reza Saeedi. "Defluoridation of Synthetic and Natural Waters by Polyaluminum Chloride-Chitosan (PaCl-Ch) Composite Coagulant." *Water Science and Technology: Water Supply* **18**, no. 1 (2017): 259-269.
- Abtahi, Mehrnoosh, Ali Koolivand, Sina Dobaradaran, Kamyar Yaghmaeian, Anoushiravan Mohseni-Bandpei, **Shokooh Sadat Khaloo**, Sahand Jorfi and Reza Saeedi. "National and Sub-National Age-Sex Specific and Cause-Specific Mortality and Disability-Adjusted Life Years (Dalys) Attributable to Household Air Pollution from Solid Cookfuel Use (Hap) in Iran, 1990–2013." *Environmental Research* **156**, (2017): 87-96.
- **Khaloo, Shokooh Sadat**, Shahla Mozaffari, Parisa Alimohammadi, Hadi Kargar and Joliet Ordookhanian. "Sensitive and Selective Determination of Riboflavin in Food and Pharmaceutical Samples Using Manganese (Iii) Tetraphenylporphyrin Modified Carbon Paste Electrode." *International Journal of Food Properties* **19**, no. 10 (2016): 2272-2283.
- **Shokooh Sadat Khaloo**, Milad Ahmadi Marzaleh, Maryam Kavousian, and Saeed Bahramzadeh Gendeshmin "Graphene oxide coated wad as a new sorbent in fixed bed column for the removal of crystal violet from contaminated water" *Separation Science and Technology*, (2016), 51(1), 1-10.
- **Shokooh Sadat Khaloo**, Shahla Mozaffari, Parisa Alimohammadi, Hadi Kargar & Joliet Ordookhanian "Sensitive and selective determination of riboflavin in food and pharmaceutical samples using manganese (III) tetraphenylporphyrin modified carbon paste electrode" *International Journal of Food Properties*, (2016) 19 (10), 2272-2283. DOI: 10.1080/10942912.2015.1130054
- **Shokooh Sadat Khaloo**, Shahla Mozaffari, Afsane Barekat, Fereshte Karimi, "Fabrication of a modified electrode based on multi-walled carbon nanotubes decorated with iron oxide nanoparticles for the determination of enrofloxacin" *Micro & Nano Letters*, (2015), 10(10), 561–566, DOI: 10.1049/mnl.2015.0123.
- **Shokooh Sadat Khaloo**, Homa Zolfaghari, Reza Gholamnia "Response surface methodology for optimization of 4- nitrophenol degradation by a heterogeneous Fentonlike reaction on nano-zero-valent iron" *Desalination and Water Treatment*, (2015) 56, 06-13. DOI: 10.1080/19443994.2014.959061 .
- **Shokooh Sadat Khaloo**, Shokoufeh Fattahi, "Enhancing decolorization of Eriochrome Blue Black R during nano-size zero-valent iron treatment using ultrasonic irradiation" *Desalination and Water Treatment*, (2014), 52(16-18), 3403-3410. DOI: 10.1080/19443994.2013 .801322.
- **Shokooh Sadat Khaloo**, Shahram Vosoughi, Reza Gholamnia, "Efficiency comparison of two types of almond shell in removal of mercury from aqueous solution" *Journal of Kermanshah University of Medical Sciences*, (2013), 17(3) 155-63.

- **Khaloo Sh** , Saadati Z, "Synthesis, characterization and antibacterial activity of silver nanoparticles". **Feyz, Journal of Kashan University of Medical Sciences, (2013), 17(3), 261-266.**
- **Shokooh Sadat Khaloo**, Marzieh Torabbeigi, Reza Khani Jazani, Masoumeh Douraghi, Zohreh Ghalavand, " Laboratory waste minimization by recovery of silver as nano-silver colloidal dispersion from waste silver chloride" **J Mater Cycles Waste Manag (2013) 15, 342-347.**
- Amir H. Matin, **Shokooh S. Khaloo**, Abbas Kbarzade, Mohammad Irahi, " Comparison of surface functional groups and metal uptake efficiency of rice husk harvested from different climatic zones" **Water Science and Technology (2012) 65:9, 1738-1744.**
- **Shokooh S. Khaloo**, Amir H. Matin, Sahar Sharifi , Masoumeh Fadaeinia, Shaghayegh Mirzadeh, Narges Kazempour, " Equilibrium, kinetic and thermodynamic studies of mercury adsorption on the almond shell" **Water Science and Technology (2012) 65:8 1341-49.**
- Ali, A. Ensafi, **Shokooh S. Khaloo**, T. Khayamian, "Simultaneous determination of trace amounts of vanadium and molybdenum in alloys and foodstuff using adsorptive cathodic stripping voltammetry" **J. of food science and Technology (2007) 43(3), 416-422.**
- **S.S. Khaloo**, A.A. Ensafi, T.Khayamian "Determination of bismuth and copper using adsorptive stripping voltammetry couple with continuous wavelet transform" **Talanta (2007) 71(1), 324-332.**
- Ling Zhang, **Shokooh s Khaloo**, Pavel Kuban, Peter C Hauser, "Analysis of electroplating baths by capillary electrophoresis with high voltage contactless conductivity detection" **Meas. Scie. Technol, (2006) 17, 3317-3322.**
- Andreas Wuersing, Pavel. Kuban, **Shokooh S. Khaloo**, Peter C. Hauser "Rapid Electrophoretic separations in short Capillaries using Contactless Conductivity Detection and a Coupling Sequential Injection Analysis manifold for hydrodynamic sample loading" **The Analyst (2006) 131, 944-949.**
- A.A. Ensafi, **S.S. Khaloo** "Determination of Trace Molybdenum by catalytic adsorptive Stripping Voltammetry" **Talanta (2005) 65, 781.**
- A.A. Ensafi, T. Khayamian, **S.S. Khaloo**," Application of adsorptive cathodic differential pulse stripping method for simultaneous determination of copper and molybdenum using pyrogallol red", **Analytical Chimica Acta, (2004) 505 205-212.**
- **S.S. Khaloo**, M.K. Amini, S. Tangestaninejad and R. Kia, "Voltammetric and Potentiometric Study of Cysteine at Cobalt (II) Phthaloyanine Modified Carbon-Paste Electrode", **Journal of the Iranian Chemical Society, (2004), 1(2), 128-135.**

- M. K. Amini, J. H. Khorasani, **S. S. Khaloo**, S. Tangestaninejad, "Cobalt (II) Salophen-Modified Carbon-Paste Electrode for Potentiometric and Voltammetric Determination of Cysteine", **Analytical Biochemistry**", (2003), **320**, 32-38.

Conference Presentations

- Synthesis and application of graphene-based magnetic nano-composite for adsorption removal of 4-nitrophenol: Optimization by response surface method. **World congress on Material Science and Engineering, 23-25 August 2018, Amsterdam. Netherlands.**
- Hydrothermal synthesis of magnetic MnFe₂O₄- graphene oxide composite and application for removal of methylene blue and toluidine blue from aqueous solution, **International Conference on Nanotechnology, Paris - France 2016 July 1-3.**
- *The Development of sensitive and selective riboflavin sensor based on a carbon paste electrode modified with multi wall carbon nanotube decorated with Fe₃O₄ nano particles.* **4th Symposium on sensor sciences 13-15 July 2015, Basel Switzerland.**
- *Simultaneous determination of trace amounts of vanadium and molybdenum in alloys and foodstuff using adsorptive cathodic stripping voltammetry.* **INTERACT 2006 air, Water & Earth, 24-28 September 2006, Western Australia.**
- *Application of Continuous Wavelet Transform for Resolving and Quantifying The Overlapped Voltammetric Signal.* **11th Asian Chemical Congress 24-26 August, 2005 Seoul, Korea**
- *"Sensitive Determination of Molybdenum by Catalytic Adsorptive Stripping Voltammetry"* **The Seventh Asian Conference on Analytical Sciences, Hong Kong, Baptist University, July. 28-31, 2004**
- *"Application of Adsorptive Cathodic Differential Pulse Stripping Method for Simultaneous Determination of Copper and Molybdenum using Pyrogallol red"*, **2nd National Seminar of chemistry and Environment, University of Isfahan, 27- 29 Jan 2004.**
- *Determination of Cysteine Using Carbon Paste Electrodes Modified With Cobalt Salophen and Cobalt Phthalocyanine,* **Tenth Iranian Seminar of Analytical Chemistry, Department of Chemistry, Sharif University of Technology, February 2001**

Experience

- Associate Professor, Faculty of Public Health and Safety, Shahid Beheshti University of Medical Sciences from 2014.
- Assistant Professor, Faculty of Health; Safety and Environment, Shahid Beheshti University of Medical Sciences 2008-2014.