CV

Personal details

Amir Hatamie (Hatami)

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RESEARCH INTERESTS

» Synthesis of Nanoparticles, Electrochemistry, Spectroscopy

» Electrocatalysis - Electrochemical and optical (bio) sensors

»Synthesis and application of different nanoparticles such as Au, Ag, Cu, (plasmonic NPs) PB, Iron Oxide, ZnO@ZnS NPs and ZnO nanorods. g-C_3N_4 nanosheets

» Fabrication new electrodes (Nano composite with MWCNT and thin film electrodes)

» Photocatalyst

Education

***Post doc: Sharif University of technology-Tehran-Iran 2016**

Synthesis and application of 2D and 3D nanostructures of carbon in electrochemical (bio) sensors and electrocatalyst

*** Sabbatical: Biosensors and Bioelectronics Centre,** *Linköping University*, Sweden,
with Prof. Anthony P. F. Turner, Dr. Valerio beni (2014)
Optical Biosensor/Lateral flow strip test (Au NPs/Aptamer sensor) for mercury detection.

Sabbatical:

*** Sabbatical: Nanotechnology research group**, *Linköping University*, Sweden,

Prof. Magnus Willander and Dr. Omer Nur **(**2014**)**
Synthesis thin layer of ZnO NRDs on glass and textile and applications as an electrochemical sensors, Synthesis and application of ZnO@ZnS NPs as a colorimetric sensor

***PhD-GPA: 17.75/20**
Chemistry: Optical and electrochemical sensors for drug analysis (Spectroscopy-Electrochemistry-Nanoparticles)

Supervisors: Dr. Behrooz Zargar and Prof. Hooshang Parham (2010– 2014)
Department of Chemistry Shahid Chamran University, Ahvaz, Iran

***Master's degree-GPA: 17.30/20** (2006-2008)
Analytical Chemistry- Department of Chemistry Shahid chamran unversity, Ahvaz, Iran.

***Bachelor's degree-GPA: 15.8/20 (2002-2005)**
Applied Chemistry-Department of Chemistry, Azad University, Iran

Employment history:

A) Teaching experiences (lecture):

"General chemistry lab", Faculty of science, *Shahid Chamran University*, Iran, Ahvaz, autumn 2012,

"Electrochemitry and Electrochemitry Lab", *Payame noor university*, Iran, Ahvaz, winter 2010 - 2014

"Analytical chemistry (I) and general chemistry", *Azad University, Abadan branch*, Iran, winter 2012.

B) National Iranian drilling company (NIDC):

As a technician drilling fluid in Iran-oil fields from 2013-2015.

C) Iranian National Standards Organization: As an expert to preparation and set standard test methods in different fields such as chemicals, pesticides and water treatment. 2008-2014.

D) Researcher in National Iranian drilling company-R&D section

F) Researcher in Shahid Chamran University

Honors and Merits

*I earned the highest score in entrance exam of Ph.D-2011 (the highest grade).

*I was selected as distinguished Ph. D student in Shahid Chamran University (2011-2012)

* I studied my PhD with full national scholarship.

***** I was selected as distinguished Ph. D student in Shahid Chamran University (2014-2015)

Publications

[18] Bottom-up synthesis of 2D carbon nitride nanosheets (g-C_3N_4) and use it as a green efficient electrode modifier for trace analysis lead ions by Anodic striping voltammetry,
In press.

[17] Zein bio-nanoparticles: A novel green nanopolymer as a dispersive solid phase extraction absorbent for separating and determining the trace amount of Azorubine in different food stuffs
B. Zargar, E. Biat, and ***A.Hatamie***
RSC Advances (2016) *in press.* (**I.F.: 3.3**).

[16] Evaluating magnetic nano-ferrofluid as a novel coagulant for surface water treatment
A. Hatamie *, H. Parham, B. Zargar, Z. Heidari*
Journal of Molecular Liquids 219 (2016) 694–702 (**I.F: 2.7**)

[15] Synthesis of zinc oxide nanorods on textile for novel investigation relevant to biosensing, photocatalytic and antibacterial applications,
A. Hatamie*,A. Khan****, ,*** *M. Golabi , A. Sumaira, A. P.F. Turner, W.C MAK, V. Beni, B. Zargar, O. Nur , M. Willander ,*
Langmuir (2015) 31 ,10913–1092. (**I.F: 3.9**)

[14] Fabrication and characterization of highly-ordered Zinc Oxide nanorods on gold/glass electrode, and its application as a voltammetric sensor, ***A. Hatamie*** *, A. Echresh , B. Zargar, O. Nur , M. Willander ,*
Electrochimica Acta (2015) (**Elsevier. I.F.: 4.7**)

[13] Electrochemical investigation and stripping voltammetric determination of captopril at CuO nanoparticles/multi wall carbon nanotube nanocomposite electrode in tablet and urine samples"
B. Zargar, H.Paraham, ***A. Hatamie,***
Analytical Methods 7(2015)1026 (**R.S.C, I.F.: 1.9**)

[12] Mercury thin film at glassy carbon electrode for adsorptive stripping voltammetric determination of captopril in pharmaceutical samples**,**
B. Zargar, H.Paraham, ***A. Hatamie,***
Analytical & Bioanalytical Electrochemistry (2015) (**I.F.: 0.80**)

[11] Hollow fiber liquid based microextraction of Nalidixic acid in urine samples using Aliquat 336 as a carrier combined with high-performance liquid chromatography
B. Zargar, H. Parham, ***A. Hatamie***
Journal of Chromatographic Science (2016) (**I.F.: 1.50**)

[10] Colorimetric Disposable Paper Coated with ZnO@ZnS Core−Shell Nanoparticles for Detection of Copper Ions in Aqueous Solutions.
*Sadollahkhani, A****.; Hatamie****, A.; Nur, O.; Willander, M.; Zargar, B.; Kazeminezhad, I.*
ACS Applied Materials & Interfaces 6(2014) 17694 (**I.F.: 7.1**).

[9] Copper nanoparticles: A new colorimetric probe for quick, naked-eye detection of sulfide ions in water samples, *A.Hatamie , B. Zargar , A. Jalali*,
Talanta 121(2014)234 (**Elsevier. I.F.: 4.0**)

[8] Prussian blue nanoparticles: a simple and fast optical sensor for colorimetric detection of hydralazine in pharmaceutical samples, *B. Zargar, A. Hatamie***,**
Analytical Methods 6 (2014) 5951 (**R.S.C, I.F.: 1.9**)

[7] Hollow fiber liquid based microextraction combined with high-performance liquidchromatography for the analysis of lidocaine in biological and pharmaceutical samples, *B. Zargar, A. Hatamie,*
Analytical Methods 6 (2014) 2506–2511. (**R.S.C, I.F.: 1.9**)

[6] A simple and fast colorimetric method for detection of Hydrazine in water samples based on formation of gold nanoparticles as a colorimetric probe, *B. Zargar, A. Hatamie*,
Sensors and Actuators B 182 (2013) 706 **(Elsevier. I.F.: 4.7)**

[5] Localized surface plasmon resonance of gold nanoparticles as colorimetric probes for determination of Isoniazid in pharmacological formulation, B. Zargar, A. Hatamie,
Spectrochim. Acta Part A, 106 (2013) 185 (**Elsevier. I.F.: 2.6**)

[4**]** Colorimetric determination of Resorcinol based on localized surface Plasmon resonance of silver nanoparticles
B. Zargar, A. Hatamie
Analyst 137 (2012) 5334 **(R.S.C, I.F.: 4.1)**

[3**]** Magnetic Solid-Phase Extraction of Rose Bengal Using Iron Oxide Nanoparticles Modified with Cetyltrimethylammonium Bromide**.**
H. Parham, B. Zargar, Z. Heidari, A. Hatamie,
J. Iran. Chem. Soc. 8 (2011) 9 (**Springer, I.F: 2.2)**

[2] Fast removal and recovery of Amaranth by iron oxide magnetic nanoparticles,
B. Zargar, H. Parham**,** A. Hatamie
Chemosphere,76(2009)554 (**Elsevier. IF: 3.7**)

[1] Modified iron oxide nanoparticles as solid phase extractor for spectrophotometric determination and separation of basic Fuchsin" B. Zargar, H. Parham**,** A. Hatamie,
Talanta 77 (2009) 1328 (**Elsevier. I.F.: 4.0**)

Published conference abstracts

1) B. Zargar, H. Parham, A. Hatamie, N. Saadati, *The use of Iron oxide magnetic nanoparticles (ferro fluid) as new coagulant for water and wastewater treatment,* 2nd International congress on Nanoscience & Nanotechnology,2008-university of Tabriz – Iran.

2) B. Zargar, H. Parham, A. Hatamie, *Fast removal and recovery of amaranth by iron oxide magnetic nanoparticles*, 2nd International congress on Nanoscience & Nanotechnology, 2008- university of Tabriz – Iran.
3) Z. Heidari, H. Parham, B. Zargar and A. Hatamie , *Magnetic solid-phase extraction of Rose Bengal with modified iron oxide nanoparticles,* 16th Iranian Seminar of Analytical chemistry , 2009, Bu-Ali Sina University Hamedan – Iran.
4) M. Rezazadeh , H. Parham, B. Zargar and A. Hatamie, *Fast removal and recovery of methylene blue by activated carbon modified magnetic iron oxide nanoparticles,* 16th Iranian Seminar of Analytical chemistry ,2009 Bu-Ali Sina University Hamedan– Iran.
5) B. Zargar and A. Hatamie, *Colorimetric determination of resorcinol based on localized surface Plasmon resonance of silver nanoparticles*, 2nd congress on nano drug ,jundishapur university of Ahvaz-2012– Iran
6) *Differential pulse anodic stripping voltammetry of Captopril at carbon paste electrode modified with MWCNT and CuO nanoparticles,* B. Zargar, H. Parham and A. Hatamie,
7) *Hollow fiber-based liquid–liquid–liquid microextraction combined with High-performance liquid-chromatography for the analysis of lidocaine in biological and pharmaceutical samples*, B. Zargar and A. Hatamie
8) *Hollow fiber-based liquid–liquid–liquid microextraction Nalidixic acid in urine sample with using Aliquat 336 as a carrier combined with HPLC*, B. Zargar, H. Parham, A. Hatamie
9) *Aligned Growth of ZnO nanorods on gold/glass electrode and application as a voltammetric sensor for Amoxicillin*, A. Hatamie ,A. Echresh, B. Zargar, O. Nur , M. Willander, 21nd congress of Analytical chemistry, Shahid Chamran University (2015) Ahwaz– Iran
10) A. Hatamie, B. Zargar , H. Ameri, A. Jalali, *Prussian blue nanoparticles as a new optical sensor for detection of 4-phenyl-thiosemicarbazide pesticide,* 21nd congress of Analytical chemistry, Shahid Chamran University (2015) Ahwaz– Iran
11) A. Khan, A. Hatamie , M. Golabi , A. Sumaira, A. P.F. Turner, W.C MAK, V. Beni, B. Zargar, O. Nur , M. Willander , *Synthesis of zinc oxide nanorods on textile for novel investigation relevant to biosensing, photocatalytic and antibacterial applications*, 21nd congress of Analytical chemistry, Shahid Chamran University (2015) Ahwaz– Iran

Book

Amir hatamie, ***Solutions manual for Electrochemistry*** .ISBN:978-964-975-167-2, Tehran – NOPARDAZAN press (2012), in Persian, *For master and undergraduate students*

Reviewer journal

Analytical methods *(Royal society chemistry)*
Spectrochem chem. Acta part A *(Elsevier)*
Anal. Chem. Acta *(Elsevier)*
Talanta*(Elsevier)*
Nanoscale *(Royal society chemistry)*
Sensor and actuators *(Elsevier)*

References:

1. Magnus Willander, Ph.D., Professor of *Nanotechnology*,
Department of Science and Technology, Linköping University, Sweden.
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2. A. Simchi, Ph.D., *Professor of Materials Science and Engineering and Nanomaterial.*
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5.Omer Nour, Ph.D., Professor of *Nanotechnology,*
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6. **Anthony Turner**, Ph.D., *Professor of Biology and Biosensors*.
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