



## Hoseinali Rafieepour

Associate Professor

College: Faculty of Chemistry

Department: Cell and Molecular Biology

### Employment Information

Faculty/Department	Position/Rank	Employment Type	Cooperation Type	Grade
(not set)	(not set)	Tenured	Full Time	18

### Papers in Conferences

1. Elaheh Mozayan et al. ,Design a cMWCNTFET-based biosensor via cytochrome c immobilization to detect low trace of hydrogen peroxide ,17th National and 2nd International Conference of Iranian Biophysical Chemistry ,September 6-7, 2022.
2. Zahra Abbasi et al. ,Authentication of Iranian honey samples: Physicochemical parameters investigation along with the electrochemical measurement of gallic acid by g-C<sub>3</sub>N<sub>4</sub>/AuNPs modified carbon paste electrode ,17th National and 2nd International Conference of Iranian Biophysical Chemistry ,September 6-7, 2022.
3. Zahra Abbasi et al. ,Electrochemical determination of gallic acid using a sensitive sensor based on g-C<sub>3</sub>N<sub>4</sub>/AuNPs modified carbon paste electrode ,17th National and 2nd International Conference of Iranian Biophysical Chemistry ,September 6-7, 2022.
4. Immobilization of glucose oxidase onto amino-functionalized carbon nanofibers for glucose biosensing ,17th National and 2nd International Conference of Iranian Biophysical Chemistry ,September 6-7, 2022.
5. Marziye Ghorbani , Elahe Mahmoodi , Khaledi , Hossain Ali Rafiee Pour ,Novel Detection of caffeic acid in honey using carbon paste electrode modified with copper (II) oxide (CuO) nanoparticles ,22nd National and 10th International Congress on Biology ,August 31- September2, 2022.
6. Zeinab Nabhan, Elahe Mahmoodi , Khaledi, Hossain , Ali Rafiee , Pour ,Novel electrochemical sensor based on NiZnFe<sub>2</sub>O<sub>4</sub>/CPE for measurement of p-coumaric acid in honey samples ,22nd National and 10th International Congress on Biology ,August 31- September 2, 2022.
7. . Hossain Ali Rafiee Pour, Hasan Flah Hosseini, Hamid Reza Jamshidi, Amir Arsalan Shakeri ,The effect of carob pods extract on the rat's testosterone hormone ,7th National Congress on Medicinal Plants ,May 12-14, 2018.
8. Hossain Ali Rafiee Pour, Nafiseh sharifi, Sedigheh falahi ,An electrochemical nanobiosensor for early detection of breast cancer biomarker miRNA-21, using methylene blue as redox indicator, graphene oxide and polyaniline ,The First International Personalized Medicine Congress of Iran ,February 25-27, 2018.
9. Behnaz Motamedi, Azar Baradaran, Mohammad , Reza Khosravi, Rafiee , Pour Hossain , Ali, Amjadi

- Elham ,Ki67 as a predictor marker in patients with triple negative breast cancer ,The 20th Annual Congress and the 3th International Congress of Pathology and Laboratory Medicine ,December 5-7, 2018.
10. Maryam Mansouri , Hossain Ali Rafiee Pour , Sedigheh Falahi ,Recent advances in AuNPs based nanomaterials for photodynamic therapy ,2nd International Congress on Biomedicine ,December 21-24, 2018.
11. Maryam Mansouri, Hossain Ali Rafiee Pour, Sedigheh Falahi ,Recent advances in AuNPs based nanomaterials for photodynamic therapy ,2nd International Congress on Biomedicine ,December 21-24, 2018.
12. Hossain Ali Rafiee Pour, Mohsen Behpour, Negin Nikzad ,Early cancer detection based on guanine oxidation consequent to the hybridization between miRNA-21 and it's inosine substitute capture probe ,The 2nd International Personalized Medicine Congress of Iran ,. January 13-15, 2018.
13. نفیسه شریفی، حسینعلی رفیعی پور، صدیقه فلاحی، کامران حیدریان، سنتز زیست سازگار نانوکامپوزیت گرافن اکسید احیاء شده/نانوذرات نقره و کاربرد در حسگر تشخیص هیدروژن پراکسید، اولین همایش سالانه شیمی و مهندسی شیمی ایران، کیش، ۲۰۱۷، ۶ ۱۰.
14. Hossain Ali Rafiee Pour, Nafiseh Sharifi, Sedigheh Falahi. An electrochemical nanobiosensor for early detection of breast cancer biomarker miRNA-21, using methylene blue as redox indicator, graphene oxide and polyaniline. The First International Personalized Medicine Congress of Iran. Tehran, ۲۰۱۷ ۲ ۲۵.
15. BOD reduction by bacterial strains isolated from rosewater industry wastewater, محمد گودرزی، حسینعلی رفیعی پور، فرشته جوکارکاشی، اولین همایش شیمی زیست فن اوری، تهران، ۲۰۱۶، ۶ ۱۲.
16. حسینعلی رفیعی پور، محسن مرادیان، رکسانه صیادی بروجنی، بیومواد استراتژیک: کولیمر کانژوگه ی زیست تخریب پذیر در عرصه پزشکی، دومین کنگره سراسری پیشرفت های مهندسی بافت و طب بازساختی ایران، تهران، ۲۰۱۵، ۱۱ ۷.
17. Masood Hamadani, Hossain Ali Rafiee Pour, Samaneh Katebi Koushali , Immobilization and bioelectrochemistry of cytochrome con nanoporous TiO<sub>2</sub> and ZnO films ,The 13th Conference on Biophysical Chemistry ,May 26-27, 2015.
18. Mohammad Goodarzi, Hossain Ali Rafiee Pour, Fereshteh Jookar Kashi, Azam Ghorbani, Ali Mohammadi , Isolation of microorganisms from rosewater industry wastewater ,The 16th International and Iranian Congress of Microbiology ,August 25-27, 2015.
19. Mohsen Behpour, Hossain Ali Rafiee Pour, Mahin Keshavarz ,Development immobilization of DNA onto a carbon nanotube modified electrode and characterization by electrochemical techniques ,The 11th Biennial Electrochemistry Seminar of Iran ,September 9-11, 2014.
20. Masood Hamadani, Hossain Ali Rafiee Pour, Samaneh Katebi Koushali ,Direct electrochemistry of cytochrome c on TiO<sub>2</sub>/Au nanocomposite modified electrode ,The 11th Biennial Electrochemistry Seminar of Iran ,September 9-11, 2014.
21. Hossain Ali Rafiee Pour, Masoumeh Firouzi, Rasoul Beheshtifar, Mahboubeh Nejadhosseini ,Catalase Immobilization onto Sonicationally-Functionalized Multiwalled Carbon Nanotubes ,The 11th Biennial Electrochemistry Seminar of Iran ,September 9-11, 2014.
22. Hossain Ali Rafiee Pour, Masood Hamadani, Marjan Badiei ,Direct electron transfer between cytochrome c and TiO<sub>2</sub>/Ag nanocomposite electrode ,The 11th Biennial Electrochemistry Seminar of Iran ,September 9-11, 2014.
23. H. Fahimitabar, Hossain Ali Rafiee Pour, L. Moradi ,Amination of multiwalled carbon nanotubes and investigation of its efficiency in glucose oxidase immobilization ,The 5th International Congress on Nanoscience & Nanotechnology (ICNN2014) ,October 22-24, 2014.
24. Fariba Dashtestani, Hedayatollah Ghourchian, Hossain Ali Rafiee Pour ,Interaction non-enzymatic electrochemical detection of superoxide anion based on gold nanoparticles ,The 10th Annual Electrochemistry Seminar of Iran ,November 26-27, 2014.
25. Fariba Dashtestani و سایر A novel superoxide dismutase mimic based on copper (II) complex. 1st Tabriz International Life Science Conference & 11th Iran Biophysical Chemistry Conference، تبریز، ۲۰۱۳، ۵ ۲۲.

26. S. M. Ghoreishi, Hossain Ali Rafiee Pour, H. Emadi, I. Etesami ,Glucose Oxidase immobilization on the modified substrate with nano-composite containing carboxyl functionalized carbon nanotube and cobaltoxide nanoparticles ,The 16th Iranian Chemistry Congress (16ICC) ,September 7-9, 2013.
27. Fariba Dashtestani, Hedayatollah Ghourchian, Hossain Ali Rafiee Pour, Khadijeh Eskandari ,Artificial superoxide dismutase activity of copper-cysteine to electrochemical detection of superoxide ,The First International & 11th Iran Biophysical Chemistry Conference ,June 13-15, 2012.
28. H. Faridnouri, H. Ghourchian, Hossain Ali Rafiee Pour ,Direct electrochemistry of chemically modified tyrosinase immobilized on carbon nanotube-ionic liquid composite ,2nd International Conference on Bio-sensing Technology,International Symposium on Bioelectrochemistry and Bioenergetics ,October 10-12,2011.
29. P. Rahimi, H. Ghourchian, S. Sajjadi, Hossain Ali Rafiee Pour ,Effect of different RTIL-CNT nano-composites on the electrochemistry and electrocatalysis of choline oxidase ,XXI International Symposium on Bioelectrochemistry and Bioenergetics ,May 8-10,2011.
30. H. Ghourchian, P. Rahimi, Hossain Ali Rafiee Pour ,An electrochemical biosensing system for direct electrochemistry of cytochrome c and quantification of superoxide radical ,The 9th Biennial Electrochemistry Seminar of Iran ,January 14-16, 2011.
31. Sharareh Sajjadi, Hedayatollah Ghourchian, Amir ,& Homayoon Keyhan, Hossain Ali Rafiee Pour, Parvaneh Rahimi ,Electrochemistry and electrocatalysis of choline oxidase based on Ionic-liquid/NH<sub>2</sub>-MWCNTs nano-composite ,The 61th Annual Meeting of the International Society of Electrochemistry ,September 26th-October 1st, 2010.
32. Atieh Motaharnejad, Hossain Ali Rafiee Pour, Mohsen Mohsennia ,Interaction between arsenic trioxide and human insulin in generation diabetes mellitus: Thermodynamic and kinetic studies ,The 6th Annual Seminar of Electrochemistry of Iran ,October 9-11, 2010.
33. P. Rahimi, Hossain Ali Rafiee Pour, H. Ghourchian, P. Norouzi, M.R. Ganjali ,Direct electrochemistry of cytochrome c immobilized in ionic liquid/hoc-MECNTs and its application for superoxide sensing ,The 3rd International Congress on Nanoscience and Nanotechnology ,November 9-11, 2010.
34. H. Faridnouri, Hossain Ali Rafiee pour, H. Ghourchian ,Direct electrochemistry of chemically modified Laccase immobilized on carbon nanotube-ionic liquid composite ,The 9th Iran Biophysical Chemistry Conferenc ,February 24-25 2010.
35. P. Rahimi, Hossain Ali Rafiee pour, H. Ghourchian, P. Norouzi, M.R. Ganjali ,A novel disposable functionalized-carbon nanotube/ionic liquid modified screen-printed biosensor for glucose detection ,The 9th Iran Biophysical Chemistry Conferenc ,February 24-25 2010.
36. . H. Tavakoli, M. Shourian, H. Ghourchian, Hossain Ali Rafiee Pour, M.M. Modarres Mosalla ,Detection and dosimetry of gamma ray through reduction of cytochrome C based on superoxide radical anion production ,The 9th Iran Biophysical Chemistry Conference ,February 24-25 2010.
37. Seyed Ahmad Dehdast, Hossain Ali Rafiee Pour, Mohammad Shabani, Hedayatollah Ghourchian ,Ethanol biosensor based on the alcohol dehydrogenase immobilized on carbon nanotubes adsorbed on methylene green nano-layer ,The 9th Iran Biophysical Chemistry Conference ,February 24-25 2010.
38. S. Sajjadi, Hossain Ali Rafiee Pour, H. Ghourchian, A.H. Keyhan ,Carbon nanotube-ionic liquid composite for choline biosensing ,Proceedings of 3rd IUMS conference on application of nanotechnology in medicine and biomedical sciences ,February 2010.
39. Seyed Ahmad Dehdast, Hossain Ali Rafiee Pour, Shabnam Vojudi Nobakht, Mohammad Shabani, Hedayatollah Ghourchian ,Fabrication a nanobiosensor based on alcohol dehydrogenase and carbon nanotubes for alcohol detection ,Proceedings of 3rd IUMS conference on application of nanotechnology in medicine and biomedical sciences ,February 2010.
40. Hossain Ali Rafiee Pour, Parvaneh Rahimi, Hedayatollah Ghourchian ,Sensitivity improvement for glucose biosensing based on the nano-composite of ionic liquid-amine functionalized-carbon nanotubes ,Proceedings of 3rd IUMS conference on application of nanotechnology in medicine and biomedical sciences ,February 2010.
41. F. Khodadadi, S.M. Hossainlipour, M. Soltanieh, H. Ghourchian, Hossain Ali Rafiee Pour ,Glucose

- biosensor based on DBD plasma functionalized multiwalled carbon nanotubes ,The 5th Analytical Electrochemistry Conference of Iran ,May 7-8, 2009.
42. P. Rahimi, Hossain Ali Rafiee Pour, H. Ghourchian, P. Norouzi, M.R. Ganjali ,Direct electrochemistry and electrocatalysis of catalase immobilized on RTIL/functionalized-MWCNTs film ,The 8th Biennial Electrochemistry Seminar of Iran ,July 14-16, 2009.
  43. F. Khodadadi, S.M. Hossainipour, M. Soltanieh, Hossain Ali Rafiee Pour, H. Ghourchian ,Dielectric barrier discharge plasma functionalized carbon nanotubes for glucose biosensing application ,The 8th Biennial Electrochemistry Seminar of Iran ,July 14-16, 2009.
  44. S. Sajjadi, Hossain Ali Rafiee Pour, P. Rahimi, H. Ghourchian, A. Keyhan ,Direct electrochemistry of choline oxidase at carbon nanotube-ionic liquid modified electrode ,The 8th Biennial Electrochemistry Seminar of Iran ,July 14-16, 2009.
  45. M. Shourian, Hossain Ali Rafiee Pour, H. Ghourchian, H. Tavakol ,A bioelectrochemical method for detection of ionizing ray sources ,The 8th Biennial Electrochemistry Seminar of Iran ,July 14-16, 2009.
  46. Hossain Ali Rafiee Pour, Leila Meskoub Haghighi, Mahdi Riazati Keshe, Hedayatollah Ghourchian ,The direct electron transfer of Glucose Oxidase based on magnetic carbon nanotubes ,The First Regional Symposium on Bioelectrochemistry ,October 13-15, 2008.
  47. Hossain Ali Rafiee Pour, Hasan Shafiey, Hedayatollah Ghourchian ,Cysteine role on electron transferring in Cu, Zn-superoxide dismutase ,The First Regional Symposium on Bioelectrochemistry ,October 13-15, 2008.
  48. Yahya Sefidbakht, Hossain Ali Rafiee Pour, Farzaneh Farivar, Khodadad Nazari, Hedayatollah Ghourchian, A. A. Moosavi Movahedi ,MP-11/NH<sub>2</sub>-FSM16 nanozyme as an artificial peroxidase; kinetic and voltammetric studies ,The First Regional Symposium on Bioelectrochemistry ,October 13-15, 2008.
  49. Sanaz Emami, Hossain Ali Rafiee Pour, Hedayatollah Ghourchian ,Cyclic voltammetry of cytochrome c on gold nanoparticles modified Au electrode in presence of dimethyl sulphoxide ,The 8th Iran Biophysical Chemistry Conference ,March 11-13, 2008.
  50. Bahareh Zahedi, Hossain Ali Rafiee Pour, Seyed Abbas Shojaosadati, Hedayatollah Ghourchian ,Application of functionalized-multiwall carbon nanotubes for detection of thiocholine ,The 8th Iran Biophysical Chemistry Conference ,March 11-13, 2008.
  51. Mohammadnabi Sarbolouki, Nahid Maleki, Hossain Ali Rafiee Pour ,New advancements in electrophoresis ,The 5th National Biotechnology Congress of Iran ,November 24-26, 2007.
  52. Fatemeh Amini Akbarabadi, Hossain Ali Rafiee Pour, Hedayatollah Ghourchian ,Detection of superoxide anion by gold enzyme electrode ,The 7th Biennial Electrochemistry Seminar of Iran (7 BESI) ,August 28-30, 2007.

## Papers in Journals

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1. Zahra Abbasi , Qazaani, Hossain , Ali Rafiee , Pour, Mostafa Shourian,Sensitive electrochemical sensor for gallic acid determination in honey based on g-C<sub>3</sub>N<sub>4</sub>/AuNPs modified carbon paste electrode,Journal of The Electrochemical Society,Vol. 171,2024 07 31.
2. Negin ebrahimi, Hossain , Ali Rafiee , Pour, Elahe Mahmoodi , Khaledi,Ferulic acid detection in honey using carbon paste electrode modified by C-C<sub>3</sub>N<sub>4</sub>/Li<sub>2</sub>CoMn<sub>3</sub>O<sub>8</sub> nanocomposite,Microchemical Journal,Vol. 203,2024 06 05.
3. Zeinab Nabhan Khomeis, Elahe Mahmoodi , Khaledi, Hossain , Ali Rafiee , Pour, Mohsen Farhadpour,Novel electrochemical sensor based on NiZnFe<sub>2</sub>O<sub>4</sub>/CPE for measurement of p-coumaric acid,Arabian Journal of Chemistry,Vol. 17,2023 11 23.
4. Determination of bortezomib and dasatinib anticancer drugs in real samples using an electrochemical sensor modified with new CuFe<sub>2</sub>O<sub>4</sub>/SmVO<sub>4</sub>/ionic liquid nanocomposite,Carbon Letters,Vol. 301,2023 11 06.
5. CNT-FET for sensitive hydrogen peroxide biosensing via immobilized Cytochrome c,Archives of Biochemistry and Biophysics,2023 08 01.

6. Azam Sadat Beheshtian et al., Malva sylvestris mediated synthesis of CuO NPs towards electrochemical determination of quercetin, *Optical and Quantum Electronics*, 2023 04 03.
7. Abbas Jafari et al., A new strategy to design label-free electrochemical biosensor for ultrasensitive diagnosis of CYFRA 21-1 as a biomarker for detection of non-small cell lung cancer, *Chemosphere*, Vol. 301, pp. 134636, 2022 04 18.
8. Sedigheh Falahi et al., Non-coding RNA-based biosensors for early detection of liver cancer, *Biomedicines*, Vol. 9, pp. 964, 2022 01 11.
9. One step immobilization of glucose oxidase on TiO<sub>2</sub> nanotubes towards glucose biosensing, *Microchemical Journal*, Vol. 170, pp. 106712, 2021 07 31.
10. آذین مشرف قهفرخی؛ حسینعلی رفیعی پور؛ کریم مهنام، مقایسه ساختار سه ایزوآنزیم گلوکوآمیلاز به منظور تعیین عوامل نشان‌دهنده پایداری گرمایی پروتئین‌ها با استفاده از شبیه‌سازی دینامیک مولکولی، زیست فناوری دانشگاه تربیت مدرس، مجلد ۱۱، شماره صفحات ۲۰۲۰-۲۹۷، ۳۰۹، ۲۰۲۰.
11. مطهره شهبازیان؛ حسینعلی رفیعی پور؛ صدیقه فلاحی، آشکارسازی پرتوهای یون ساز ساطع شده از چشمه های سزیم-۱۳۷ و کبالت-۶۰ با استفاده از حسگر الکتروشیمیایی آنیون سوپراکسید در محیط آبی، مجله سنجش و ایمنی پرتو، مجلد ۸، شماره صفحات ۳۵-۲۰۲، ۳۶، ۲۰۲۰.
12. پساب توسط باکتری های بومی جدا COD و BOD محمد گودرزی، حسینعلی رفیعی پور، فرشته جوکار کاشی، کاهش شده از پساب صنایع عرق گیری گیاهی، زیست فناوری تربیت مدرس، مجلد ۱۱، شماره ۱، شماره صفحات ۲۹-۲۰۲، ۳۵، ۱۴۰۳.
13. Behnaz Motamedi, Hossain , Ali Rafiee , Pour, Mohammad , Reza Khosravi, Amirhosein Kefayat, Azar Baradaran, Elham Amjadi, Parvin Goli, Prolactin receptor expression as a novel prognostic biomarker for triple negative breast cancer patients, *Annals of Diagnostic Pathology*, Vol. 46, 2020 03 13, JCR.
14. Hossain Ali Rafiee Pour, Mahboubeh Nejadhosseini, Masoumeh Firouz, Saeed Masoum, Catalase immobilization onto magnetic multiwalled carbon nanotubes: optimization of crucial parameters using response surface methodology, *New Journal of Chemistry*, Vol. 43, pp. 593-600, 2019.
15. Sheida Sarafraz, Hossain Ali Rafiee Pour, Maryam Khayatkashani, Asa Ebrahimi, Electrochemical determination of gallic acid in *Camellia sinensis* (L.) Kuntze, *Viola odorata* L., *Commiphora wightii* (Arn.) Bhandari, and *Vitex agnus-castus* L. by MWCNTs-COOH modified CPE, *Journal of Nanostructure*, Vol. 9, No. 2, pp. 384-395, 2019.
16. Zahra Sadat Aghamiri, Mohsen Mohsennia, Hossain Ali Rafiee Pour, Immobilization of cytochrome c on polyaniline/polypyrrole/ carboxylated multi-walled carbon nanotube/glassy carbon electrode: biosensor fabrication, *Journal of Solid State Electrochemistry*, Vol. 23, pp. 2233-2422, 2019.
17. Zahra Sadat Aghamiri, Mohsen Mohsennia, Hossain Ali Rafiee Pour, Fabrication and characterization of cytochrome c-immobilized polyaniline/ multi-walled carbon nanotube composite thin film layers for biosensor applications, *Thin Solid Films*, Vol. 660, pp. 484-492, 2018.
18. Zahra Sadat Aghamiri, Mohsen Mohsennia, Hossain Ali Rafiee Pour, Immobilization of cytochrome c and its application as electrochemical biosensors, *Talanta*, Vol. 176, pp. 195-207, 2017.
19. Mohsen Mohsennia, Atieh Motaharnejad, Hossain Ali Rafiee Pour, Marzieh Torabbeigi, Thermodynamic and kinetic studies of As<sub>2</sub>O<sub>3</sub> toxicological effects on human insulin in generation diabetes mellitus, *Russian Journal of Physical Chemistry A*, Vol. 91, No. 12, pp. 2475-2480, 2017.
20. Hossain , Ali Rafiee , Pour, Mohsen Behpour, Mahin Keshavarz, Direct DNA Immobilization onto a Carbon Nanotube Modified Electrode: Study on the Influence of pH and Ionic Strength, *Journal of Nanostructures*, Vol. 6, pp. 235-244, 2016 6 01, ISI ,ISC ,SID ,Inspec.
21. Hossain , Ali Rafiee , Pour, Masood Hamadani, Samaneh Katebi Koushali, Nanocrystalline TiO<sub>2</sub> films containing sulfur and gold: Synthesis, characterization and application to immobilize and direct electrochemistry of cytochrome c, *Applied Surface Science*, Vol. 363, pp. 604-612, 2016 2 01, ISI ,SCOPUS.
22. Hossain , Ali Rafiee , Pour, Mohsen Behpour, Mahin Keshavarz, A novel label-free electrochemical miRNA biosensor using methylene blue as redox indicator: application to breast cancer biomarker miRNA-21, *Biosensors and Bioelectronics*, Vol. 77, pp. 202-207, 2016 1 01, ISI ,SCOPUS ,PubMed.



23. Mahin Keshavarz, Mohsen Behpour, Hossain , Ali Rafiee , pour,Recent trends in electrochemical microRNA biosensors for early detection of cancer,RSC Advances,Vol. 5,pp. 35651–35660,2015 3 01,ISI ,SCOPUS ,PubMed.
24. Mohammad Reza Ramezani, Hossein Naderi ,& Manesh, Hossain Ali Rafiee Pour,Cytotoxicity assessment of gold nanoparticle-chitosan hydrogel nanocomposite as an efficient support for cell immobilization: Toward sensing application,Environmental Studies of Persian Gulf,Vol. 1,No. 2,pp. 126-134,2014 3 01,SID.
25. Mohammad Reza Ramezani, Hossein Naderi ,& Manesh, Hossain Ali Rafiee Pour,Cytotoxicity assessment of a gold nanoparticle-chitosan nanocomposite as an efficient support for cell immobilization: comparison with chitosan hydrogel and chitosan-gelatin,Biocell,Vol. 38,pp. 11-16,2014 07 13.
26. Fariba Dashtestani, Hedayatollah Ghourchian, Khadijeh Eskandari, Hossain Ali Rafiee Pour,A superoxide dismutase mimic nanocomposite for amperometric sensing of superoxide anions,Microchemica Acta,Vol. 182,pp. 1045–1053,2014.
27. Somayeh Karimi, Hedayatollah Ghourchian, Parvaneh Rahimi, Hossain , Ali Rafiee , Pour,A nano-composite based biosensor for cholesterol determination,Analytical Methods,Vol. 4,pp. 3225–3231,2012 8 01,ISI ,SCOPUS ,PubMed.
28. Sharareh Sajjadi, Hedayatollah Ghourchian, Hossain , Ali Rafiee , Pour, Parvaneh Rahimi,Accelerating the electron transfer of choline oxidase using ionic-liquid/NH<sub>2</sub>-MWCNTs nano-composite,Journal of The Iranian Chemical Society,Vol. 9,No. 2,pp. 111–119,2012 1 01,ISI ,SCOPUS ,ISC ,SID ,PubMed.
29. Mahboubeh Tasviri, Hedayatollah Ghourchian, Mohammad R. Gholami, Hossain Ali Rafiee Pour,Horseradish peroxidase immobilization on amine functionalized carbon nanotubes: direct electrochemistry and bioelectrocatalysis,Progress in Reaction Kinetics and Mechanism,Vol. 37,pp. 161–172,2012.
30. Mojtaba Falahati, Ali Akbar Saboury, Leila Ma'mani, Abbas Shafiee, Hossein Ali Rafiee Pour,The effect of functionalization of mesoporous silica nanoparticles on the interaction and stability of confined enzyme,International Journal of Biological Macromolecules,Vol. 50,pp. 1048-1054,2012.
31. Parvaneh Rahimi, Hedayatollah Ghourchian, Hossain Ali Rafiee Pour, Parviz Norouzi, Mohammad Reza Ganjali,A biocompatible nanocomposite for glucose sensing,International Journal of Electrochemistry,2011.
32. Mahboubeh Tasviri, Hossain Ali Rafiee Pour, Hedayatollah Ghourchian, Mohammad Reza Gholami,Amine functionalized TiO<sub>2</sub>-carbon nanotube composite: synthesis, characterization and application to glucose biosensing,Applied Nanoscience,Vol. 1,pp. 189-195,2011.
33. Abdollah Salimi , Abdollah Noorbakhsh, Hossain Ali Rafiee Pour, Hedayatollah Ghourchian,Direct voltammetry of copper, zinc-superoxide dismutase immobilized onto electrodeposited nickel oxide nanoparticles: fabrication of amperometric superoxide biosensor,Electroanalysis,Vol. 23,No. 3,pp. 683-691,2011.
34. Parvaneh Rahimi, Hedayatollah Ghourchian, Hossain Ali Rafiee Pour,Superoxide radical biosensor based on a nano-composite containing cytochrome c,Analyst,2011.
35. Hossain Ali Rafiee Pour, Hedayatollah Ghourchian, Khadijeh Eskandari,Cysteine function in superoxide dismutase direct electrochemistry and superoxide anion sensing,Analytical and Bioanalytical Electrochemistry,Vol. 3,No. 3,pp. 215-226,2011.
36. Mostafa Shourian , Hassan Tavakoli , Hedayatollah Ghourchian , Hossain Ali Rafiee Pour,Detection and dosimetry of gamma ray emitted from thallium-201 and technetium-99m based on chemiluminescence technique,Radiation Measurement,Vol. 45,pp. 906-910,2010.
37. S. A. Shojaosadati, F. Ganji, B. Zahedi, Hossain Ali Rafiee Pour, Hedayatollah Ghourchian,Effect of different cNT's oxidation methods on thiocholine detection by surfactant modified graphite electrodes,International Journal of Nanoscience and Nanotechnology,Vol. 6,No. 4,pp. 195-204,2010.
38. Mahboubeh Tasviri , Hossain Ali Rafiee Pour, Hedayatollah Ghourchian, Mohammad R.

- Gholami, Amine functionalized TiO<sub>2</sub> coated on carbon nanotube as a nanomaterial for direct electrochemistry of glucose oxidase and glucose biosensing, *Journal of Molecular Catalysis B: Enzymatic*, Vol. 68, pp. 206-210, 2010.
39. Seyed Ahmad Dehdast, Hedayatollah Ghourchian, Hossain Ali Rafiee Pour, Alcohol dehydrogenase immobilization on functionalized carbon nano-tubes modified electrode, *Journal of Paramedical Sciences*, Vol. 1, No. 3, pp. 2008-2496, 2010.
40. Hossain Ali Rafiee Pour, Abdollah Noorbakhsh, Abdollah Salimi, Hedayatollah Ghourchian, Sensitive superoxide biosensor based on silicon carbide nanoparticles, *Electroanalysis*, Vol. 22, No. 14, pp. 1599 – 1606, 2010.
41. Mostafa Shourian, Hedayatollah Ghourchian, Hossain Ali Rafiee Pour, Hassan Tavakoli, Dose rate determination of gamma rays emitted by thallium-201 and technetium- 99m using a modified horseradish peroxidase based biosensing system, *Journal of The Iranian Chemical Society*, Vol. 7, No. 4, pp. 900-907, 2010.
42. Hossain Ali Rafiee Pour, Hassan Shafiey, Hedayatollah Ghourchian, Electrochemistry of oriented cytochrome c monolayer on modified gold electrode and its in situ denaturation in organic/aqueous medium, *Analytical and Bioanalytical Electrochemistry*, Vol. 1, No. 3, pp. 126-141, 2009.
43. Parvaneh Rahimi, Hossain Ali Rafiee Pour, Hedayatollah Ghourchian, Parviz Norouzi, Mohammad Reza Ganjali, Ionic-liquid/NH<sub>2</sub>-MWCNTs as a highly sensitive nano-composite for catalase direct electrochemistry, *Biosensors and Bioelectronics*, Vol. 25, pp. 1301–1306, 2009.
44. Mohammad N. Sarbolouki Karim Mahnam and Hossain Ali Rafiee Pour, Determination of pore/protein size via electrophoresis and slit sieve model, *Electrophoresis*, Vol. 25, pp. 2907–2911, 2004.