

CURRICULUM VITAE

Name: Fatemeh Ghorbani Bidkorpheh
Birth data: 14 March 1980, Tehran, Iran
Academic degree: Pharm. D., Ph.D. in Pharmaceutics



Current position: Associate Professor in Pharmaceutics and Pharmaceutical Nanotechnology, School of Pharmacy, Shahid Beheshti University of Medical Sciences (SBMU), Tehran, Iran.

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EDUCATION

Ph.D. in Pharmaceutics, School of Pharmacy, Tehran University of Medical Sciences, Tehran, Iran (Top student: 18.33/20). Sep 2005- Aug2010
Supervisors: Prof. Rasoul Dinarvand and Prof. Saeed Shahrokhian
Thesis title: Design, construction and application of electrochemical sensors for the determination of some pharmaceutical drugs in bulk form, finished products and biological fluids

Pharm. D. Azad University of Pharmaceutical Sciences, Faculty of Pharmacy, Tehran, Iran (Top student: 18.72/20). Feb1999- Oct 2004
Supervisor: late Prof. Javad Farid
Thesis title: Preparation and evaluation of anion exchange resin in theophylline sustained release drug delivery system

Complementary courses

e-learning and virtual education courses, Virtual University of Medical Sciences, Iran (2016-2021)
Knowledge-based company establishment workshop, Shahid Beheshti University of Medical Sciences, Tehran, Iran (2015)
The principles and application of LC-Mass chromatography workshop, Zanjan University of Medical Sciences, Zanjan, Iran (2010)

TEACHING COURSES

- Pharmaceutics
- Physical Pharmacy
- Pharmaceutical Quality Control
- Pharmaceutical Polymers

RESEARCH INTERESTS AND METRICS

- **H-index: 17 (google scholar), 16 (Scopus)**
- **Citations: 1299 (google scholar), 1041 (Scopus)**
- Design and construction of electrochemical sensors and applications in pharmaceutical analysis
- Molecularly imprinted polymer synthesis in bulk and nano-sized and applications in separation, pharmaceutical analysis, sensor design and drug delivery systems
- Graphene oxide, Magnetic Nanoparticles, Chitosan and Nano Metal-Organic Frameworks (NMOF) synthesis and applications in separation, pharmaceutical analysis, sensor design and drug delivery systems and tissue engineering
- Microfluidics applications in pharmaceutical sciences
- Artificial Intelligence

HONORS AND AWARDS

- More than 20 grant awards from **Shahid Beheshti University of Medical Sciences**, 2013-present.
- **Three Elite Grant Awards** from **National Institute for Medical Research Development (NIMAD)**, 2018, 2019, and 2020.
- **Invited speaker** at national and international conferences.
- "Dr. **Kazemi Ashtiani**" Research Grant Award for **Young Assistant Professor** from **National Elites Foundation**, 2014.

- Elected as *Top Graduate of Education, Research and Innovation of National Elites Foundation*, Iran, 2012.
- Top student in Ph.D., 2010
- Award of the first duration of Iranian Traditional Medicine, 2006.
- Ranking first in the Ph.D. entrance exam, 2005.
- Top student of the year 2004 in Pharm. D. in Iran.
- Selected oral and poster presentations in Iranian Pharmacy Students Seminars (IPSS), 2004 and 2005.
- Top student of the university and 3rd student of Iran in the national board of pharmacy, 2001.

WORK EXPERIENCE

- **Associate Professor**, Department of Pharmaceutics and Pharmaceutical Nanotechnology, School of Pharmacy, Shahid Beheshti University of Medical Sciences (SBMU), Tehran, Iran, Nov 2022- present.
- **Assistant Professor**, Department of Pharmaceutics and Pharmaceutical Nanotechnology, School of Pharmacy, Shahid Beheshti University of Medical Sciences (SBMU), Tehran, Iran, May 2017- 2022.
- **Tenure-Track Assistant Professor**, Department of Pharmaceutics and Pharmaceutical Nanotechnology, School of Pharmacy, Shahid Beheshti University of Medical Sciences (SBMU), Tehran, Iran, June 2013- May 2017.
- **R&D Consultant, ADP Pharmex, Koeln, Germany.**
- R & D establishment and development in Simapajouhan Amirkabir start-up, Science and Technology Park, Amirkabir University of Technology, Tehran, Iran (2020-2022)
- **Scientific Secretary** of Technology and Innovation Committee in National Institute for Medical Research Development (NIMAD), June 2017-June 2019.
- **Virtual Education Office Manager**, Faculty of Pharmacy, SBMU, September 2016-present.
- **Education office manager**, Faculty of Pharmacy, SBMU, 2014- 2016.

- **Lecturer**, Nanotechnology and Pharmaceutics Departments, Islamic Azad University of Pharmaceutical Sciences, April 2012- June 2013.
- **Consultant** in Afachemie & Tehranchemie pharmaceutical companies, Nov 2011-Aug 2016.
- **Postdoc** in Börje Sellergren group in Dortmund University, Dortmund, Germany, Sep 2010- Sep2011.

Projects: 1-Water treatment by molecularly imprinted materials, WATERMIM European Project.

2- German/Italian cooperation project between the University of Lecce and TU-Dortmund on molecular imprinted magnetic and silica nanoparticles for recognition and sensing of serotonin involving the preparation of core-shell molecularly imprinted polymer via reversible addition-fragmentation chain transfer polymerization.

- **Lecturer** of Physical Pharmacy and Pharmaceutical Dosage Forms in Newaria Educational Institute, Tehran, Iran, 2006- 2013.
- **Teaching Assistant**, Dosage Forms and Cosmetics lab, Tehran University of Medical Sciences, 2005- 2006.
- **Researcher** in Daru Darman Pars pharmaceutical company, 2004.

MEMBERSHIPS

- Member of Iran's National Elites Foundation as Top Graduate of Education, Research and Innovation, 2012-present.
- Technology and Innovation Committee in National Institute for Medical Research Development (NIMAD), June 2017-present.
- International Society of Electrochemistry, March 2009-present.
- Medical Council, I.R. Iran, Sep 2005-present.
- Iranian Association of Pharmaceutical Scientists, Sep 2005-present.
- Referee member of Iran National Science Foundation, 2019-present.
- Regenerative Nanotechnology committee, Iranian Council for Development of Stem Cell Sciences and Technologies, Apr 2016-present.

- The Society for Molecular Imprinting

LANGUAGE SKILLS

Persian: Native

English: Fluent

German: Intermediate (B1, DSIT)

PUBLICATIONS

Journal Articles

- 1- Kashefi S, Mohammadi-Yeganeh S, Ghorbani-Bidkorpheh F, Shabani M, Koochaki A, Safarzadeh M, Hoseini MH. Anti-cancer effects of a chitosan based nanoformulation expressing miR-340 on 4T1 breast cancer cells. *Journal of Pharmaceutical Sciences*. 2023 Oct 6.
- 2- Zarei N, Moghimi HR, Asiaie S, Ghorbani-Bidkorpheh F, A Long-lasting Transdermal Silver Nanoparticle Loaded Microneedle Patch as a Platform for Sustained Drug Release with Antibacterial Effect, under revision, accepted in *Drug Delivery and Translational Research*.
- 3- Akhtari N, Ahmadi M, Kiani Doust Vaghe Y, Asadian E, Behzad S, Vatanpour H, Ghorbani-Bidkorpheh F *, Natural agents as wound-healing Promoters, accepted in *Inflammopharmacology*.
- 4- Ahmadi M, Khoramjouy M, Dadashzadeh S, Asadian E, Mosayebnia M, Geramifar P, Shahosseini S, Ghorbani-Bidkorpheh F, Pharmacokinetics and biodistribution studies of [99mTc]-Labeled ZIF-8 nanoparticles to pave the way for image-guided drug delivery and theranostics, *Journal of Drug Delivery Science and Technology*, Volume 81, 2023,104249, ISSN 1773-2247, <https://doi.org/10.1016/j.jddst.2023.104249>. [Citations](#)
- 5- Hanif Afsharara, Elham Asadian, Bahar Mostafiz, Kamran Banan, Sara Arjomand Bigdeli, Dara Hatamabadi, Azadeh Keshavarz, Chaudhery Mustansar Hussain, Rüstem Keçili, Fatemeh Ghorbani-Bidkorpheh, Molecularly imprinted polymer-modified carbon paste electrodes (MIP-CPE): A review on sensitive electrochemical sensors for pharmaceutical determinations, *TrAC Trends in Analytical Chemistry*, Volume 160, 2023, 116949, ISSN 0165-9936, <https://doi.org/10.1016/j.trac.2023.116949>. [Citations](#)
- 6- Huang T, Wang G, Shahbazi MA, Bai Y, Zhang J, Feng G, Asadian E, Ghorbani-Bidkorpheh F, Yang Z, Li Y, Huo Q. Surface Decoration of Peptide Nanoparticles Enables Efficient Therapy toward Osteoporosis and Diabetes. *Advanced Functional Materials*. 2023 Jan;33(2):2210627.
- 7- Movahedi S, Bahramian F and Ghorbani-Bidkorpheh F, "An experimental and numerical study of microfluidic preparation of chitosan nanoparticle," *2022 29th National and 7th International*

- Iranian Conference on Biomedical Engineering (ICBME)*, 2022, 261-264, doi: 10.1109/ICBME57741.2022.10052866.
- 8- Masoudifar R, Pouyanfar N, Landi B, Ahmadi M, Ghorbani-Bidkorbeh F, Elham Asadian, Metal-Organic Frameworks as Active Targeting Delivery Systems, *Applied Materials Today*, 2022. [Volume 29](#), December 2022, 101646. [Citations](#)
 - 9- Yoosefi S, Esfandyari-Manesh M, Ghorbani-Bidkorbeh F, Ahmadi M, Moraffah F, Dinarvand R. Novel biodegradable molecularly imprinted polymer nanoparticles for drug delivery of methotrexate anti-cancer; synthesis, characterization and cellular studies. *DARU Journal of Pharmaceutical Sciences*. 2022 Sep 10:1-4. <https://doi.org/10.1007/s40199-022-00447-7> [Citations](#)
 - 10- Ahmadi M, Ebrahimnia M, Shahbazi MA, Keçili R, Ghorbani-Bidkorbeh F. Microporous metal–organic frameworks: Synthesis and applications. *Journal of Industrial and Engineering Chemistry*. 2022;115:1-11. [Citations](#)
 - 11- Siavashy S, Soltani M, Ahmadi M, Landi B, Mehmanparast H, Ghorbani-Bidkorbeh F, A Comprehensive Review of One Decade of Microfluidic Platforms Applications in Synthesis of Enhanced Carriers Utilized in Controlled Drug Delivery, *Advanced Materials Technologies*, 2022, 2101615.
 - 12- Pouyanfar N, Harofte SZ, Soltani M, Siavashy S, Asadian E, Ghorbani-Bidkorbeh F, Keçili R, Hussain CM. Artificial intelligence-based microfluidic platforms for the sensitive detection of environmental pollutants: Recent advances and prospects. *Trends in Environmental Analytical Chemistry*. 2022 Mar 26:e00160. [Citations](#)
 - 13- Safarzadeh M, Mohammadi-Yeganeh S, Ghorbani-Bidkorbeh F, Hoseini MH. Chitosan based nanoformulation expressing miR-155 as a promising adjuvant to enhance Th1-biased immune responses. *Life Sciences*. 2022 May 15;297:120459. [Citations](#)
 - 14- Banan K, Ghorbani-Bidkorbeh F, Afsharara H, Hatamabadi D, Landi B, Keçili R, Sellergren B. Nano-sized magnetic core-shell and bulk molecularly imprinted polymers for selective extraction of amiodarone from human plasma. *Analytica Chimica Acta*. 2022 Jan 28:339548. [Citations](#)
 - 15- Banan K, Hatamabadi D, Afsharara H, Mostafiz B, Sadeghi H, Rashidi S, Beirami AD, Shahbazi MA, Keçili R, Hussain CM, Ghorbani-Bidkorbeh F. MIP-based extraction techniques for the determination of antibiotic residues in edible meat samples: Design, performance & recent developments. *Trends in Food Science & Technology*. 2022 Jan 1;119:164-78. [Citations](#)
 - 16- Mostafiz B, Bigdeli SA, Banan K, Afsharara H, Hatamabadi D, Mousavi P, Hussain CM, Keçili R, Ghorbani-Bidkorbeh F. Molecularly imprinted polymer-carbon paste electrode (MIP-CPE)-based sensors for the sensitive detection of organic and inorganic environmental pollutants: A review. *Trends in Environmental Analytical Chemistry*. 2021 Dec 1;32:e00144. [Citations](#)
 - 17- Agrawal A, Keçili R, Ghorbani-Bidkorbeh F, Hussain CM. Green miniaturized technologies in analytical and bioanalytical chemistry. *TrAC Trends in Analytical Chemistry*. 2021 Oct 1;143:116383. [Citations](#)

- 18- Keçili R, Ghorbani-Bidkorpbeh F, Dolak I, Canpolat G, Karabörk M, Hussain CM. Functionalized magnetic nanoparticles as powerful sorbents and stationary phases for the extraction and chromatographic applications. *TrAC Trends in Analytical Chemistry*. 2021 Oct 1;143:116380. [Citations](#)
- 19- Siavashy S, Soltani M, Ghorbani-Bidkorpbeh F, Fallah N, Farnam G, Mortazavi SA, Shirazi FH, Tehrani MH, Hamedy MH. Microfluidic platform for synthesis and optimization of chitosan-coated magnetic nanoparticles in cisplatin delivery. *Carbohydrate Polymers*. 2021 Aug 1;265:118027. [Citations](#)
- 20- Ahmadi M, Ayyoubzadeh SM, Ghorbani-Bidkorpbeh F, Shahhosseini S, Dadashzadeh S, Asadian E, Mosayebnia M, Siavashy S. An investigation of affecting factors on MOF characteristics for biomedical applications: A systematic review. *Heliyon*. 2021 Apr 1;7(4):e06914. [Citations](#)
- 21- Ahmadi M, Siavashy S, Ayyoubzadeh SM, Kecili R, Ghorbani-Bidkorpbeh F. Controllable Synthesis of Polymeric Micelles by Microfluidic Platforms for Biomedical Applications: A Systematic Review. *Iranian Journal of Pharmaceutical Research: IJPR*. 2021;20(2):229. [Citations](#)
- 22- Raeisi M, Hashemi M, Aminzare M, Ghorbani Bidkorpbeh F, Ebrahimi M, Jannat B, Tepe B, Noori SM. Effects of sodium alginate and chitosan coating combined with three different essential oils on microbial and chemical attributes of rainbow trout fillets. *Journal of Aquatic Food Product Technology*. 2020 Mar 15;29(3):253-63. [Citations](#)
- 23- Hatamabadi D, Mostafiz B, Beirami AD, Banan K, Moghaddam NS, Afsharara H, Keçili R, Ghorbani-Bidkorpbeh F. Are molecularly imprinted polymers (MIPs) beneficial in detection and determination of mycotoxins in cereal samples?. *Iranian Journal of Pharmaceutical Research: IJPR*. 2020;19(4):1. [Citations](#)
- 24- Chimerad MR, Asiaei SA, Moghadasi H, Ghorbani-Bidkorpbeh F. Empirical study of Geometrical and Fluidic Parameters on Size of Droplets in Microfluidic Devices with Flow-Focusing Confinement. *Journal of Mechanical Engineering*. 2020 Jan 1;50(3):92. [Citations](#)
- 25- Karimi A, Erfan M, Mortazavi SA, Ghorbani-Bidkorpbeh F, Landi B, Kobarfard F, H Shirazi F. The Photothermal Effect of Targeted Methotrexate-Functionalized Multi-Walled Carbon Nanotubes on MCF7 Cells. *Iranian Journal of Pharmaceutical Research*. 2019 Dec 1;18(Special Issue):221-36. [Citations](#)
- 26- Asiaei S, Fakhari S, Pishbin E, Ghorbani-Bidkorpbeh F, Eghbal M, Navidbakhsh M. Demonstration of an efficient, compact and precise pumping method by centrifugal inertia for lab on disk platforms. *Journal of Micromechanics and Microengineering*. 2019 May 13;29(7):075001. [Citations](#)
- 27- Raeisi M, Ghorbani Bidkorpbeh F, Hashemi M, Tepe B, Moghaddam Z, Aman Mohammadi M, Noori SM. Chemical composition and antibacterial and antioxidant properties of essential oils of *Zataria multiflora*, *Artemisia deracunculus* and *Mentha piperita*. *Medical Laboratory Journal*. 2019 Mar 10;13(2):1-7. [Citations](#)

- 28- Ghalkhani M, Ghorbani-Bidkorpbeh F. Development of Carbon Nanostructured Based Electrochemical Sensors for Pharmaceutical Analysis. Iranian Journal of Pharmaceutical Research: IJPR. 2019;18(2):658. [Citations](#)
- 29- Ghalkhani M, Ghelichkhania F, Ghorbani-Bidkorpbeh F. Study and optimization of the necessary conditions for the sensitive determination of the lead ion by a modified carbon paste electrode in environmental water samples. Iranian journal of pharmaceutical research: IJPR. 2018;17(Suppl2):44. [Citations](#)
- 30- Karimi A, Erfan M, Mortazavi SA, Ghorbani-Bidkorpbeh F, Kobarfard F, Shirazi FH. Functionalisation of carbon nanotubes by methotrexate and study of synchronous photothermal effect of carbon nanotube and anticancer drug on cancer cell death. IET nanobiotechnology. 2019 Aug 29;13(1):52-7. [Citations](#)
- 31- Soroush H, Ghorbani-Bidkorpbeh F, Mortazavi SA, Mehramizi A. Formulation optimization and assessment of dexamethasone orally disintegrating tablets using Box-Behnken design. Iranian Journal of Pharmaceutical Research: IJPR. 2018;17(4):1150-1163. [Citations](#)
- 32- Fallah N, Siavashy S, Ghaemian N, Bahramian F, Ghorbani-Bidkorpbeh F. Peptide and protein interaction prediction and intervention with computational methods. Trends in Peptide and Protein Sciences. 2017 Jan 1;2(1):8-14. [Citations](#)
- 33- Asadian E, Shahrokhian S, Zad AI, Ghorbani-Bidkorpbeh F. Glassy carbon electrode modified with 3D graphene–carbon nanotube network for sensitive electrochemical determination of methotrexate, Sensors and Actuators B, 2017, 239 617–627. [Citations](#)
- 34- Pashaei Y, Ghorbani-Bidkorpbeh F, Shekarchi M. Superparamagnetic graphene oxide-based dispersive-solid phase extraction for preconcentration and determination of tamsulosin hydrochloride in human plasma by high-performance liquid chromatography-ultraviolet detection. Journal of Chromatography A. 2017 May 26; 1499:21-9. [Citations](#)
- 35- Ghorbani-Bidkorpbeh F. Molecular Imprinting of Peptides and Proteins. Trends in Peptide and Protein Sciences. 2017;1(3):99-108. [Citations](#)
- 36- Chimerad Mohammadreza, Pishbin Esmail, Asiaei Sasan, Ghorbani Bidkorpbeh, Fatemeh Eghbal Manochehr, The Effect of Geometrical and Fluid Kinematic Parameters of a Microfluidic Platform on the Droplet Generation, 2017, IEEE 24th National and 2nd International Iranian Conference on Biomedical Engineering (ICBME).
- 37- Shahrokhian S, Ghalkhani M, Bayat M, Ghorbani-Bidkorpbeh F. Voltammetric behavior and determination of trace amounts of omeprazole using an edge-plane pyrolytic graphite electrode. Iranian Journal of Pharmaceutical Research, 2015; 14 (2), 465-471. [Citations](#)
- 38- Jafariazar Z, Jamalnia N, Ghorbani-Bidkorpbeh F, Mortazavi A, Design and Evaluation of Ocular Controlled Delivery System for Diclofenac Sodium, Iranian Journal of Pharmaceutical Research 2015; 14, 23-31. [Citations](#)
- 39- Ghorbani-Bidkorpbeh F, Electrochemical Sensors and Biosensors Represent Very Promising Tools in Pharmaceutical Sciences, Iranian Journal of Pharmaceutical Research, 2015; 14 (3), 663-664. [Citations](#)

- 40- Picca R A, Malitesta C, Mohammadi R, Ghorbani F, and Sellergren B, Novel Format of Molecularly Imprinted Polymers for the Development of Electrochemical Sensors, chapter 29 in *Sensors*, Lecture Notes in Electrical Engineering, Springer, 2014; 162, 165-169. [Citations](#)
- 41- Shahrokhian S, Ghorbani-Bidkorbeh F, Mohammadi A, Dinarvand R, Electrochemical study of Mercaptopourine using carbon paste electrode modified with CoSalophen complex and its application in pharmaceutical and clinical preparations, *J of Solid State Electrochemistry*, 2012; 16 (4) 1643-1650. [Citations](#)
- 42- Ghorbani-Bidkorbeh F, Shahrokhian S, Mohammadi A, Dinarvand R, Preparation of a Naltrexone HCl potentiometric sensor and its application to pharmaceutical analysis and drug determinations in biological fluids, *J of Food and Drug Analysis*, 2011; 19(4), 445-451. [Citations](#)
- 43- Ghorbani-Bidkorbeh F, Shahrokhian S, Mohammadi A, Dinarvand R, Simultaneous determination of acetaminophen and tramadol in pharmaceutical and clinical preparations using glassy carbon electrode modified with carbon nanoparticles, *Electrochimica Acta*, 2010; 55 (8) 2752-2759. [Citations](#)
- 44- Ghorbani-Bidkorbeh F, Shahrokhian S, Mohammadi A, Dinarvand R, Electrochemical determination of naltrexone on the surface of glassy carbon electrode modified with Nafion-doped carbon nanoparticles: application to determinations in pharmaceutical and clinical preparations, *Journal of Electroanalytical Chemistry*, 2010; 638, 212–217 (Chosen as top 25 hottest articles in Jan to March 2010 in Sciencedirect). [Citations](#)
- 45- Ghalkhani M., Shahrokhian S., and Ghorbani-Bidkorbeh F., Voltammetric studies of sumatriptan on the surface of pyrolytic graphite electrode modified with multi-walled carbon nanotubes decorated with silver nanoparticles, *Talanta*, 2009; **80(1)**, 31-38. [Citations](#)
- 46- Mohammadi A, Rezanour N, Dogahesh MA, Bidkorbeh FG, Hashem M, Walker RB. A stability-indicating high-performance liquid chromatographic (HPLC) assay for the simultaneous determination of atorvastatin and amlodipine in commercial tablets. *Journal of chromatography B*. 2007 Feb 1;846(1-2):215-21. [Citations](#)

Manuscripts Under Review

- 1- Bahramian F, Movahedi S, Siavashy S, Asadian E, Kecili R, CM Hussain, Ghorbani-Bidkorbeh F, Artificial Intelligence-Based Microfluidic Devices for Analytical and Bioanalytical Applications, *TrAC Trends in Analytical Chemistry*.
- 2- Landi B, Ghorbani-Bidkorbeh F, Kamran Banan, Kobarfard F, Synthesis and Characterization of Molecularly Imprinted nanoparticles for efficient, rapid and selective Extraction and Separation of Zolpidem, *Microchimica Acta*.
- 3- Ayyoubzadeh SM, Ahmadi M, Ghorbani-Bidkorbeh F, Toxicity prediction of nanoparticles using data mining approaches, *Artificial Intelligence In Medicine*.

- 4- Movahedi S, Bahramian F, Pouyanfar N, Masoudifar R, Ahmadi M, Ghalkhani M, Mustansar Hussain C, Keçili R, Ghorbani-Bidkorpheh F, Next-Generation Microfluidics based on Artificial Intelligence: Design, Fabrication, and Applications for Food and Biological samples. Trends in food science and technology.
- 5- Pouyanfar N, Ahmadi M, Ayyoubzadeh SM, Ghorbani-Bidkorpheh F, Prediction of MOF properties using machine learning approaches. Physical Chemistry Chemical Physics.
- 6- Marvi F, Jafari K, Shahabadi M, Tabar zad M, Ghorbani-Bidkorpheh F, Ultrasensitive detection of target vital biomolecules based on a universal optical BioMEMS platform for Point of Care Testing - Digoxin identification and measurement as a case study, Biosensors, and Bioelectronics.
- 7- Afshara H, Banan K, Shinde S, Ghorbani-Bidkorpheh F, Separation and Purification of Active Pharmaceutical Ingredients from Degradation Products in Pharmaceutical Dosage Forms by Molecularly Imprinted Polymers, Talanta.
- 8- Banan K, Niknam S, Adabi M, Ghalkhani M, Ghorbani-Bidkorpheh F, Design, construction, and evaluation of molecularly imprinted electrochemical sensor for amiodarone determination, Microchemical Journal.
- 9- Norouzi M, Seyyed Tabaei SJ, Niyayati M, Ghorbani-Bidkorpheh F, Rosuvastatin - Loaded Chitosan Nanoparticles on Acute Toxoplasmosis, Frontiers in Immunology.
- 11- Elham Asadian, Fatemeh Ghorbani-Bidkorpheh, Samin Abbaszadeh, Saman Rezaei, Bo Xiao, Hélder Almeida Santos, Mohammad-Ali Shahbazi, Hijacking Plant Skeletons for Biomedical Applications, CHEMICAL SOCIETY REVIEWS (IF 60.615), proposal accepted. Under preparation.

Book chapters

- 1- Ghorbani-Bidkorpheh F, Masoumi N, Tabar zad M, Hosseinabadi T, Akhtari N, Functionalized Phytosomes For Cancer Therapy in "Functionalized Nanomaterials for Cancer Research: Applications in Treatments, Tools and Devices", Elsevier, to be published in 2023.
- 2- Banan K, Ghorbani-Bidkorpheh F, Mostafiz B, Keçili R, Hussain CM, Peltola E, Green MIPs as powerful sorbents for the detection and determination of pharmaceuticals in "Green Imprinted Materials: From Design to Environmental and Food Applications", Elsevier, to be published in 2023.
- 3- Mostafiz B, Banan K, Ghorbani-Bidkorpheh F, Keçili R, Hussain CM, Peltola E, Electrochemical sensors based on Green MIPs in "Green Imprinted Materials: From Design to Environmental and Food Applications", Elsevier, to be published in 2023.
- 4- Ahmadi M, Borhan A, Ghorbani-Bidkorpheh F, Sefat F, Shahbazi MA, Nano-targeted drug delivery approaches for bacterial infections in "Emerging Nanomaterials and Nano-based Drug Delivery Approaches to Combat Antimicrobial Resistance", 2022 (pp. 139-178), Elsevier.

- 5- Tabarzad M, Mohit E, Ghorbani-Bidkorpbeh F, Nano-vaccines delivery approaches against infectious diseases in "Emerging Nanomaterials and Nano-based Drug Delivery Approaches to Combat Antimicrobial Resistance", 2022 (pp. 425-484), Elsevier.
- 6- Asadian E, Masoudifar R, Pouyanfar N, Ghorbani-Bidkorpbeh F, Nanotechnology-based therapies for skin wound regeneration in "Emerging Nanomaterials and Nano-based Drug Delivery Approaches to Combat Antimicrobial Resistance", 2022 (pp. 485-530), Elsevier.
- 7- Hussain CM, Dolak İ, Ghorbani-Bidkorpbeh F, Keçili R. Smartphone: A new perspective in analysis. In Smartphone-Based Detection Devices 2021 Jan 1 (pp. 1-18). Elsevier.
- 8- Keçili R, Ghorbani-Bidkorpbeh F, Dolak İ, Canpolat G, Hussain CM. Smartphone-based optical and electrochemical sensing. In Smartphone-Based Detection Devices 2021 Jan 1 (pp. 19-36). Elsevier.
- 9- Keçili R, Ghorbani-Bidkorpbeh F, Altıntaş A, Hussain CM. Future of smartphone-based analysis. In Smartphone-Based Detection Devices 2021 Jan 1 (pp. 417-430). Elsevier.
- 10- Asadian E, Ahmadi M, Keçili R, Ghorbani-Bidkorpbeh F. Emerging Metal-Organic Framework Nanomaterials for Cancer Theranostics. In Cancer Nanotheranostics 2021 (pp. 231-274). Springer, Cham.
- 11- Tabarzad M, Ghorbani-Bidkorpbeh F, Hosseinabadi T. Dendrimers as antiinflammatory prodrugs. In Dendrimer-Based Nanotherapeutics 2021 Jan 1 (pp. 417-434). Academic Press.
- 12- M Tabarzad, F Ghorbani-Bidkorpbeh, Dendrimers formulations to enhance skin drug delivery in Dendrimer-Based Nanotherapeutics, 2021 Jan 1 (pp. 399-416). Academic Press.
- 13- Sümbelli Y, Keçili R, Ghorbani-Bidkorpbeh F, Hussain CM. Lab-on-chip for chromatographic techniques. In Handbook on Miniaturization in Analytical Chemistry 2020 Jan 1 (pp. 129-137). Elsevier
- 14- Ünlüer ÖB, Ghorbani-Bidkorpbeh F, Keçili R, Hussain CM. Future of the modern age of analytical chemistry: Nanominiaturization. In Handbook on Miniaturization in Analytical Chemistry 2020 Jan 1 (pp. 277-296). Elsevier.
- 15- Keçili R, Ghorbani-Bidkorpbeh F, Dolak İ, Hussain CM. Era of nano-lab-on-a-chip (LOC) technology. In Handbook on Miniaturization in Analytical Chemistry 2020 Jan 1 (pp. 1-17). Elsevier.
- 16- Tabarzad M, Ghorbani-Bidkorpbeh F, Hosseinabadi T. Improved Silymarin Characteristics for Clinical Applications by Novel Drug Delivery Systems. Novel Drug Delivery Systems for Phytoconstituents. 2019 Jul 23:195.

Presentations

- 1- Ayyoubzadeh SM, Ahmadi M, Ghorbani Bidkorpbeh F, Prediction of Nanoparticle Toxicity Using Machine Learning, International Congress of Artificial Intelligence in Medical Sciences, AIMS2023, Kish, Iran
- 2- Ghazizadeh Y, Davarikia K, Nouri A, Afshar H, Ayoubzadeh SM, Ahmadi M, Ghorbani Bidkorpbeh F, Integration of artificial intelligence and microfluidics for disease diagnosis: a systematic review, International Congress of Artificial Intelligence in Medical Sciences, AIMS2023, Kish, Iran

- 3- Ghorbani-Bidkorpheh F, **Keynote Speaker** in Basic Sciences for Health Promotion, Lab on a Chip and Organ on a Chip, 2022.
- 4- Masoudifar R, Asadian E, Ahmadi M, Shahbazi MA, Shahhosseini S, Ghorbani-Bidkorpheh F, Synthesis and Characterization of Hyaluronic Acid- Functionalized pH-Sensitive MOF (ZIF-8) for Delivery of Methotrexate in Rheumatoid Arthritis, International Pharmacy Acta 2023. (Best presentation)
- 5- Akhtari N, Ghorbani Bidkorpheh F, Vatanpour H, Formulation and Accelerated Stability Study of a Vanishing Cream Containing Propolis Extract, International Pharmacy Acta 2023.
- 6- Poyanfar N, Asadian E, Ahmadi M, Shahbazi MA, Shahhosseini S, Ghorbani-Bidkorpheh F, Synthesis and Characterization of a pH-Responsive Nanoparticle Coated with Hyaluronic Acid for Methotrexate Delivery in Rheumatoid Arthritis, International Pharmacy Acta 2023.
- 7- Shakeri N, Ghorbani Bidkorpheh F, Houshdar Tehrani MH, Shahhosseini S, Ghasemi P, Design, synthesis, and characterization of carnosine-conjugated Paclitaxel with a potential enhancement of paclitaxel efficacy on brain tumors, 5th International Congress of Pharmacy updates 2022, Feb 2022, Tehran, Iran.
- 8- Anvari Z, Ghorbani Bidkorpheh, Moghimi HR, Preparation of a protectant sunscreen against environmental pollution, 5th International Congress of Pharmacy updates 2022, Feb 2022, Tehran, Iran.
- 9- Sharafi Tafreshi Moghadam N, Mortazavi SA, Ghorbani Bidkorpheh F, Mahboubi A, Preparation and physicochemical evaluation of cosmeceutical stick formulation containing Salicylic acid for acne treatment, 5th International Congress of Pharmacy updates 2022, Feb 2022, Tehran, Iran.
- 10- Ahmadi M, Ghorbani-Bidkorpheh F, Shahhosseini S, Dadashzadeh S, Asadian E, Mosayebnia M, Radiolabeling of metal-organic frameworks (MOFs) with technetium-99m, 5th International Congress of Pharmacy updates 2022, Feb 2022, Tehran, Iran.
- 11- Mohammadian M, Hosseinabadi T, Ghorbani-Bidkorpheh F, Mortazavi SA, Preparation and Physicochemical Evaluation of Emulgel Formulation Containing Peel Extract and Seed Oil of Punica granatum, 8th Medical Students International Research Congress, Aug 2021, Gonabad, Iran.
- 12- Jafari S, Ghorbani-Bidkorpheh F, Formulation and Physicochemical Characterization of Stable Gel Containing Ziziphus Jujuba Fruit Extract, 4th International Congress of Pharmacy updates 2021, Feb 2021, Tehran, Iran.
- 13- Bahrami F, Ghorbani-Bidkorpheh F, Preparation and Evaluation of a Topical Gel Formulation of Salvia officinalis Aerial Branches and Calendula officinalis Flowers Extracts, 4th International Congress of Pharmacy updates 2021, Feb 2021, Tehran, Iran.
- 14- Goudarzian T, Ghorbani Bidkorpheh F, Mahboubi A, Emadi F, Design and Evaluation of a Topical Wound Healing Gel Formulation of Myrtus communis Fruit, 3th International Congress of Pharmacy updates 2020, Feb 2020, Tehran, Iran.
- 15- Ghorbani Bidkorpheh F, Microfluidics Applications in Pharmaceutical Sciences, **invited speaker**, International Congress of Pharmacy updates 2020, Feb 2020, Tehran, Iran.

- 16- Banan K, Ghorbani Bidkorbeh F, Sellergren B, Extraction and separation of amiodarone using core-shell magnetically molecularly imprinted polymers, 22nd Iranian Pharmacy Student Seminar, Apr 2019, Zanzan, Iran (awarded best poster).
- 17- Talaei S, Jafari N, Asadian E, Bavand Savadkouhi M, Ghorbani-Bidkorbeh F, Synthesis and characterization of magnetic graphene oxide nanosheets as dispersive solid phase extraction sorbent for determination of Allopurinol, 2nd International Congress of Pharmacy updates 2019, Feb 2019, Tehran, Iran.
- 18- Ezzati A, Hajinejad B, Jafariazar Z, Mortazavi SA, Ghorbani Bidkorbeh F, Study of Drug Distribution and Release Mechanisms in Naproxen Loaded Solid Lipid Nanoparticles, International Congress of Pharmacy updates 2019, Feb 2019, Tehran, Iran.
- 19- Siavashy S, Fallah N, Soltani M, Ghorbani-Bidkorbeh F, Preparation and characterization of Bosentan nanoparticles using Microfluidic approach, International Congress of Pharmacy updates 2019, Feb 2019, Tehran, Iran.
- 20- Fattahi E, Moghimi HR, Ghorbani-Bidkorbeh F, Study on the effects of drug physicochemical properties in drug delivery to burnt tissue through microneedle, International Congress of Pharmacy updates 2019, Feb 2019, Tehran, Iran.
- 21- Daryab M, Moadabi MA, Mahboubi M, Ghorbani Bidkorbeh F, Mortazavi SA, Preparation of chlorhexidine dental gel, physicochemical evaluation and antimicrobial effects, 20th Iranian Pharmacy Student Seminar, Apr 2017, Tehran, Iran (awarded best poster).
- 22- Chimerad MR, Pishbin E, Asiaei S, Ghorbani Bidkorbeh F, The Effect of Geometrical and Fluid Kinematic Parameters of a Microfluidic Platform on the Droplet Generation, IEEE 24th National and 2nd International Iranian Conference on Biomedical Engineering (ICBME), Nov 2017, Tehran, Iran.
- 23- Talaei S, Jafari N, Bavand Savadkouhi M, Asadian E, Ghorbani-Bidkorbeh F, Synthesis and characterization of magnetic graphene oxide nanosheets as dispersive solid phase extraction sorbent for determination of sumatriptan, International Congress on Biopharma 2018, Dec 2018, Tehran, Iran.
- 24- Ezzati A, Hajinejad B, Ghorbani Bidkorbeh F, Jafariazar Z, Mortazavi SA, Preparation and in-vitro evaluation of naproxen loaded solid lipid nanoparticles, International Congress on Biopharma 2018, Dec 2018, Tehran, Iran.
- 29- Ghorbani-Bidkorbeh F, Farifteh F, Saber R, Design and construction of electrochemical biosensor for detection of BRCA1 on dendrimer and gold nanoparticles, The 2nd Iranian Nanomedicine Congress, INMC 2016, Zanzan, Iran.
- 30- Baleshi N, Ghorbani-Bidkorbeh F, preparation and physicochemical evaluation of herbal semisolid formulation of common malva, Iranian Pharmaceutical Sciences Congress, IPSC2015, Tehran, Iran.

- 31- Asian Nano Forum Conference, 8-11 March 2015, Kish Island, Iran (2 presentations).
- 32- Ghorbani-Bidkorbeh F, Yousefi S, Esfandyari-Manesh M, Dinarvand R, [Novel Biodegradable Nano-Molecular Imprinted Electrochemical Sensor of Methotrexate](#), ISE 2014, Lausanne, Switzerland.
- 33- Ghorbani-Bidkorbeh F, Hooshfar S, Ghalkhani M, Kobarfard F, [Electrochemical Study of Cetrorelix Acetate Using GCE Modified with CNPs and its Analytical Application in Pharmaceutical Dosage Forms](#). ISE 2014, Lausanne, Switzerland.
- 34- 5th International Congress on Nanoscience and Nanotechnology, Oct 2014, Tehran, Iran.
- 35- Iranian CRS congress, Tehran, Iran, Feb 2014 (2 presentations).
- 36- Ghorbani-Bidkorbeh F, Picca R. A, Sellergren B, Development of Magnetic Nano Molecular Imprinted polymer (MIP) electrochemical sensors based on polymers prepared by the Core-Shell grafting-from approach, IPSC2012, Isfahan, Iran.
- 37- SCHILLINGER E, MOEDER M, OLSSON G, NICHOLLS I, GHORBANI F, SELLERGRÉN B, "An artificial estrogen receptor obtained by combinatorial imprinting for analysis and removal of active estrogen compounds", Nano4water workshop, 26 October 2010, Aachen, Germany.
- 38- Ghorbani-Bidkorbeh F, Shahrokhian S, Mohammadi A, Dinarvand R, Preparation and Comparison of Voltammetric and Potentiometric Sensors for Naltrexone HCl and their Analysis Applications in Pharmaceutical and Clinical Preparations. The 61st Annual Meeting of the ISE, Sep 26th - Oct 1st, 2010, Nice, France.
- 39- Ghorbani-Bidkorbeh F, Shahrokhian S, Mohammadi A, Dinarvand R, Electrochemical Investigation of 6-Mercaptopurine on the Surface of Carbon Paste Electrode Modified with Cobalt Salophen Complex. 61st Annual Meeting of the ISE, Sep 26th - Oct 1st 2010 Nice, France.
- 40- Ghorbani-Bidkorbeh F, Shahrokhian S, Mohammadi A, Dinarvand R, 12th Iranian Pharmaceutical Sciences Congress, July 2010, Zanzan, Iran
- 41- Ghorbani-Bidkorbeh F, Shahrokhian S, Mohammadi A, Dinarvand R, Electrochemical Study of Tramadol HCl using Glassy Carbon Electrode Modified with Carbon Nanoparticles and its Analytical Application in Pharmaceutical Dosage Forms. The 60th Annual Meeting of the ISE, Peking University, Aug 16-21, 2009, Beijing, China.

- 42- Ghorbani-Bidkorbeh F, Shahrokhian S, Dinarvand R, Polymeric Membrane Sensors for the Selective Determination of Naltrexone in Pharmaceutical Preparations, 16th Iranian Seminar of analytical chemistry, Bu Ali University, July 2009, Hamedan, Iran.
- 43- Ghorbani-Bidkorbeh F, Shahrokhian S, Dinarvand R, **Potentiometric Sensor For Diclofenac Determination In Pharmaceutical Dosage Form**, 8th Iranian Biennial Seminar of Electrochemistry, University of Kurdistan, July 2009, Sanandaj, Iran.
- 44- Ghorbani-Bidkorbeh F, Shahrokhian S, Dinarvand R, Electrochemical evaluation of Naltrexone HCl in Pharmaceutical Dosage Form and Human Plasma using Glassy Carbon Electrode Modified with Nafion Doped Carbon Nanoparticles, First regional symposium on bioelectrochemistry, Oct 2008, Tehran, Iran.
- 45- Ghorbani-Bidkorbeh F, Ghalkhani M., Pharmaceutical Analysis using modern electroanalytical techniques, 11th Iranian pharmaceutical science conference, Aug 2008, Kerman, Iran.
- 46- Ghalkhani M, Ghorbani-Bidkorbeh F, Shahrokhian S, Modification application of Carbon paste electrode modified with FePC for voltammetric determination of epinephrine in the presence of ascorbic acid and uric acid, 11th Iranian pharmaceutical science conference, Aug 2008, Kerman, Iran.
- 47- Ghorbani-Bidkorbeh F, Mohammadi A, Dinarvand R, Molecular imprinting: a dynamic technique for diverse applications in analytical chemistry (Review Article), 10th Iranian Pharmaceutical Sciences Congress, August 2006, Tehran, Iran.
- 48- Ghorbani-Bidkorbeh F, Mohammadi A, Dinarvand R, Molecular Imprinting Science and Technology (Review Article), 10th Iranian Pharmaceutical Sciences Congress, August 2006, Tehran, Iran.
- 49- Ghorbani-Bidkorbeh F, Farid J, Preparation of controlled released microcapsules containing aminophylline- resin, 9th Iranian Pharmaceutical Sciences Congress, August 2004, Tabriz, Iran.