

**CV:**

**First name:** Solmaz

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*Assistant professor at Dental and Periodontal Research Center, Tabriz University of Medical Sciences Tabriz, Iran.*

***Academic background:***

PhD in **pharmaceutical nanotechnology**, Faculty of Pharmacy, Tabriz University of Medical Science, Tabriz, Iran. 2012-2016.

MS in **physical chemistry**, Faculty of chemistry, Urmia University, Urmia, Iran. 2009-2011.

BS in **pure chemistry**, Faculty of chemistry, Tabriz University, Tabriz, Iran. 2003-2007.

***Skills and abilities:***

- ✓ Synthesis and evaluation of different types of nanoparticles, especially **inorganic nanoparticles**
- ✓ Synthesis and evaluation of different types of **dental nanomaterials**
- ✓ Formulation of **medicinal plants** as novel nano-based formulations
- ✓ Introduction to some synthesis methods of polymer-based monomers of **dental material**
- ✓ Introduction to **cell culture** and **stem cell culture**
- ✓ **Experimental design** methodologies
- ✓ Introduction to **modeling** and **analyzing** computer software like Gaussian, Gauss View, Statistica, **Experimental design** and MiniTab and STATA.
- ✓ **Meta-analysis** and systematic review
- ✓ **Conductometry** related characterization methods
- ✓ Ternary and pseudo-ternary phase diagrams

## Honors and awards:

- 1- Awarded prize for the **distinguished researcher** of Tabriz University of Medical Sciences, Research Festival Tabriz University of Medical Sciences, Tabriz, Iran (2015).
- 2- Awarded prize for the best ‘‘Short Writing’’, 2<sup>nd</sup> **National Nanotechnology Festival**, Tehran International Permanent Fairground, Tehran. Iran, (2012).
- 3- Awarded prize for the ‘‘**Third place**’’, The inventions festival of Azad university, Ahar, Iran, (2014). Subject: dental material
- 4- Awarded prize for the ‘‘**Fourth place**’’, The inventions festival of Tabriz, Alghadir Complex, Tabriz, Iran, (2014): subject: dental material
- 5- Awarded prize for the **distinguished young** of Bonab, East azarbaijan, Iran (2016).
- 6- Member of **Talent students**

## Publications

1. Sharifi S, Vahed S Z, Ahmadian E, **Maleki Dizaj S**, Eftekhari A, Khalilov R, et al., Detection of pathogenic bacteria via nanomaterials-modified aptasensors. *Biosensors and Bioelectronics*, 2020; 150: 111933.
2. .84 Sharifi S, Moghaddam F A, Abedi A, **Maleki Dizaj S**, Ahmadian S, Abdolahinia E D, et al., Phytochemicals impact on osteogenic differentiation of mesenchymal stem cells. *BioFactors*.
3. .85 Negahdari R, Bohlouli S, Sharifi S, **Maleki Dizaj S**, Rahbar Saadat Y, Khezri K, et al., Therapeutic benefits of rutin and its nanoformulations. *Phytotherapy Research*.
4. .86 **Maleki-Dizaj S**, Mokhtarpour M, Shekaari H, and Sharifi S, Hydroxyapatite-gelatin nanocomposite films; production and evaluation of the physicochemical properties.
5. Sharifi S, Samiei M, Abdolahinia E D, Khalilov R, Shahi S, and **Maleki Dizaj S**, Gelatin-hydroxyapatite nano-fibers as promising scaffolds for guided tissue regeneration (GTR): Preparation, assessment of the physicochemical properties and the effect on mesenchymal stem cells. *Journal of Advanced Periodontology & Implant Dentistry*, 2020; 12(1): 25-30.

6. Sharifi S, Fathi N, Memar M Y, Hosseiniyan Khatibi, **Maleki Dizaj S**, Khalilov R, Negahdari R, et al., Anti-microbial activity of curcumin nanoformulations: New trends and future perspectives. *Phytotherapy Research*, 2020.
7. Ghavimi M A, Negahdari R, Bani Shahabadi A, Sharifi S, Kazeminejad E, **Maleki Dizaj S**, Shahi S, et al., Preparation and study of starch/collagen/polycaprolactone nanofiber scaffolds for bone tissue engineering using electrospinning technique. *Eurasian Chemical Communications*, 2020; 2(1): 122-127.
8. Ghavimi M A, **Maleki Dizaj S**, Sadeghi S H, and Sadignia N, Sponge gelatin loaded with nanocurcumin; RSM experimental design and optimization. *Journal of advanced chemical and pharmaceutical materials (JACPM)*, 2020; 3(2): 256-257.
9. Eftekhari A, **Maleki Dizaj S**, Sharifi S, Salatin S, Rahbar Saadat Y, Zununi Vahed S, et al., The use of nanomaterials in tissue engineering for cartilage regeneration; current approaches and future perspectives. *International Journal of Molecular Sciences*, 2020; 21(2): 536.
10. **Maleki Dizaj S**, Can nanotechnology present new strategies to overcome COVID-19? *Journal of advanced chemical and pharmaceutical materials (JACPM)*, 2020; 3(3): 258-259.
11. Ahmadian E, **Maleki Dizaj S**, Sharifi S, Eftekhari A, and Samiei M, Hyaluronic acid hydrogel nanoscaffolds: production and assessment of the physicochemical properties. *Eurasian Chemical Communications*, 2020; 2(1): 51-58.
12. Ahmadian E, **Maleki Dizaj S**, Eftekhari A, Dalir E, Vahedi P, Hasanzadeh A, et al., The potential applications of hyaluronic acid hydrogels in biomedicine. *Drug research*, 2020; 70(01): 6-11.
13. Zununi Vahed S, Fathi N, Samiei M, **Maleki Dizaj S**, and Sharifi S, Targeted cancer drug delivery with aptamer-functionalized polymeric nanoparticles. *Journal of drug targeting*, 2019; 27(3): 292-299.
14. Sharifi S, Zununi Vahed S, Ahmadian E, **Maleki Dizaj S**, Abedi A, Hosseiniyan Khatibi S M, et al., Stem cell therapy: Curcumin does the trick. *Phytotherapy Research*, 2019; 33(11): 2927-2937.
15. Sharifi S, Samani A, Ahmadian E, Eftekhari A, Derakhshankhah H, Jafari S, **Maleki Dizaj S**, et al., Oral delivery of proteins and peptides by mucoadhesive nanoparticles. *Biointerface Research in Applied Chemistry*, 2019; 9(2): 3849-3852.
16. Shahi S, Özcan M, **Maleki Dizaj S**, Sharifi S, Al-Haj Husain N, Eftekhari A, et al., A review on potential toxicity of dental material and screening their biocompatibility. *Toxicology mechanisms and methods*, 2019; 29(5): 368-377.
17. Shahi S, Khan H, and **Maleki Dizaj S**, Chitosan/curcumin nanogels; the cytotoxicity to human gingival fibroblasts cells. *Journal of advanced chemical and pharmaceutical materials (JACPM)*, 2019; 2(4): 199-200.
18. Shahi S, Ahmadian E, Fathi N, Eftekhari A, Khalilov R, and **Maleki Dizaj S**, Preparation and physicochemical assessment of rutin-loaded gelatin nanoparticles.

- Journal of advanced chemical and pharmaceutical materials (JACPM), 2019; 2(2): 138-142.
19. Shahabadi A B, Memar M Y, **Maleki Dizaj S**, and Sharifi S, Antimicrobial effects of curcumin containing collagen scaffolds against *Streptococcus mutans*. Journal of advanced chemical and pharmaceutical materials (JACPM), 2019; 2(4): 197-198.
  20. Saeedi M, Eslamifar M, Khezri K, and **Maleki Dizaj S**, Applications of nanotechnology in drug delivery to the central nervous system. *Biomedicine & Pharmacotherapy*, 2019; 111: 666-675.
  21. Memar M Y, Adibkia K, Farajnia S, Kafil H S, **Maleki Dizaj S**, and Ghotaslou R, Biocompatibility, cytotoxicity and antimicrobial effects of gentamicin-loaded CaCO<sub>3</sub> as a drug delivery to osteomyelitis. *Journal of Drug Delivery Science and Technology*, 2019; 54: 101307.
  22. **Maleki Dizaj S**, Sharifi S, and Jahangiri A, Electrospun nanofibers as versatile platform in antimicrobial delivery: Current state and perspectives. *Pharmaceutical Development and Technology*, 2019; 24(10): 1187-1199.
  23. **Maleki Dizaj S**, Sharifi S, Ahmadian E, Eftekhari A, Adibkia K, and Lotfipour F, An update on calcium carbonate nanoparticles as cancer drug/gene delivery system. *Expert opinion on drug delivery*, 2019; 16(4): 331-345.
  24. Fathi N, **Maleki Dizaj S**, Hamishehkar H, and Lotfipour F. Nanostructured lipid carriers (NLC) delivering *Punica granatum* seed oil with antimicrobial activity against *Staphylococcus epidermidis*: production, characterization and in vitro studies. in *EUROPEAN JOURNAL OF IMMUNOLOGY*. 2019. WILEY 111 RIVER ST, HOBOKEN 07030-5774, NJ USA.
  25. Fathi N, Ahmadian E, Shahi S, Roshangar L, Khan H, Kouhsoltani M, **Maleki Dizaj S**, et al., Role of vitamin D and vitamin D receptor (VDR) in oral cancer. *Biomedicine & Pharmacotherapy*, 2019; 109: 391-401.
  26. Eftekhari A, Hasanzadeh M, Sharifi S, **Maleki Dizaj S**, Khalilov R, and Ahmadian E, Bioassay of saliva proteins: The best alternative for conventional methods in non-invasive diagnosis of cancer. *International journal of biological macromolecules*, 2019; 124: 1246-1255.
  27. Eftekhari A, Ahmadian E, Salatin S, Sharifi S, **Maleki Dizaj S**, Khalilov R, et al., Current analytical approaches in diagnosis of melanoma. *TrAC Trends in Analytical Chemistry*, 2019; 116: 122-135.
  28. **Maleki Dizaj S**, Rad A A, Safaei N, Salatin S, Ahmadian E, Sharifi S, et al., The Application of Nanomaterials in Cardiovascular Diseases: A Review on Drugs and Devices. *Journal of Pharmacy & Pharmaceutical Sciences*, 2019; 22: 501-515.
  29. **Maleki Dizaj S**, Mokhtarpour M, Shekaari H, and Sharifi S, Hydroxyapatite-gelatin nanocomposite films; production and evaluation of the physicochemical properties. *Journal of advanced chemical and pharmaceutical materials (JACPM)*, 2019; 2(2): 111-115.

30. Ahmadian E, Eftekhari A, Samiei M, **Maleki Dizaj S**, and Vinken M, The role and therapeutic potential of connexins, pannexins and their channels in Parkinson's disease. *Cellular signalling*, 2019; 58: 111-118.
31. Ahmadian E, Eftekhari A, **Maleki Dizaj S**, Sharifi S, Mokhtarpour M, Nasibova A N, et al., The effect of hyaluronic acid hydrogels on dental pulp stem cells behavior. *International journal of biological macromolecules*, 2019; 140: 245-254.
32. Ahmadian E, **Maleki Dizaj S**, Sharifi S, Shahi S, Khalilov R, Eftekhari A, et al., The potential of nanomaterials in theranostics of oral squamous cell carcinoma: Recent progress. *TrAC Trends in Analytical Chemistry*, 2019; 116: 167-176.
33. Abbasi N, Molavipordanjani S, Akbari J, Hosseinimehr S J, Mirhoseini M, Gatabi Z, **Maleki Dizaj S**, et al., Pharmacokinetic Evaluation of <sup>99m</sup>Tc-radiolabelled Solid Lipid Nanoparticles and Chitosan Coated Solid Lipid Nanoparticles. *Current Drug Metabolism*, 2019.
34. Yazdani J, Ahmadian E, Sharifi S, Shahi S, and **Maleki Dizaj S**, A short view on nanohydroxyapatite as coating of dental implants. *Biomedicine & Pharmacotherapy*, 2018; 105: 553-557.
35. Vazifehasl Z and **Maleki Dizaj S**, The importance of phase diagrams for drug delivery systems. *Journal of advanced chemical and pharmaceutical materials (JACPM)*, 2018; 1(1): 16-19.
36. Sharifi S, Samiei M, Vahed S Z, Sunar S, and **Maleki Dizaj S**, A brief view on principle, mechanism and advantages of NanoPCR. *Journal of advanced chemical and pharmaceutical materials (JACPM)*, 2018; 1(3): 67-72.
37. Sharifi S, Mokhtarpour M, Jahangiri A, Dehghanzadeh S, **Maleki-Dizaj S**, and Shahi S, Hydroxyapatite nanofibers as beneficial nanomaterial in dental sciences. *BIOINTERFACE RESEARCH IN APPLIED CHEMISTRY*, 2018; 8(6): 3695-3699.
38. Shahi S, Yazdani J, Ahmadian E, Sunar S, and **Maleki Dizaj S**, Restorative nanofillers in prevention of dental caries; A brief review. *Journal of advanced chemical and pharmaceutical materials (JACPM)*, 2018; 1(2): 62-64.
39. Parnia F, Yazdani J, and **Maleki Dizaj S**, Applications of mesenchymal stem cells in sinus lift augmentation as a dental implant technology. *Stem cells international*, 2018; 2018.
40. Maleki A, Karimpour A, Mokhtarpour M, and **Maleki Dizaj S**, Effect of nano-fillers on mechanical properties of dental PMMA based composites. *Journal of advanced chemical and pharmaceutical materials (JACPM)*, 2018; 1(3): 73-76.
41. Maleki A, Karimpour A, and **Maleki Dizaj S**, The role of mechanical engineering in the development of nano drug delivery systems; a review. *International Journal of Nano Dimension*, 2018; 9(1): 1-6.
42. Khezri K, Saeedi M, and **Maleki Dizaj S**, Application of nanoparticles in percutaneous delivery of active ingredients in cosmetic preparations. *Biomedicine & Pharmacotherapy*, 2018; 106: 1499-1505.

43. Eftekhari A, **Maleki Dizaj S**, Chodari L, Sunar S, Hasanzadeh A, Ahmadian E, et al., The promising future of nano-antioxidant therapy against environmental pollutants induced-toxicities. *Biomedicine & Pharmacotherapy*, 2018; 103: 1018-1027.
44. Eftekhari A, Ahmadian E, Panahi-Azar V, Hosseini H, Tabibiazar M, and Maleki Dizaj S, Hepatoprotective and free radical scavenging actions of quercetin nanoparticles on aflatoxin B1-induced liver damage: in vitro/in vivo studies. *Artificial cells, nanomedicine, and biotechnology*, 2018; 46(2): 411-420.
45. Eftekhari A, Ahmadian E, Azami A, Johari-Ahar M, and Eghbal M A, **Maleki Dizaj S**, Protective effects of coenzyme Q10 nanoparticles on dichlorvos-induced hepatotoxicity and mitochondrial/lysosomal injury. *Environmental toxicology*, 2018; 33(2): 167-177
46. **aleki Dizaj S**, Maleki A, Lotfipour F, Sharifi S, Rezaie F, and Samiei M, Porous hydroxyapatite-gelatin nanoscaffolds for bone and teeth applications. *Biointerface Research in Applied Chemistry*, 2018; 8(6): 3670-3673.
47. Ahmadian E, Shahi S, Yazdani J, **Maleki Dizaj S**, and Sharifi S, Local treatment of the dental caries using nanomaterials. *Biomedicine & Pharmacotherapy*, 2018; 108: 443-447.
48. Ahmadian E, **Maleki Dizaj S**, Rahimpour E, Hasanzadeh A, Eftekhari A, Halajzadeh J, et al., Effect of silver nanoparticles in the induction of apoptosis on human hepatocellular carcinoma (HepG2) cell line. *Materials Science and Engineering: C*, 2018; 93: 465-471.
49. Parnia F, Yazdani J, Javaherzadeh V, and **Maleki Dizaj S**, Overview of nanoparticle coating of dental implants for enhanced osseointegration and antimicrobial purposes. *Journal of Pharmacy & Pharmaceutical Sciences*, 2017; 20: 148-160.
50. Nahaei M, Rahbarfam P, Kalajahi M, **Maleki Dizaj S**, and Lotfipour F, Antibacterial Activity of Anti-Aphthous Spray and Oral Drop: Two Thymus Commercial Products. *Pharmaceutical Sciences*, 2017; 23(2): 166-169.
51. **Maleki Dizaj S**, Lotfipour F, Barzegar-Jalali M, Zarrintan M-H, and Adibkia K, Ciprofloxacin HCl-loaded calcium carbonate nanoparticles: preparation, solid state characterization, and evaluation of antimicrobial effect against *Staphylococcus aureus*. *Artificial cells, nanomedicine, and biotechnology*, 2017; 45(3): 535-543.
52. Aziz Eftekhari E A, Vahid Panahi-Azar, Hedayat Hosseini, Mahnaz Tabibiazar and **Maleki Dizaj S**, Hepatoprotective and free radical scavenging actions of quercetin nanoparticles on aflatoxin B1-induced liver damage: in vitro/in vivo studies. *Artificial Cells, Nanomedicine, and Biotechnology*, 2017.
53. Anaraki M R, Jangjoo A, Alimoradi F, **Maleki Dizaj S**, and Lotfipour F, Comparison of Antifungal Properties of Acrylic Resin Reinforced with ZnO and Ag Nanoparticles. *Pharmaceutical Sciences*, 2017; 23(3): 207-214

54. Samiei M, Farjami A, **Maleki Dizaj S**, and Lotfipour F, Nanoparticles for antimicrobial purposes in Endodontics: A systematic review of in vitro studies. *Materials Science and Engineering: C*, 2016; 58: 1269-1278.
55. Nemati M, Hamidi A, **Maleki Dizaj S**, Javaherzadeh V, and Lotfipour F, An overview on novel microbial determination methods in pharmaceutical and food quality control. *Advanced pharmaceutical bulletin*, 2016; 6(3): 301.
56. Nahaei M, Kalejahi M, Rahbarfam P, **Maleki Dizaj S**, and Lotfipour F, Evaluation the Antibacterial Effects of Two Commercial Products of *Eucalyptus globulus* Against Common Microbial Causes of Respiratory Tract Infections. *Pharmaceutical Sciences*, 2016; 22(4): 285-290.
57. **Maleki Dizaj S**, Lotfipour F, Barzegar-Jalali M, Zarrintan M-H, and Adibkia K, Application of Box–Behnken design to prepare gentamicin-loaded calcium carbonate nanoparticles. *Artificial cells, nanomedicine, and biotechnology*, 2016; 44(6): 1475-1481.
58. **Maleki Dizaj S**, Lotfipour F, Barzegar-Jalali M, Zarrintan M-H, and Adibkia K, Physicochemical characterization and antimicrobial evaluation of gentamicin-loaded CaCO<sub>3</sub> nanoparticles prepared via microemulsion method. *Journal of Drug Delivery Science and Technology*, 2016; 35: 16-23.
59. Salatin S, **Maleki Dizaj S**, and Yari Khosroushahi A, Effect of the surface modification, size, and shape on cellular uptake of nanoparticles. *Cell biology international*, 2015; 39(8): 881-890.
60. Salatin S, Jelvehgari M, **Maleki-Dizaj S**, and Adibkia K, A sight on protein-based nanoparticles as drug/gene delivery systems. *Therapeutic delivery*, 2015; 6(8): 1017-1029.
61. **Maleki Dizaj S**, S Salatin, Kh Adibkia, Y Javadzadeh, Nanosizing of drugs: Effect on dissolution rate. *Research in Pharmaceutical Sciences (RPS)*, 2015; 10(2): 95-108.
62. Rameshrad M, Seyed Toutounchi N, and **Maleki Dizaj S**, Pharmacological and Medicinal Aspects of the Verses Containing Fig (*At-tin*) in Holy Quran. *Health, Spirituality and Medical Ethics*, 2015; 2(3): 30-36.
63. **Maleki Dizaj S**, Barzegar-Jalali M, Zarrintan M H, Adibkia K, and Lotfipour F, Calcium carbonate nanoparticles; potential applications in bone and tooth disorders. *Pharmaceutical Sciences*, 2015; 20(4): 175-182.
64. **Maleki Dizaj S**, Barzegar-Jalali M, Zarrintan M H, Adibkia K, and Lotfipour F, Calcium carbonate nanoparticles as cancer drug delivery system. *Expert opinion on drug delivery*, 2015; 12(10): 1649-1660.
65. **Maleki Dizaj S** and Adibkia K, Editorial Letter; A Short Overview on the Nanoparticle-Based Smart Drug Delivery Systems. *J Pharma Sci Drug Des*, 2015; 2(1): 1- 2.
66. Javadzadeh Y, Vazifehasl Z, **Maleki Dizaj S**, and Mokhtarpour M, Spherical Crystallization of Drugs. *Intech open*, 2015: 85-104.

67. Javadzadeh Y, **Maleki Dizaj S**, Vazifehasl Z, and Mokhtarpour M, Recrystallization of Drugs-Effect on Dissolution Rate. *Recrystallization in Materials Processing*, 2015; 191: 211.
68. Jafari S, **Maleki Dizaj S**, and Adibkia K, Cell-penetrating peptides and their analogues as novel nanocarriers for drug delivery. *BioImpacts: BI*, 2015; 5(2): 103.
69. **Maleki Dizaj S**, Vazifehasl Z, Salatin S, Adibkia K, and Javadzadeh Y, Nanosizing of drugs: effect on dissolution rate. *Research in pharmaceutical sciences*, 2015; 10(2): 95.
70. **Maleki Dizaj S**, Mennati A, Jafari S, Khezri K, and Adibkia K, Antimicrobial activity of carbon-based nanoparticles. *Advanced pharmaceutical bulletin*, 2015; 5(1): 19.
71. **Maleki Dizaj S**, Lotfipour F, Barzegar-Jalali M, Zarrintan M-H, and Adibkia K, Box-Behnken experimental design for preparation and optimization of ciprofloxacin hydrochloride-loaded CaCO<sub>3</sub> nanoparticles. *Journal of drug delivery science and technology*, 2015; 29: 125-131.
72. Aziz Eftekhari E A, d **Maleki Dizaj S**, Ali Reza Parvizpur. Cytoprotective properties of PLGA loaded coenzyme Q10 (CoQ10) nanoparticles against Malathion-induced cytotoxicity in isolated rat hepatocyte. in 51st Congress of the European Societies of Toxicology. 2015.
73. **Maleki Dizaj S**, M Barzegar-Jalali, MH Zarrintan, K Adibkia, Antimicrobial activity of the metals and metal oxide nanoparticles. *Materials Science & Engineering C*, 2014; 44: 278-284.
74. **Maleki Dizaj S** and Lot F, pour, M. Barzegar-Jalali, MH Zarrintan and K. Adibkia. *Mater. Sci. Eng., C*, 2014; 44(1): 278.
75. **Maleki Dizaj S**, Jafari S, and Khosroushahi A Y, A sight on the current nanoparticle-based gene delivery vectors. *Nanoscale research letters*, 2014; 9(1): 252.
76. Atashafrooz Z, **Maleki Dizaj S**, and Salehi Sadaghiani A, Cucurbita pepo oil as a drug microemulsion formulation: study of phase diagram. *Nanomedicine Journal*, 2014; 1(5): 298-301.
77. Vazifehasl Z, Hemmati S, Zamanloo M, and **Maleki Dizaj S**, New series of dimethacrylate-based monomers on isosorbide as a dental material: synthesis and characterization. *International Journal of Composite Materials*, 2013; 3(4): 100-107.
78. **Maleki Dizaj S**, Preparation and study of vitamin A palmitate microemulsion drug delivery system and investigation of co-surfactant effect. *Journal of nanostructure in chemistry*, 2013; 3(1): 59.
79. Z Atashafrooz, **Maleki Dizaj S**, M Sattari, Investigation of phase behavior of Cucurbita pepo oil microemulsion system by conductometry method. *Research in Pharmaceutical Sciences Journal (RPS)*, 2012; 7(5): s642.

80. **Maleki Dizaj S**, Z Atashafrooz, Detection Boundary of Single Phase Area of Phase Diagram of Vitamin A Palmitat Using of Conductometry Method and Polarized Microscopy. *Research in Pharmaceutical Sciences Journal (RPS)*, 2012; 7(5): s541.
81. **Maleki Dizaj S**, N Habibyar, Study of co-surfactant effect on Vitamin A palmitat O/W microemulsion system. *Research in Pharmaceutical Sciences Journal (RPS)*. 2012; 7(5): s293.
82. **Maleki Dizaj S**, A. Maleki, Statistical study of encapsulation of Vitamin A palmitat drug using mixture design method. *Research in Pharmaceutical Sciences Journal (RPS)*. 2012; 7(5): s292.
83. **Maleki Dizaj S**, A Salehi-Sadaghiani, Determine and compare the cmc point of SDS, Triton x-100 and CTAB surfactants using conductometry method. *Journal of applied chemistry*, 2011; 6(20): 47-52.

## **Books and book chapters**

1. Javadzadeh, Y., Maleki Dizaj S, et al., **Recrystallization of Drugs—Effect on Dissolution Rate**. 2014. InTech.
2. Javadzadeh, Y., Vazifeh zh, Maleki Dizaj S, et al., **Spherical Crystallization of Drugs**. 2015. InTech.
3. Maleki Dizaj S, ShYaqoubi, Kh Adibkia, Lotfipour F. **Nanoemulsion-Based Delivery Systems; Preparation and Application in the Food Industry**, 2016, Elsevier
4. ShYaqoubi, Maleki Dizaj S, Kh Adibkia, **Nanofibers: potential and application in drug delivery and treatment of disease**, 2016, Elsevier.
5. Salatin S, Ahmadian E, Mokhtarpour M, Sharifi S, Eftekhari A, Solmaz Maleki Dizaj, et al. **Introduction: An overview of the non-parenteral delivery of nanomedicine. Theory and Applications of Nonparenteral Nanomedicines**:1-25.
6. Solmaz Maleki Dizaj, Masumeh Mokhtarpour, **Statistical thermodynamic problems**, 2008, YASE NABI, Iran.

## Patents:

1. **Preparation of gelatin sponge nanostructure with antibacterial properties**, 2020, Tabriz, Iran.
2. **Bilayer membranes with simultaneous antimicrobial effects and bone regeneration**, 2020, Tabriz, Iran.
3. **Dimethacrylates monomers based on isosorbide as material in the preparation of dental composites**; 2013, Tabriz, Iran.
4. **Preparation of vitamin A palmitate nanosphers**; 2013, Tabriz, Iran.

## Workshops

- 1) Introduction to **stem cell culture**, Umbilical Cord Stem Cell Research Center, Tabriz University of Medical Science. 2014.
- 2) **Paper writing for PhD Workshop**, Tabriz University of medical science, faculty of pharmacy, 2012, Tabriz, Iran.
- 3) Workshop for **review of the scientific papers**, Tabriz University of medical science, 2016, Tabriz, Iran.
- 4) Workshop for **proposal writing**, Tabriz University of medical science, 2016, Tabriz, Iran
- 5) Workshop on **intellectual property** -Tehran - Nanotechnology Initiative Council
- 6) Workshop on **SPM microscopy (AFM)**- Tehran - Nanotechnology Initiative Council
- 7) Workshop on **XRD and TEM** for material characterization- Tehran - Nanotechnology Initiative Council

## **Presentation**

Number of international presentation: 4

Number of national presentation: 17

Number of oral presentation: 3

Number of poster presentation: 17

### **International congress:**

a) Aziz Eftekhari, Elham Ahmadian, **Solmaz Maleki** 9th Congress of the Turkish Society of Toxicology with the participation of the Hellenic Society of Toxicology, TurkHelTox ([www.turkheltox2015.org](http://www.turkheltox2015.org))" to be held on October 21st-24th, 2015 in Izmir, **Turkey. Oral presentation**

b) **Solmaz Maleki**, Zahra attashafrooz, Alireza Salehi Sadaghiani Encapsulation of Vitamin A Palmitat by Microemulsion Technique: Study of Co-Surfactant Effect, 4<sup>th</sup> international congress of nanotechnology, Joint Iran and Belarus, Iran, **kashan**, 2012. **Poster presentation**

c) **Solmaz Maleki**, Zahra attashafrooz, Alireza Salehi Sadaghiani, Cucurbita Pepo Microemulsion System, 4<sup>th</sup> international congress of nanotechnology, Joint Iran and Belarus, Iran, **kashan**, 2012. **Poster presentation**