# Faculty of Medical Sciences
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## PERSONAL INFORMATION

**Name:** Manijhe Mokhtari-Dizaji
**Date of birth:** 2. 2.1965
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## EDUCATIONAL RECORDS

| Degree | Institution | Field | Date |
|---|---|---|---|
| **B.Sc.** | Ferdosi Mash-had University | Applied Physics (Solid States) | 1987 |
| **M.Sc.** | Tarbiat Modares University | Medical Physics | 1991 |
| **Ph.D.** | Tarbiat Modares University | Medical Physics | 1998 |

## ACADEMIC EXPERIENCES

1. Staff Member: Department of Medical Physics, Iran Medical Sciences University, Tehran, Iran (1991-1993).
2. Staff Member: Department of Medical Engineering, Azad University, Tehran, Iran (1993-1999).
3. Professor: Department of Medical Physics, Tarbiat Modares University, Tehran, Iran (since 1999)

## MEMBERSHIP OF SCIENTIFIC SOCIETIES

1. Medical Physics Society of I.R. Iran, Since1998.
2. Medical Engineering Society of I. R. Iran, Since 2002
3. Iranian Society of Cardiac Surgeons of I. R. Iran, since 2004
4. IEEE, MBC, since 2007
5. Biomechanical Society, since 2008

## REFEREE FOR JOURNAL ARTICLES SUBMITTED TO

1) Iranian J. Medical Physics, Iranian Association of Medical Physics.
2) Modares, J. Medical Science, TMU.
3) Iranian J. Radiation Research, TMU.

4) Kerman, J. Medical Science, Kerman University.
5) Kosar, J. Medical Science, Baghiat-allah Medical Science University.
6) Koomesh, J. Medical Science, Semnan University.
7) Iranian Medical Sciences University, Iran Medical Sciences University
8) Medical Engineering J, Iranian Association of Medical Engineering
9) Iranian J. Radiology, Iranian Association of Radiology
10)Daneshvar, Shahed University
11)Mashhad J. Medical Sciences, Mashhad University
12) Medical Basic Sciences, Mash-had University
13) Physiological measurements, IOP
14) J Nanopart Res

## RESEARCH INTERESTS

1. Ultrasonic Tissue Characterization
2. Bone Densitometry
3. Laser, Interaction with tissue, repair
4. Mechanical parameters in Cardio-vascular system
5. Mechanical Parameters in ophthalmology
6. Mechanical Parameters in Breast and lesions
7. Sonodynamic Therapy
8. Low Level Laser Therapy, Prostate and Liver
9. Targeted Therapy with nanoparticles

## RESEARCH PUBLICATIONS (Journal Papers)

1. Mohamadi H, Mokhtari-Dizaji M, Sagari M. Beginning and activity of primery five years of nuclear Medicine in IRAN, Iran J Nuclear Medicine, 1996; 1: 1-5.

2. Mokhtari-Dizaji M, Zahedi E, Sharafi A.A. Production of breast tissue mimicking materials for using ultrasonography. Daneshvar, 1998; 5: 13-20.

**3. Yoosefian B, Mozdarani H, Mokhtari-Dizaji M. Cytogenetic effects of continuous therapeutic ultrasound waves on human lymphocytes in $G_0$ phase of cell cycle. J Kerman Med Sci University, 2001; 8: 161-168.

**4. Mokhtari-Dizaji M. Differentiation of microcalcification by digital mommography method: a new processing method. Komesh, Medical Sciences of Semnan, 2001, 2: 185-191.

**5. Mokhtari-Dizaji M. Tissue-mimicking materials for teaching sonographer and evaluation of their specifications after three years. Ultrasound Med Biol, 2001, 27: 1713-1716.

**6. Mozdarani H, Yoosefian B, Mokhtari-Dizaji M. Ultrasound waves effects with BLM on Mn formation in human lymphocytes in $G_0$ phase of cell cycle. Kossar, 2002, 7: 27-34.

**7. Mokhtari-Dizaji M. Design and production of controllable loading systems for production of stress in breast tissue and lesions. J Babol Med Sci, 2002; 14: 13-17.

**8. Mokhtari-Dizaji M, Vahed M, Gity M. Comparison of propagation velocity of ultrasound waves in malignant, benign lesions and normal breast tissue in condition *in vitro*. Daneshvar, 2002; 10: 51-55.

9. Mokhtari-Dizaji R, Mokhtari-Dizaji M. A cross relation matched field processor for source localization. Int J Eng Sci, 2003; 14: 59-70.

**10. Mokhtari-Dizaji M, Nikanjam N, Babapoor B. Estimation of elastic modulus, stiffness, distensibility and young modulus in atherosclerosis of human common carotid artery. Iran Heart J, 2003; 4: 68-74.

**11. Vahed M, Mokhtari-Dizaji M, Gity M. Attenuation coefficient of ultrasonic wave in normal breast tissue, benign and malignant lesions at different temperature. JMUMS 2003, 13: 101-111.
.
**12. Mokhtari Dizaji M, Vahed M, Gity M. The application of discriminant analysis in differentiation of fibroadenoma and ductal carcinoma of breast tissue using ultrasound velocity measurement. Iran J Radiat Res, 2003; 1: 163-169.

**13. Mantegi F, Sharafi A, Mokhtari-Dizaji M. Evaluation of basic parameters of real time diagnosis ultrasound systems. Koomesh, J Semnan Med Sci University 2003, 5: 73-80.

**14. Mokhtari-Dizaji M, Nikanjam N. Estimation of elastic parameters of normal and atherosclerotic common carotid artery in women using arterial static pressure changes. Iran J Medical Physics, 2003, 4: 68-74.

**15. Mokhtari-Dizaji M, Mokhtari-Dizaji R. Acoustic parameters estimation using back wave propagation technique. Int J Eng Sci, 2004, 15: 65-72.

**16. Mokhtari-Dizaji M, Rahmani T, Kazemnejad A. Linear correlation of local strain–static pressure elastic modulus in RCCA and LCCA in symptoms of atherosclerosis. Iran J Med Phys 2004, 4 and 5: 69-75.

17. Mokhtari-Dizaji M, Nikanjam n, Saberi H. Presentation of a non invasive method for of initial symptoms of atherosclerosis using estimation of local static pressure by ultrasound. Iran Heart J 2004, 5: 71-80.

**18. Abdolmaleki P, Mokhtari-Dizaji M, Vahed M.R, Gity M. Logistic discriminant analysis of breast cancer using ultrasound measurements. Iran J Radiat Res 2004, 2: 27-34.

**19. Mokhtari-Dizaji M, Sharafi AK, Mantegi F, Khoodaparast N. Quality control system for diagnostic real time ultrasound. J Army Med Sci University Iran, 2004: 1: 164-170.

**20. Mokhtari-Dizaji M, Nikanjam N. Evaluation of diameter changes, stress-strain elastic modulus and stiffness in normal and atherosclerotic Common carotid arteries based on end pressure-variation with sex. J Kerman University Med Sci 2004, 11: 170-177.

**21. Mokhtari-Dizaji M, Hasanzade J, Jabarvand M, Zarin M. An ultrasound technique for the measurement of the elastic moduli of rabbit eye. Iran J Med Phys 2004, 4, 5: 77-82.

**22. Hassankhani H, Mohammadi F, Moazzami M, Mokhtari M, Naghizade M. N. The effects of warming intravenous fluids on perioperative haemodynamic situation, potoperative shivering and recovery in orthopaedic surgery. ARAK Med Sci University J 2004; 6: 11-18.

**23. Abdolmaleki P, Mokhtari-Dizaji M, Vahed M.R, Gity M. Application of Neural network in differentiation of benign and malignant patterns in breast lesions based on ultrasonography. Daneshvar 2005; 56: 1-7.

**24. Mokhtari-Dizaji M, Nikanjam N, Saberi H. Detection of initial symptoms of atherosclerosis using estimation of local static pressure by ultrasound. Atherosclerosis 2005, 178: 123-128.

**25. Mokhtari-Dizaji M, Hasanzade M.J, Jabarvand M, Zarin M, Jafarzade A. Creating cataract in rabbit eyes and estimation of elastic moduli of cataractous orbit. Iran Med Sci University 2005, 12: 163-172.

**26. Khooshkar A, Maerefat M, Mokhtari-Dizaji M. Suggesting a new model for arterial pressure gradiant by measuring the centre line velocity of using ultrasound method. J Modares Med Sci 2005; 7: 41-48.

**27. Shahidi M, Mozdarani H, Mokhtari-Dizaji M. Comparison of the radiation sensitivity of leukocytes from healthy individuals and breast cancer patients as measured by the alkaline comet assay. JMUMS, 2005, 15: 104-116.

**28. Nikanjam N, Mokhtari-Dizaji M, Saberi H. Application of static pressure changes in estimation of elastic parameters of artery by Doppler ultrasound. Iran J Radiol, 2005, 2: 102-105.

**29. Khooshkar A, Maerefat M, Mokhtari-Dizaji M. Determination of elastic modulus of artery wall by modeling of artery wall and blood flow. Iran J Biomed Eng, 2007: 1: 95-104.

**30. Mortezazadeh M., Movahedin M., Mokhtari-Dizaji M. The effect of testosterone treatment on structure of mouse testes. J Tashrih, 2005 (1384), 3 (1): 27-37.

**31. Yousefi-Diba A. A, Mokhtari-Dizaji M, Larijani B, Salehnia M, Torkaman G. The effect of laser therapy of 30 mW on bone repair: Histological study. J Tashrih, 2005, 3: 67-74.

**32. Hassankhani H, Mohammadi F, Moazzami M, Mokhtari M, Naghizade M. N. The effects of warming intravenous fluids on perioperative haemodynamic situation, potoperative shivering and recovery in orthopaedic surgery. Br J Anaesthetic Recovery Nursing 2005; 6: 7-11.

**33. Kashef N, Behzadian-nejad Q, Mokhtari-Dizaji M, Sattari M. Synergism between 1 megahertz therapeutic ultrasound pulse ceftazidime on growth of pseudomonas aeruginosa. Med J Islamic Republic of Iran 2005; 19: 251-254.

**34. Rahgozar S, Maerefat M, Mokhtari-Dizaji M. Presentation of a non invasive method to estimate arterial stiffness with modeling blood flow and arterial wall based on determination of elastic modulus of arterial wall. Iran J Med Phys 2005; 7: 35-44.

**35. Gorjiara T, Mokhtari-Dizaji M, Ganaati H. Evaluation of temperature growth and thermal lesion dimensions in liver laser interstitial thermotherapy. Iran J Med Phys 2005; 7: 55-66.

**36. Abolmaleki P, Abrishami-Mogadm H, Gity M, Mokhtari-Dizaji M, Mostafa A. Improving the performance of neural network in differentiation of breast tumors using wavelet transformation on dynamic MRI. Iran J Radiat Res, 2005; 3: 135-142.

**37. Mokhtari-Dizaji M, Rahmani T, Gity M. Biomechanical behavior of the common femoral artery: healthy and atherosclerotic artery. J Army Med Sci University 2005; 3: 473-480.

**38. Mokhlesian N, Sharafi A A, Mokhtari-Dizaji M Larijani B. Estimation of absorbed dose of uterus and thyroid in women based on scan center dose in radiation with DEXA pencil-beam system. J Kerman Med Sci University 2005; 13: 75-83.

**39. Mortezazade F, Movahedin M, Mokhtari-Dizaji M. The effects of association of ultrasound therapy with testosterone treatment on mouse testis. . J Army Med Sci University Iran 2005; 4 &3: 537-545.

**40. Mokhtari-Dizaji M, Dadras M. R, Larijani A. Bone mineral density value dependence on bone width. Iran J Radiol, 2006, 3: 113-118.

**41. Barati, A H, Mokhtari-Dizaji M, Mozdarani H, Bathaie S Z, Hassan Z. Free hydroxyl radical dosimetry due to 1 MHz low level ultrasound waves. Iran J Radiat Res, 2006; 3: 163-169.

42. Rahgozar S, Maerefat M, Mokhtari-Dizaji M. Presentation of non invasive method to estimation arterial stiffness with modeling blood flow and arterial wall cased on determination of elastic modulus of arterial wall. J Biomech, 2006; 39: 609-610.

43. Mokhtari-Dizaji M, Dadras M R, Larijani B, Torkaman G. Quantitative ultrasound to predict the mechanical properties of bone. J Biomech, 2006; 39: 465.

**44. Mokhtari-Dizaji M, Montazeri M, Saberi H. Differentiation of mild and severe stenosis with motion estimation in ultrasound images. Ultrasound Med Biol 2006; 32: 1493-1498.

**45. Moladoust H, Mokhtari-Dizaji M, Ojaghi Z, Noohi F, Khaledifar A, Grailu H. Determination of instantaneous interventricular septum wall thickness by processing sequential 2D echocardiographic images. Pak J Biol Sci, 2007; 10: 454-461.

**46. Mokhtari-Dizaji M, Dadras M R, Larijani B. Influence f bone thickness on densitometric and ultrasonic parameters: an in vivo study. Pak J Biol Sci, 2007; 10: 545-552.

**47. Mokhtari-Dizaji M, Gorjiara T, Ganaeti H. Assessment of pixel shift in ultrasound images due to local temperature changes during the LITT of liver: *in vitro* study. Ultrasound Med Biol 2007; 33: 934-940.

**48. Montaseri A, Mokhtari-Dizaji M, Akhlaghpour S, Alinaghizadeh M R. Investigation of brightness changes in ultrasound images due to variations of temperature in liver tissue during radiofrequency ablation. Iran J Med Phys 2007; 10: 55-67.

**49. Mokhtari-Dizaji M, Yousefi-Diba A, Larijani B, Salehnia M, Torkaman G, Dadras M R. Assessment of efficiency of ultrasound parameters in detection of bone repair process in rabbit's tibia. Iran J Med Phys 2007; 10: 45-53.

**50. Barati A H, Mokhtari-Dizaji M, Mozdarani H, BathaieS Z, Hassan Z. Effect of exposure parameters on cavitation induced by low level dual-frequency ultrasound. Ultrasonics Sonochem, 2007; 14: 783-789.

**51. Gorjiara T, Mokhtari-Dizaji M, Ghanaeati H. Ultrasound monitoring of temperature changes in liver tissue during laser thermotherapy: *in vitro* study. Iranian J Radiol 2007, 4: 95-101.

**52. Maerefat M, Rahgozar S, Mokhtari-Dizaji M. Estimation of elasticity by modeling blood flow using clinical ultrasound data. Pak J Biol Sci, 2007; 10: 2569-2574.

**53. Rahmani-Cherati T, Mokhtari-Dizaji M, Gity M. Association of atherosclerosis in carotid artery with elastic modulus of brachial artery. J The Univ Heart Ctr, 2007; 1: 15-19.

**54. Moladoust H, Mokhtari-Dizaji M, Ojaghi-Haghighi Z, D'hooge J, Noohi F, Khaledifar A, Khajavi A. Radial strain assessment of the interventricular septum wall by a new technique in healthy subjects. Med Biol Eng Comput, 2007; 45: 855-862.

55. Mokhtari-Dizaji M, Gity M, Kalbasi-Anaraki M. Estimation of lateral elastic modules for detection of lesions in breast tissue using ultrasongraphy. J Biomech 2007; 40: 263. http://dx.doi.org/10.1016/S0021-9290(07)70725-X

**56. Shahbazi S, Mokhtari-Dizaji M, Zarin M, Mansori M. Estimation of the axial elastic modulus of orbit and posterior wall thickness in healthy human eye by ultrasound images: Relation with age and gender. Iran J Med Phys; 2007; 4: 1-9.

57. Mokhtari-Dizaji M, Gorji-Ara T, Ghanaeati H, Kalbasi M. Ultrasound monitoring of temperature change in liver tissue during laser thermotherapy: 10 degrees C intervals. Conf Proc IEEE Eng Med Biol Soc. 2007; 2007: 2130-2133.

**58. Mokhtari-Dizaji M, Sharafi A A, Larijani B, Mokhlesian N, Hasanzadeh H. Estimation of absorbed dose to critical organs in dual x-ray absorptiometry. Korean J Radiol; 2008, 9: 102-110.

**59. Moladoust H, Mokhtari-Dizaji M, Ojaghi-Haghighi Z, Noohi F, Khajavi A. Frame rate requirement for tissue Doppler imaging in different phases of cardiac cycle: radial and longitudinal functions. Int J Cardiovasc Imaging, 2008; 24: 377-387.

**60. Rafati M, Mokhtari-Dizaji M, Saberi H. The effect of reactive artery hyperaemia on the radial strain of brachial artery: Definition of optimum cuff position. Iran J Physiol Pharmacol; 2008; 12: 52-59.

**61. Rafati M, Mokhtari-Dizaji M, Saberi H. Extraction of optimum parameters of reactive hyperaemia for increasing distensibility of brachial artery. J Kerman Med Sci University; 2008; 15: 112-124.

**62. Mokhtari-Dizaji M, Abdolmaleki P, Saberi H, Rahmani T. Applying the logistic regression model to predict the stenosis in carotid artery using the sequential color Doppler ultrasound image processing. Iran Heart J 2008; 9: 43-50.
84091

**63. Moladoust H, Mokhtari-Dizaji M, Ojaghi-Haghighi Z, Noohi F, Khajavi A, Khaledifar A. Estimation of LV end-diastolic pressure using Color-TDI and its application to noninvasive quantification of myocardial wall stress. Echocardiography 2009; 26: 403-410.

**64. Moladoust H, Mokhtari-Dizaji M, Ojaghi-Haghighi Z. Assessment of regional myocardial displacement by spectral tissue Doppler comparing with color tissue tracking. J The Univ Heart Ctr 2008; 4: 209-214.

**65. Sharafi AA, Mokhtari-Dizaji M, Mokhlesian N, Larijani B, Kazemnejad A. Depth dose of critical organs of phantom based on surface dose exposed with dual X-ray absorptiometry: pencil beam using TLD dosimetry. J Semnan University Med Sci 2009; 10: 87-95.

**66. Moladoust H, Mokhtari-Dizaji M, Ojaghi-Haghighi Z. Estimation of septal wall thickness by processing sequential echocardiographic images. Iran Cardiovasc Res J 2009; 3: 24-33.

67. Moladoust H, Mokhtari-Dizaji M, Ojaghi-Haghighi Z, Mirdamadi A, Khajavi A. Left ventricular end diastolic pressure estimation using color Doppler myocardial Imaging in CAD Patients. J Biomech 2008; 41 (Supl 1): S149.

**68. Barati A H, Mokhtari-Dizaji M, Mozdarani H, BathaieS Z, Hassan Z. Treatment of murine tumor by dual-frequency ultrasound in an experimental in vivo model. Ultrasound Med Biol 2009; 35: 756-763.

**69. Zaki Dizaji H, Minaei H, Tavakkoli Hashtjin T, Mokhtari M. Development of an ultrasonic system and evaluation of effective parameters in ultrasonic measurement of agricultural products. J Agricultural Eng Res 2009; 10: 27-48.

**70. Mokhtari-Dizaji M, Maerefat M, Rahgozar S. Estimation of carotid artery pulse wave velocity by Doppler ultrasonography. J Teh Univ Heart Ctr 2009; 2: 91-96.

**71. Rafati M, Mokhtari-Dizaji M, Saberi H. The effect of occlusion protocols on radial strain and arterial haemodynamics. Ultrasound 2009; 17: 144-149.

**72. Barati A H, Mokhtari-Dizaji M, Mozdarani H, BathaieS Z, Hassan Z. Treatment of murine tumor models of breast adenocarcinoma by continuous dual-frequency ultrasound. Iran J Med Phys 2009; 6: 1-12.

**73. Mokhtari-Dizaji M, Maerefat m, Rahgozar S. Estimation of pulse wave velocity using arterial parameters extracted by carotid ultrasound images. Daneshvar Med 2009; 16: 53-60.

**74. Moladoust H, Mokhtari-Dizaji M, Ojaghi-Haghighi S.Z, Noohi F. Non-invasive assessment of coronary artery stenosis with estimation of myocardial wall stress. J Teh Univ Heart Ctr 2010; 1: 29-35.

**75. Rafati M, Mokhtari-Dizaji M, Saberi H, Grailu H. Automatic measurement of carotid artery walls instantaneous changes with sequential ultrasound images. Iran J Physiol Pharmacol; 2009; 13: 308-318.

**76. Hasanzadeh H, Mokhtari-Dizaji M, Bathaie SZ, Hassan ZM. Evaluation of correlation between chemical dosimetry and subharmonic spectrum analysis to examine the acoustic cavitation. Ultrasonics Sonochem 2010; 17: 863-869.

**77. Barati A.H, Mokhtari-Dizaji M. Ultrasound dose fractionation in sonodynamic therapy. Ultrasound Med Biol 2010; 36: 880-887.

**78. Shahbazi S, Mokhtari-Dizaji M, Zarin M, Mansori M. Axial and Posterior Wall Thickness Elastic Modulus of Eyes in Age-related Macular Degeneration (ARMD) Patients Compared to Healthy Individuals Using Ultrasound Images. J Kerman Univ Med Sci, 2010; 17: 235-247.

**79. Shaykholeslami F, Rasaee M. J, Shokrgozar M.A, Mokhtari_Dizaji M, Rahbarizadeh F, Ahmadvande D. Isolation of a novel nanobody against HER-2/neu using phage displays technology. LABMEDICINE 2010, 41: 69-76.

**80. Hasanzadeh H., Mokhtari-Dizaji M., Bathaie S.Z., Hassan Z.M., Nilchiani V., Goudarzi H. Enhancement and control of acoustic cavitation yield by low level dual frequency sonication: A subharmonic analysis. Ultrason Sonochem 2011; 18: 394-400.

**81. Hasanzadeh H., Mokhtari-Dizaji M., Bathaie S.Z., Hassan Z.M. Effect of local dual frequency sonication on drug distribution from polymeric nanomicelles: In vivo study. Ultrason Sonochem 2011; 18: 1165-1171.

**82. Soleimani E, Mokhtari Dizaji M, Saberi H. Carotid artery wall motion estimation from consecutive ultrasonic images: Comparison between block-matching and maximum-gradient algorithms. J Teh Univ Heart Ctr 2011; 6: 72-78.

**83. Alamolhoda M, Mokhtari-Dizaji M, Barati A.H. Comparison the treatment effects between simultaneous dual frequency and single frequency irradiation of ultrasound in a murine model of breast adenocarcinoma. Iran J Med Phys 2011; 7: 47-59.

**84. Rahmani-Cherati T, Mokhtari Dizaji M, Vajhi A, Rostami A.R. Extraction of instantaneous changes of arterial walls with sequential ultrasound images. J Med Ultrasound 2011; 38: 81-87.

**85. Hoseini Sanati M, Torkaman G, Hedayati M, Mokhtari Dizaji M. Effect of Ga-As (904nm) and He-Ne (632.8nm) laser on the improvement of biomechanical characteristics recovery in full thickness wound. Lasers Med 2011; 7: 6-13.

**86. Shahbazi S, Mokhtari-Dizaji M, Mansori M. Non invasive estimation of ocular elastic modulus for human with age-related macular degeneration eyes by ultrasound images. Ultrasonics 2012; 52: 208-214.

**87. Hoseini Sanatia M, Torkaman G, Hedayati M, Mokhtari Dizaji M. Effect of Ga–As (904 nm) and He–Ne (632.8 nm) laser on injury potential of skin full-thickness wound. J Photochem Photobiol 2011, 103: 180-185.

**88. Miri H, Bathaie S.Z, Mohagheghi M. A, Mokhtari-Dizaji M, Shahbazfar A. A non invasive method for early detection of MNNG-induced gastric cancer of male wistar rat: Ultrasonic study. Ultrasound Med Biol 2011, 37: 780-787.

**89. Maerefat M, Mokhtari Dizaji M, Haddad Soleimani Z. Modeling of laser induced interstitial thermotherapy of laser tissue considering effect of fat melting. Iran J Biomed Eng 2009, 3: 189-198.

**90. Arab Z, Mokhtari-Dizaji M, Roshanali F, Emamdadi E. Measurement of left ventricular myocardium wall instantaneous changes with echocardiography images. J Kerman Univ Med Sci, 2012; 19: 125-138.

**91. Rezaei A, Ghanati F, Behmanesh M, Mokhtari-Dizaji M. Ultrasound potentiated salicylic acid induced physiological effects and productiob of taxol in hazelnut (corylus avellanal.) cell culture. Ultrasound Med Biol 2011; 37: 1938-1947.

**92. Mehrad H, Mokhtari-Dizaji M, Ghanaati H. Shahbazfar A.A, Mohsenifar A. Developing a rabbit model of neointimal stenosis and atherosclerotic fibrous plaque rupture. J Teh Univ Heart Ctr 2011; 6: 117-125.

**93. Soleimani H, Abdolmaleki P, Mokhtari-Dizaji M, Toliat T, Tavasoly A. The synergistic effect of doxorubicin and 150 kHz ultrasound in low intensity on tumor growth of adenocarcinoma breast cancer in BALB/c mice. Ofogh-e-Danesh 2011; 17: 5-14.

**94. Rafati M, Mokhtari-Dizaji M, Saberi H, Soleimani E. Extraction of the longitudinal movement of the carotid artery wall using consecutive ultrasonic images: A block matching algorithm. Iran J Med Phys 2011; 8: 49-59.

**95. Soleimani E, Mokhtari-Dizaji M, Saberi,H, Shams Hakimi S. Radial motion of the carotid artery wall, a block matching algorithm approach. Koomesh 2012; 13: 465-473.

**96. Rahmani-Cherati T, Mokhtari-Dizaji M, Vajhi A, Rostami A, Mehrad H, Mohsenifar A. Endothelial dysfunction in experimental atherosclerosis in the rabbit with extraction of instantaneous changes of arterial wall in sequential ultrasound images. Teh Univ Heart Ctr 2012; 7: 128-135.

**97. Alamolhoda M, Mokhtari-Dizaji M, Barati A.H, Hasanzadeh H. Comparing the *in vivo* sonodynamic effects of dual- and single-frequency ultrasound in breast adenocarcinoma. J Med Ultrasound 2012; 39: 115-125.

**98. Mehrad H, Mokhtari-Dizaji M, Ghanaati H, Shahbazfar A.A, Salehnia M. Ultrasonographic analysis versus histopathologic evaluation of carotid advanced

atherosclerotic stenosis in an experimental rabbit model. Ultrasound Med Biol 2012; 38: 1391-1403.

**99. Ebrahiminia A, Mokhtari-Dizaji M, Toliyat T. Correlation between iodide dosimetry and terephthalic acid dosimetry to evaluate the reactive radical production due to the acoustic cavitation activity. Ultrason Sonochem 2013; 20: 366-372.

**100. Yousefian B, Firoozabadi S.M, Mokhtari-Dizaji M. Comparing the effect of physical modalities on permeabilisation of cells to Bleomycin in Balb/C mice. Zahedan J Res Med Sci 2012; 14: 19-23.

**101. Soleimani E, Mokhtari-Dizaji M, Saberi H, Shams Hakimi S, Raiesdana S. Kinematics parameter extraction of longitudinal movement of common carotid arterial wall in healthy and atherosclerotic subjects based on consecutive ultrasonic image processing. Physiol Pharmacol 2012; 16: 165-178.

**102. Ebrahiminia A, Mokhtari-Dizaji M, Toliyat T. Preparation of methylene blue-containing nanoliposomes and determination of stability, biological distribution and drug release after sonication by 1 MHz ultrasound waves. Modares J Med Sci: Pathobiology 2012; 15: 11-22.

**103. Arab Z, Mokhtari-Dizaji M, Roshanali F. Extraction of left-ventricular torsion angle from the long-axis view by block-matching algorithm: Comparison with the short-axis view. Ultrasonics 2013; 53: 552-560.

**104. Bathaie SZ, Miri H, Mohagheghi MA, Mokhtari-Dizaji M, Shahbazfar AA, Hasanzadeh H. Saffron aqueous extract inhibits the chemically-induced gastric cancer progression in the wistar Albino rat. Iran J Basic Med Sci 2013 Jan; 16(1): 27-38. PMID: 23638290 [PubMed].

**105. Ebrahiminia A, Mokhtari-Dizaji M, Toliyat T. Evaluating the effects of dual frequency sonication parameters on acoustic cavitation by chemical iodide. J Kerman Univ Med Sci 2013; 20: 179-192.

**106. Moladoust H, Mokhtari-Dizaji M, Ojaghi-Haghighi S.Z. Evaluation of left anterior descending coronary artery stenosis severity from myocardial end-diastolic wall stress estimated by tissue-Doppler imaging. J Clin Ultrasound 2013; 41: 297-304.

**107. Safari M, Ghanati F, Hajnoruzi A, rezaei A, Abdolmaeki P, Mokhtari-Dizaji M. Maintenance of membrane integrity and increase of taxanes production in hazel (Corylus avellana L.) cells induced by low-intensity ultrasound. Biotechnol Lett Jun 2012; 34 (6): 1137-1141. DOI: 10.1007/s10529-012-0865-z.
74364

**108. Arab Z, Mokhtari-Dizaji M, Roshanali F. Non invasive estimation of left ventricular normalized torsion angle in healthy persons by echo tracking algorithm: Short axis view. Iran Cardivasc Res J 2011; 5: 127-133.

**109. Hasanzadeh H, Mokhtari-Dizaji M, Bathaie S.Z, Hassan Z.M, Shahbazfar A.A. Dual-frequency ultrasound activation of nanomicellar doxorubicin in targeted tumor chemotherapy. J Med Ultrasonics April 2014; 41, Issue 2: 139-150. DOI 10.1007/s10396-013-0484-x.

**110. Hasanzadeh H, Mokhtari-Dizaji M, Bathaie SZ, Hassan ZM, Shahbazfar AA. Effect of fractionation on treatment outcome in local dual-frequency sonication and Dox-encapsulated nanomicelles. J Med Ultrasonics Oct 2013; 40, Issue 4: 303-308. DOI 10.1007/s10396-013-0438-3.

**111. Arab Z, Mokhtari-Dizaji M, Roshanali F, Moladoust H. Assessment of left ventricular torsion in short axis view between healthy subjects and significant coronary artery disease patients. ZJRMS Sep 2013; 15 (9): 39-46. URL http://www.zjrms.ir/browse.php?a_code=A-10-1999-1&slc_lang=en&sid=1

**112. Mehrad H, Mokhtari-Dizaji M, Ghanaati H. Effect of high-dose atorvastatin on advanced soft atherosclerotic plaque in rabbit carotid artery using ultrasonographic and histological methods. KAUMS Journal (FEYZ) 2014; 18 (1) :9-22. URL http://feyz.hbi.ir/browse.php?a_code=A-10-176-1107&slc_lang=en&sid=1.

**113. Mobasheri M, Mokhtari-Dizaji M, Roshanali F. Estimating the myocardium's angle of three-dimensional trajectory, using the tracking of sequential two-dimensional echocardiography images. J Cardiovasc Ultrasound. Mar 2014; 22(1): 14–22. doi: 10.4250/jcu.2014.22.1.14

114. Rahmani-Cherati T, Mokhtari-Dizaji M, Vajhi A, Rostami A. Evaluation of statin therapy on en-dothelial function in hypercholesterolemic rabbits by automatic measurement of arterial wall movement using ultrasound images. Ultrasound Med Biol Oct 2014; 40(10): 2415-2424. http://dx.doi.org/10.1016/j.ultrasmedbio.2014.03.032
118162

**115. Hasanzadeh H, Mokhtari-Dizaji M, Bathaie S.Z. Detection of acoustic cavitation using subharmonic spectrum analysis. Acoust Eng Soc Iran 2014; 1 (1): 20-28.

**116. Soleimani H, Abdolmaleki P, Mokhtari-Dizaji M, Toliat T, Tavasoly A. Effect of doxorubicin with dual ultrasonic waves kHz and MHz on the adenocarcinoma tumor growth. Acoustical Engineering Society of Iran 2014; 1 (1): 20-46.

117. Soleimani E, Mokhtari-Dizaji M, Saberi, H. Extraction the axial stress of common carotid artery wall using consecutive ultrasonic image processing. Acoust Eng Soc Iran Jul 2014; 1 (2): 8-15. http://www.joasi.ir/browse.php?a_id=43&slc_lang=fa&sid=1&ftxt=1
105605

**118. Mohaqiq M, Movahedin M, Mokhtari Dizchi M, Mazaheri Z. Investigation on the effect of low intensity ultrasound stimulation on mouse spermatogonial stem cell proliferation and colonization. Anatomical Sci 2013; 10 (3):119-124.

**119. Mohaqiq M, Movahedin M, Mokhtari Dizaji M, Mazaheri Z. The effect of low-intensity pulsed ultrasound stimulation on neonate mouse spermatogonial stem cells. Modares J Med Sci: Pathobiology Summer 2013; 16 (2): 85-94.

120. Ravari ME, Mokhtari-Dizaji M, Momeni-Masuleh SH, Motiee S. Estimation of ultrasound pressure distribution due to 1 MHz ultrasonic transducer for ultrasonic treatment planning in hyperthermia methods. Acoustical Engineering Society of Iran; Apr 2015; 3 (1): 46-55. file:///D:/DATA%20MOKHTARI-92/data-1393/cv/CV%2093/tarfi%2094/paper/3.%20Ravari-joasi-v3n1p46-fa.pdf

121. Mehrad H, Mokhtari-Dizaji M, Ghanaati H. Non-invasive treatment of advanced atherosclerotic stenosis in the rabbit carotid artery using low-level combined dual- frequency ultrasonication. Feyz Oct 2014; 18(4): 292-307. file:///C:/Users/Vaio/Downloads/FEYZ-v18n4p292-fa.pdf 118170

122. Fathi M, Gharakanlou R, Abroun S, Mokhtari-Dizaji M, Rezaei R. The evaluation of cardiac changes following endurance training in male Wistar rats. Yafteh March 2014; 15 (5): 112-123.Published:2014/03/1
http://yafte.lums.ac.ir/browse.php?a_id=1499&sid=1&slc_lang=en;
file:///C:/Users/Vaio/Downloads/Yafteh-v15n5p112-fa.pdf 109130

123. Mobasheri M, Mokhtari-Dizaji M, Roshanali F. Measurement of ventricular three-dimensional torsion. J Echocardiogr. Jun 2015; 13(2): 59-65. doi: 10.1007/s12574-015-0241-9. Epub 2015 Mar 3. 118165

124. Soleimani E, Mokhtari-Dizaji M, Saberi H. A Novel non-invasive ultrasonic method to assess total axial stress of the common carotid artery wall in healthy and atherosclerotic men. J Biomech July 2015; 48(10): 1860–1867. http://dx.doi.org/10.1016/j.jbiomech.2015.04.032 118166

125. Ebrahiminia A, Mokhtari-Dizaji M, Toliyat T. Dual frequency cavitation event sensor with iodide dosimeter. Ultrason Sonochem Jan 2016; 28: 276–282. doi:10.1016/j.ultsonch.2015.07.005 118167

126. Ramezanpour M, Maerefat M, Mokhtari-Dizaji M. The effects of compliance mismatch on the End to Side bypass graft. Modares Mech Eng Aug 2015; 15(5): 279-286. http://mme.modares.ac.ir/article_12572_5169.html 111876

127. Alamolhoda M, Mokhtari-Dizaji M. Evaluation of fractionated and repeated sonodynamic therapy by using dual frequency for murine model of breast adenocarcinoma. J Therapeut Ultrasound Jun 2015; 3(10): 1-10. DOI 10.1186/s40349-015-0031-x. http://www.jtultrasound.com/content/pdf/s40349-015-0031-x.pdf 118168

128. Soleimani E, Mokhtari-Dizaji M, Saberi H, Sharif-Kashani S. A mathematical model for estimating the axial stress of the common carotid artery wall from ultrasound images. Med Biol Eng Comput 2016; 54: 1205-1215. DOI 10.1007/s11517-015-1409-1 118171

129. Masoumi H, Mokhtari-Dizaji M, Arbabi A, Bakhshandeh M. The ability of ultrasonic characterization to extract the dose distribution of MAGIC-f polymer gel. J Kerman University Med Sci Aug 2015; 22(4): 394-409. http://www.kmusjournal.ir/download.asp?code=mjku94224394 118169

130. Zaki Dizaji H, Minaei S, Tavakoli Hashtjin T, Mokhtari Dizaji M. Measurement of pomegranate fruit quality using its peel by transmitted ultrasonic technique. J Agricultural Eng 2015; 38; Summer and Autumn: 43-57. http://agrieng.scu.ac.ir/article_11274.html

131. Masoumi H, Mokhtari-Dizaji M, Arbabi A, Bakhshandeh M. Determine the dose distribution using ultrasound parameters in MAGIC-1 f polymer gels. Dose Response 2016; Feb 11;14(1): 1559325815625647. doi: 10.1177/1559325815625647.

132. Yousefian B, Firoozabadi SM, Mokhtari-Dizaji M. Sonochemotherapy of breast adenocarcinoma: An experimental in vivo model. J Ultrasound 2014 Aug 6; 18(2): 165-71. doi: 10.1007/s40477-014-0120-7.

133. Zaki Dizaji H, Minaei S, Tavakkoli Hashtjin H, Mokhtari M. Development of an ultrasonic system and evaluation of effective parameters in ultrasonic measurement of agricultural products. J Agricultural Eng Res 2009 spring; 10 (1): 27- 48. http://journals.areo.ir/article_100475_10115.html

134. Maerefat M, Mokhtari Dizaji M, Hadad Solymani Z. Modeling Of Laser Induced Interstitial Thermotherapy Of Laser Tissue Considering Effect Of Fat Melting. Iran Soc Biomed Eng 2009 Fall; 3(3): 189-197. (DOI): 10.22041/ijbme.2009.13381. http://www.ijbme.org/article_13381.html

135. Baghbani F, Moztarzadeh F, Mohandesi JA, Yazdian F, Mokhtari-Dizaji M, Hamedi S. Formulation design, preparation and characterization of multifunctional alginate stabilized nanodroplets. Int J Biol Macromol 2016 Aug; 89: 550-8.doi: 10.1016/j.ijbiomac.2016.05.033. Epub 2016 May 10.

136. Baghbani F, Moztarzadeh F, Mohandesi JA, Yazdian F, Mokhtari-Dizaji M. Novel alginate-stabilized doxorubicin-loaded nanodroplets for ultrasonic theranosis of breast cancer. Int J Biol Macromol 2016 Dec; 93(PtA): 512-519. doi: 10.1016/j.ijbiomac.2016.09.008. Epub 2016 Sep 4.

137. Baghbani F, Moztarzadeh F, Aghazadeh J, Yazdian F, Mokhtari-Dizaji M, Hamedi S. Optimization of formulation and process variables for the preparation of novel doxorubicin-loaded sonosensitive nanodroplets. J Cluster Sci 2016 Sep; 27 (5): 1519–1536. doi:10.1007/s10876-016-1020-0

138. Masoumi SH, Mokhtari-Dizaji M, Arbabi A, Bakhshandeh M. Determination of optimal gel dosimetry of the MAGIC-f and tissue mimicking composition using ultrasonic parameters in Megavoltage energy. Acoust Eng Soc Iran, Winter 2016; 3 (2) :11-22. URL: http://www.joasi.ir/article-1-74-en.html.

139. Soleimani E, Mokhtari-Dizaji M, Fatouraee N, Saberi H. Assessing the blood pressure waveform of the carotid artery using an ultrasound image processing method. Ultrasonography 2016 Sep 20. doi: 10.14366/usg.16019.

# LIST OF PRESENTATION PAPERS IN NATIONAL AND INTERNATIONAL CONGRESSES AND SEMINARS

1. Mokhtari-Dizaji M, Zahedi E, Sharafi A.A. Development of a breast phantom for ultrasonic imaging. 9th ICBME Proc, 1997: 743.

2. Mokhtari-Dizaji M. Ultrasonic tissue characterization. Proc. Application of new methods of medical imaging and radiation protection, 1999: 1-3.

3. Mokhtari-Dizaji M, Zahedi E, Sharafi A.A, Gity M. Evaluation of ultrasound in tissue characterization. EMBEC'99 Proc, 1999; 1: 666-667.

4. Mokhtari-Dizaji M, Zahedi E, Sharafi A.A, Gity M. Production of breast tissue for use in ultrasound imaging. EMBEC'99 Proc, 1999; 2: 986-987.

5. Mokhtari-Dizaji M, Zahedi E, Sharafi A.A, Gity M. Differentiation of normal and abnormal breast tissue by processing of ultrasonic images. 9th Iranian Medical Engineering Pros, 2000: 505-508.

6. Mokhtari-Dizaji M, Zahedi E, Sharafi A.A, Gity M. Tissue mimicking material in sonography. 4th Iranian Medical Physics Proc, 2000: 112-119.

7. Mokhtari-Dizaji M, Zahedi E, Sharafi A.A, Gity M. Assessment of elastic modulus in breast phantom. 4th Iranian Medical Physics Proc, 2000: 41.

8. Yoosefian B, Mozdarani H, Mokhtari-Dizaji M. Evaluation of cytogenetic effect of ultrasonotherapy (1 MHz) and BLM upon peripheral blood lymphocytes of human in $G_0$ phase. FICR 2000 Proc, 2000: 24-25.

9. Mozdarani H, Yoosefian B, Mokhtari-Dizaji M. Evaluation of cytogenetic effect of ultrasonotherapy waves upon peripheral blood lymphocytes of human in $G_0$ phase. FICR 2000 Proc, 2000: 22-23.

10. Mokhtari- Dizaji M, Mohamadi N. M, Haji-Zavar M. Designing and Production of linear - $CO_2$ laser. FICR 2000 Proc, 2000: 5.

11. Mantegi F, Sharafi A. A, Mokhtari-Dizaji M. Quality control of real time ultrasonography in Iran. FICR 2000 Proc, 2000: 83.

12. Mokhtari- Dizaji M, Taghi A, Sharafi A. A. Design and setting up ultrasound Doppler string phantom. 10th ICBME Proc, 2000: 557.

13. Mokhtari-Dizaji M, Zahedi E, Sharafi A.A, Gity M. Evaluation of Young modulus and presentation of new discriminant functions in diagnosis of normal and abnormal breast tissue by ultrasound. 10th ICBME Proc, 2000: 277-278.

14. Vahed M, Mokhtari-Dizaji M, Gity M. Potentiol of attenuation coefficient of ultrasound in differentiation of normal breast tissue, benign and malignant. International Iranian of Cancer Proc, 2000: 166-167.

15. Mokhtari-Dizaji M, RaisDanaii M, Gity M. Estimation and comparison of elastic modulus of normal breast, microcalcification and fibrocystic lesions by ultrasound non-invasively. ICBME80 Proc, 2000: 1-7.

**16. Mokhtari-Dizaji R, Chapman R, Kirlin L, Mokhtari- Dizaji M. A cross- relation matched field inversion for geoacoustic parameter estimation. CCECE 2001 Proc, 2001: 13-16.

17. Kashef N, Behzadian-neghad G, Mokhtari-Dizaji M, Satari M. evaluation of ultrasound waves on ATCC 27853 at *in vitro* conditions. 4th conference in microbiology Proc, 2001: 106.

18. Mokhtari-Dizaji M, Safavi K, Ezati-Zade H. Setting up $CO_2$ laser. FICMP'02 Proc, 2002: 115-116.

**19. Nikanjam N, Mokhtari-Dizaji M, Saberi H, Zahedi M. Presentation of non-invasive method for estimation of static pressure changes in wall vessel with usage ultrasound. FICMP'02 Proc, 2002: 79-80.

20. Raisdanaii M, Mokhtari-Dizaji M, Gity M. Evaluation of discriminant functions of normal breast tissue from fibrocystic and microcalcification lesions by elastic parameter. FICMP'02 Proc, 2002: 47-48.

21. Vahed M, Mokhtari-Dizaji M, Gity M. Evaluation of temperature effect on velocity of ultrasound waves in malignancy, benign and normal breast tissue. FICMP'02 Proc, 2002: 39-40.

22. Kashef N, Behzadiannejad G, Mokhtari-Dizaji M, Satari M. Evaluation of continuous theraputic ultrasound waves on ATCC27853 growth in condition of *invitro.* FICMP'02 Proc, 2002: 127-128.

23. Narimani R, Irajizad A, Mokhtari-Dizaji M. Designing a foot pressure distribution system. FICMP'02 Proc, 2002: 93-94.

24. Mokhtari-Dizaji M. Evaluation of optical characterization of fiber optic system after laser therapy of prostate. Application of laser in medicine and medical engineering Proc, 2002: 70-77.

25. Nikanjam N, Mokhtari-Dizaji M, Saberi H B. Estimation of the static pressure –strain elastic modulus of human carotid artery under normal and atherosclerotic conditions using ultrasound. Iranian Heart J, 2002; Supplement 3: 176.

26. Mokhtari-Dizaji M, Mokhtari-Dizaji R. Detection of internal displacement of tissues in ultrasound images using image registration technique. IEEE Canadian Conference on Electrical and Computer Engineering Proc, 2002:1145-1149.

27. Nikanjam N, Mokhtari-Dizaji M, Saberi H. Estimation of the static pressure –strain elastic modulus of human carotid artery under normal and atherosclerotic conditions using ultrasound. 13th congress of Iranian heart association in collaboration with the University of Vienna, 2002, Supplement 3: p267.

28. Mokhtari-Dizaji M, Taghi A, Sharafi A. A, Kazemnejad A. Measurement of acoustic parameter in Doppler ultrasound systems (3.5 MHz) using string phantom. EMBEC'02 Proc, 2002; 2: 876-877.

29. Mokhtari-Dizaji M, Zahedi E, Gity M, Danaii M. R. Evaluation of discriminant analysis differentiation of elasticity of normal breast tissue from breast lesions. EMBEC'02 Proc, 2002; 2: 1144-1145.

30. Mokhtari-Dizaji m, Zahedi E, Gity m, Ahmadinejad N, Sharafi A. A, Mahoor M. Evaluation of optical flow technique on detection of internal displacement of tissue in ultrasound images. 2th MVIP Proc, 2003, 2: 351-355.

31. Mokhtari-Dizaji M. Design and setting up of motor control system of cornea topography. 6th Optometry Congress of Iran Proc, 2003: 37-39.

32. Hasanzade J, Mokhtari-Dizaji M, Jabarvand M, Zarin M, Jafarzade A. Loading system for produce of displacement in eye tissue of rabit. 6th Optometry Congress of Iran Proc, 2003: 40-41.

33. Nikanjam N, Mokhtari-Dizaji M, Sabari H, Hajizade S. Measurement of static pressure changes in wall carotid artery using Bernouli principle. 16th of congress of Physiology and Pharmacology Proc, 2003:329.

34. Nikanjam N, Mokhtari-Dizaji M, Estimation of carotid static pressure gradients under normal and atherotic conditions using Bernoulli principle. World Congress on Medical Physics and Biomedical Engineering Proc, 2003. Rec: 890.

35. Khooshkar A, Mareft M, Mokhtari-Dizaji M, A non invasive method to estimate arterial elastic modulus by mean of assessment of local formulation using ultrasound technique. World Congress on Medical Physics and Biomedical Engineering Proc, 2003. Rec: 97.

36. Mokhtari-Dizaji M, Shahim S. Optimizing of string phantom for evaluation of Doppler ultrasound systems. World Congress on Medical Physics and Biomedical Engineering Proc, 2003. Rec: 1556.

37. Nikanjam N, Mokhtari-Dizaji M, Estimation of stiffness of carotid artery with new and invasively method in normal and atherosclerosis women using Doppler ultrasound. 3 th of congress of ISCS Proc, 2003: Rec: 10.

38. Mokhtari-Dizaji M, Jadidi M, Ultrasonic new methods in bone densitometry. 19 th of Annual Congress of Radiology Proc, 2003: 53-54.

39. HasanKhani H, Mohamadi E, Moazemi F, Mokhtari-Dizaji M. The effect of injection of serum temperature in ……., Congress of Nursing care in Surgery Proc, 2003: 16.

40. Kashef N, Behzadian-nejad G, Mokhtari-Dizaji M, Sattari M. The effect of simultaneous of therapeutic ultrasound and ceftazidime on growth of Pseudomonas aeruginosa. 13 th European Congress of Clinical in Microbiology and Infectious Diseases Proc, 2003, 9: 1518.

41. Mokhtari-Dizaji M, Hasanzade J, Jabarvand M, Zarin M. Estimation of elastic modulus in normal orbit using ultrasound methods. 6 th Iranian congress of Medical Physics Proc, 2004: 63.

42. Abdolmaleki P, Mokhtari-Dizaji M, Vahed M, Gity M, Applying artificial neural network in discrimination of benign and malignant patterns of breast lesions using ultrasound parameters. 6th Iranian congress of Medical Physics Proc, 2004: 66.

43. Bitarafan A, Rajabi H, Mokhtatri-Dizaji M, Rastgoo F, Hekmat S, Yagobi N, Firozabadi H. The effect of filtration and construction methods to ejection fraction in ECG-gated SPECT images and comparing to echocardiography and angiography. 6 th Iranian congress of Medical Physics Proc, 2004: 32.

44. Mokhtari-Dizaji M, Rahmani T, Montazeri M. Common carotid intimal-media thickness and blood flow velocities in severe and mild atherosclerotic stenosis. 6 th Natinal congress on Cardiovascular update Proc, 2004: 24.

45. Shahim S, Fallah H, Mokhtari-Dizaji M. Mean frequency estimation of Doppler signals and application to blood velocity waveform estimation. IFMBE Proc, 2004, 7: 381-384.

46. Nikanjam N, Mokhtari-Dizaji M. A non invasive method to estimate distensibility of the common carotid artery in women by means of Doppler ultrasound. IFMBE Proc, 2004, 7: 385-388.

47. Dadras M, Mokhtari-Dizaji M, Larijani B. Influence of soft tissue around the bone mineral density. 1 th International Seminar on Prevention, Diagnosis and treatment of Osteoporosis Proc. 2004: 103.

48. Dadras M, Mokhtari-Dizaji M, Larijani B. Effect of bone thickness on bone mineral density. Iran J Endocrin. Metabolism 2004, 6; Supplement: S25.

49. Zargari Asl1 H, Mokhtari-Dizaji1 M, Yaghoobi1 N, Bitarafan1 A. Automatic calculation of left ventricle mid-wall strain in cardiac phases from myocardial gated perfusion SPECT. 14th congress of Iranian heart association in collaboration with British cardiac society. 2004, supplement 4: p266.

50. Movahedin M, Morteza-zade F, Mokhtari-Dizaji M. The effects of association of ultrasound therapy with testosterone treatment on structure of mouse testis. 11th Annual Meeting of the Middle East Fertility Society, Dead Sea, Jordan, 2004; Proceeding of MEFS Proc, 2004: 88.

51. Abdolmaleki P, Mokhtari-Dizaji M, Montazeri M, Saberi H, Nikanjam N. Applying the logistic regression model to predict the carotid artery stenosis using the sequential color Doppler ultrasound image processing. 3rd MVIP Proc, 2005,1: 313-317.

52. Mortezazadeh F, Movahedin M, Mokhtari-Dizaji M. Dose ultrasound irradiation to the testis of testosteron treated mouse cause structural changes? 13th world congress on in vitro Fertilization, Assisted Reproduction and Genetics, Istanbul, Turkey, Proc, 2005: 10.

53. Mokhtari-Dizaji M, Dadras MR, Larijani B, Torkaman G, Kazem-nejad A. Bone mineral density in relation to fractural analysis by biomechanical properties. IFMBE Proc, 2005: 9: 287-288.

54. Mokhtari-Dizaji M, Rahmani T, Gity M. Effects of atherosclerotic stenosis of right common carotid artery on elasticity of femoral artery. 17th Iranian congress in physiology and pharmacology, 2005: 172.

**55. Mokhtari-Dizaji M, Saberi H. Differentiation of mild and severe stenosis by motion estimation algorithm in the sequential color Doppler ultrasound images. 4th Int Congress ISCS; 2005: 87.

56. Rahmani T, Mokhtari-Dizaji M, Gity M, Kazemnejad A. Estimation of local elasticity of femoral artery using Doppler ultrasonography. 12th ICBME2005, 2005: 1025-1030.

57. Yousefi-Diba AA, Mokhtari-Dizaji M, Larijani B, Salehnia M, Torkaman G.The effect of low level laser (30 mW and 830 nm) in bone repair. 2th ICBME2005, 2005: 991-996.

58. Zargari H, Mokhtari-Dizaji M, Bitarafan A, Yaghoubi N. Automated calculation of left ventricle mild wall strain in cardiac phases from myocardial gated perfusion SPECT. 9th Iranian congress of Nuclear Medicine, 2005: 181.

59. Mokhtari-Dizaji M, Dadras M R, Larijani B, Torkaman G. Quantitative ultrasound to predict the mechanical properties of bone. 3th EMBEC'05; IFMBE Proc 2005; 11, 1: 172-173.

60. Moladoust H, Mokhtari- Dizaji M, Ojaghi-Haghighi Z, Noohi F, Jalalian R, Gerailo H. Evaluation of regional displacement in myocardium muscle during heart cycle based on mathematical analysis of TDE images. Iran J Radiol, 2006; Supp 1: 6.

61. Mokhtari-Dizaji M, Yousefi-Diba A A, Larijani B, Salehnia M, Torkaman G. The effect of laser therapy of 30mW on bone repair: Histological study. Emirates Physiotherapy Conf, 2006: 104.

62. Gorji-Ara T, Mokhtari-Dizaji M, Ghanaeati H. Examination of relation between temperature increasing and diameter of thermal ablation with changes of laser's power in liver thermotherapy: in vitro study. 3th Congress of Military Medicine, 2006: 254.

63. Yousefi-Diba A A, Mokhtari-Dizaji M, Larijani B, Torkaman G. The effect of LLLT in bone repair by measurement of AD-SOS: non invasive study. 3th Congress of Military Medicine, 2006: 250-251.

64. Moladoust H, Mokhtari-Dizaji M, Ojaghi-Haghighi Z, Noohi F, Jalalian R, Khaledifar A, Grailu H, Bitarafan A. Regional Myocardium Radial Strain Assessment of the Interventricular Septum by use of new proposed algorithm. 7th congress on Internal Diseases, 2006: 144-145.

65. Moladoust H, Mokhtari-Dizaji M, Ojaghi Z, Noohi F, Khaledifar A, Jalalian R, Grailu H. Estimation of regional displacement in myocardium muscle during heart cycle based on mathematical analysis of TDE images. World Congress of Med Phys and Biomed Eng; (Seoul 2006); IFMBE Proc. 14: 2519-2521.

**66. Rahmani T, Mokhtari-Dizaji M, Gity M. Association of atherosclerosis in carotid artery with elastic modulus of brachial artery. 1th Human, Life and Radiation Conference, Journal of Rafsanjan Medical Sciences University; 2006; 5: P107.

67. Mokhtari-Dizaji M, Montaseri A, Akhlaghpour S, Alinaghizadeh M R. Non invasive monitoring of liver tissue temperature using relative brightness changes in ultrasound images. MVIP2007 Proc.; 2007, Iran, Mashhad: 75-80.

68. Moladoust H, Mokhtari-Dizaji M, Ojaghi-Haghighi Z, Noohi F, Jalilian R, Gerailo H. Evaluation of interventricular septum wall thickness in 2D echocardiographic images based on intensity profile threshold. 7th Iranian Congress of Medical Physics Proc., 2007, Iran, Ahvaz: 89-90.

69. Mokhlesian N, Mokhtari-Dizaji M, Sharafi A A, Larijani B. Correlation between depth dose of critical organs of thyroid and uterus of phantom based on surface dose exposed with Dual X-ray absorptiometery with pencil beam: in vitro study. 7th Iranian Congress of Medical Physics Proc., 2007, Iran, Ahvaz: 69-70.

70. Shahbazi S, Mokhtari-Dizaji M, Zarin M, Mansori M. Non invasive estimation of human normal orbit elastic modulus using ultrasound images: Age and sex. 6th congress of Khorasan Optometery, 26-27 April 2007: 17.

71. Mokhtari-Dizaji M□, Gity M, Kalbasi-Anaraki M. Estimation of lateral elastic modules for detection of lesions in breast tissue using ultrasongraphy. J Biomechanics 2007; 40; 263.

72. Montaseri A, Mokhtari-Dizaji M, Akhlaghpour S, Alinaghizadeh M R. An investigation of brightness changes in ultrasound images due to variations of temperature in liver tissue during ex vivo and in vivo radiofrequency ablation. European Congress of Radiology (ECR2007), March 9-13, Austeria, 2007, C547: 444.

73. Mokhtari-Dizaji M, Rahmani-Cherati T, Gity M. Association of atherosclerosis in carotid artery with elastic modulus of brachial artery. Atherosclerosis supplements 2007; 8: 138.

74. Mokhtari-Dizaji M, Gorji-Ara T, Ghanaeati H, Kalbasi M. Ultrasound monitoring of temperature change in liver tissue during LaserThermotherapy: 10°C intervals. Proc of the 29th Annual International Conferences of the IEEE EMBS Cite Internationale, Lyon, France, 2007; FrP1B5.1: 2130-2133.

75. Rafati1 M, Mokhtari-Dizaji M, Saberi H. The effect of obstruction artery cuff on the radial strain of brachial artery: Definition of optimum cuff position. 18th Iranian Congress of Physiology and Pharmacology, Mashhad-Iran 2007; 214.

76. Moladoust H, Mokhtari-Dizaji M, Ojaghi-Haghighi S Z, Shahrokh S. Non invasive assessment of left ventricular blood pressure by mathematical transformation of radial oscilometric pressure. 18th Iranian Congress of Physiology and Pharmacology, Mashhad-Iran 2007; 163.

77. Shahbazi S, Mokhtari-Dizaji M. Zarin M, Mansori M. Noninvasive evaluation of healthy human choroids and sclera eye maximum fractional strain by ultrasound imaging. 18th Iranian Congress of Physiology and Pharmacology, Mashhad-Iran 2007; 164.

78. Moladoust H, Mokhtari-Dizaji M, Noohi F, Ojaghi-Haghighi Z, Khajavi A. Assessment of the reginal myocardial displacement by a new method using spectral tissue Doppler in compare with the tissue tracking. Proceeding of the 5th International Symposium on Image and Signal Processing and Analysis 2007; Istanbul, Turkey: 316-325.

79. Barati A H, Mokhtari-Dizaji M, Mozdarani H, Bathaie S H, Hassan Z M. Evaluation of acoustic inertia cavitation in treatment of murine tumor model of breast adenocarcinoma.1th Conference on Application of Nanotechnology in Sciences, Engineering and Medicine, 2008; Mashhad: 54.

80. Mokhtari-Dizaji M, Yousefi-Diba A, Larijani B, Salehnia M, Torkaman G, Dadras M R, Hamidi Z, Adibi H, Kazemnejad A. The effect of Low Level Laser Therapy on bone repair: Ultrasound study. 6th International Physical Education and Sports Sciences Congress 2008, Kish Island: 80-82.

81. Barati A H, Mokhtari-Dizaji M, Mozdarani H. The effect of fractionation and repetition of sonodynamic therapy method on the control of murine breast tumor growth in Balb/C mice. The 6th ICRSA, April 2008: 51.

82. Shahbazi S, Mokhtari-Dizaji M. Zarin M, Mansori M. An experimental study of the elastic properties in patients with age related macular degeneration (ARMD) and healthy human's eye. The 6th ICRSA, April 2008: 93.

83. Moladoust H, Mokhtari-Dizaji M, Ojaghi-Haghighi Z, Noohi F, Jalalian R, Khaledifar A, Grailu H. Regional myocardium radial strain assessment of the interventricular septum by use of new proposed algorithm. 14th Biennial Conference for the Canadian Society for Biomechanics.
August 16-19, 2006. Department of Kinesiology, University of Waterloo.

84. Zaki Dizaji H, Minaei S, Tavakoli H, Mokhtari-Dizaji M. Evaluation of ultrasonic indexes of pomegranate fruit for determination of quality. 18th National Congress on Food Technology. 2008; 89.

85. Zaki Dizaji H, Minaei S, Tavakoli H, Mokhtari-Dizaji M. An ultrasonic investigation of agricultural product quality. 5th National Conference on Agr. Machinery Eng Mechanization 2009: 77.

86. Rafati M, Mokhtari-Dizaji M, Saberi H, Grailu H. Automatic measurement of carotid artery wall changes with ultrasound images. 15th Iran Conf Biomed Eng 2009: 50.

87. Moladoust H, Mokhtari-Dizaji M□, Ojaghi-Haghighi Z, Noohi F, Khajavi A, Kazemnejad A. Noninvasive regional quantification of myocardial end-diastolic wall stress: A comparative study. 3rd Middle East (Iran-Arab) Cardiovascular Congress, March 12-15, 2009, Kish- Iran: ID 383.

88. Shahbazi S, Mokhtari-Dizaji M, Zarin M, Mansoori M. Non invasive estimation of elasticity of wall posterior wall of normal eyes and RAMD patients. 8th Congress of Khorasan Optometry 2009: 20.

89. Moladoust H, Mokhtari-Dizaji M□, Ojaghi-Haghighi Z, Mirdamadi A, Khajavi A. Noninvasive quantification of myocardial wall stress using tissue Doppler imaging. 16th ICMP 2008; Dubai: 64.

90. Mokhtari-Dizaji M, Gity M, Gorjiara T. Lateral elastic modulus of breast tissue and lesions using ultrasonography. 3th International Congress of Breast Cancer 2008; Tehran: 131-132.

91. Moladoust H, Mokhtari-Dizaji M, Ojaghi-Haghighi Z, Noohi F, Bitarafan A, Khajavi A. Assessing the discriminatory power of noninvasive quantification of myocardial end diastolic wall stress. WC2009; 2009, IFMBE Proceedings 25/IV: 2085-2088.

92. Rafati M, Mokhtari-Dizaji M, Saberi H. Different arterial occlusion protocols on the radial strain of arterial wall. WC2009; 2009, IFMBE Proceedings 25/IV: 1490-1493.

93. Arab Z, Mokhtari-Dizaji M, Roshanali F, Moladoust H, Emamdadi E. Automatic measurement of left ventricular torsion instantaneous changes with echocardiograghy images: Block matching algorithm. 4rd Middle East (Iran-Arab) Cardiovascular Congress, March 12-15, 2009, Kish- Iran: ID 350.

94. Hasanzadeh H, Mokhtari-Dizaji M, Bathaie S.Z, Hassan Z.M, Miri H.R, Allamolhoda M, Nilchian V. Effect of local sonication on biological distribution of micellar Doxorubicin: In vivo study. Proc 3rd IUMS Conf Applicat Nanotechnol Med Biomed Sci, Feb 2010; Tehran-Iran: 89-90

95. Hasanzadeh Namaghi H, Mokhtari-Dizaji M, Bathaie S.Z, Hassan Z.M, Alamolhoda M, Nilchiani M, Goudarzi H, Miri H.R. Comparison of subharmonic spectrum analysis and chemical
dosimetry in measurement of cavitation activity. 9th Iran Med Phys Cong, May 2010; Tehran-Iran: 65.

96. Shaykholeslami F, Rasaee M. J, Shokrgozar M.A, Mokhtari_Dizaji M, Rahbarizadeh F, Ahmadvande D. Photothermal treatment of SK-Br-3 cell line using gold-silica nanoshells conjugated to anti-human epidermal growth factor receptor -2(HER-2) nanobody. 6th National Biotechnology Congress of Irany 13-15 Aug 2009; Tehran-Iran: 1-8.

97. Alamolhoda M, Mokhtari-Dizaji M, Barati A.M, Hasanzadeh H. Evaluation of sonodynamic therapy of 1MHz ultrasound waves with hematoporphyrin sonosensitizer: In vivo study. 9th Iran Med Phys Cong, May 2010; Tehran-Iran: 12.

98. Alamolhoda M, Mokhtari-Dizaji M, Barati A.M, Hasanzadeh H. Investigation of anticancer effect of hematoporphyrin by using sonodynamic therapy on breast adenocarcinoma. 3th Breast cancer congress, Jul 2010, Tehran, Iran: 66-67.

99. Hasanzadeh H, Mokhtari-Dizaji M, Bathaie S.Z, Hassan Z.M, Miri H.R, Allamolhoda M, Nilchian V, Goudarzi H. Effect of local dual frequency sonication on drug distribution from nanomicelles. World Academy of Sciences, Engineerig and Technology (WASET) 2010, 70: 619- 623.

100. Arab Z, Mokhtari-Dizaji M, Roshanali F. Alternation of systolic left ventricular torsion in short axis view after atherosclerotic stenosis of LAD coronary artery. 5rd Middle East (Iran-Arab) Cardiovascular Congress, Feb 23-25, 2010, Kish- Iran: ID 660.

101. Soleimani E, Mokhtari Dizaji M, Saberi H, Shams Hakimi S. Longitudinal movement of the carotid artery wall in healthy and atherosclerotic subjects: A first report. 5rd Middle East (Iran-Arab) Cardiovascular Congress, Feb 23-25, 2011, Kish- Iran: ID 661.

102. Arab Z, Mokhtari-Dizaji M, Roshanali F, Moladoust H, Emamdadi E, Bitarafan A, Grailu H. Evaluation of Biomechanical behaviour of Myocard in echocardiographic sequential images. 17th Iranian Conference on Biomed eng, Nov 3-4, 2011, University of Esfahan Medical Sciences: 1-4.

103. Miri H, Bathaie S.Z, Mohagheghi M. A, Mokhtari-Dizaji M, Hassanzade H, Ashori M.R. Preventing effect of saffron carotenoids (crocin and crocetin) on animal model of stomatch cancer. National Saffron Congress, Drug and Food 2009: 22.

104. Miri H, Bathaie S.Z, Mohagheghi M. A, Mokhtari-Dizaji M, Hassanzade H, Ashori M.R. Preventing effect of saffron carotenoids (crocin and crocetin) on animal model of stomatch cancer. 10th Iran Congress Biochem and 3th Int Congress Biochem Mol Biol Nov 2009; Tehran: S142.

105. Soleimani E, Mokhtari Dizaji M, Saberi H, Shams Hakimi S, Raesdana S. Diagnostic qualification preferment of vascular problems with automated processing of sequential ultrasound images. 4Th Iran Conf E-Health ICT Applicat Med Sci; March 2011, Mashhad Azad University: 44.

106. Arab Z, Mokhtari-Dizaji M, Roshanali F. Assessment advantage of myocardium movement in longitudinal axis view in comparison with short axis view. 1st MEFOMP Int Conf Med Phys; Shiraz Iran; J Biomed Phys Eng 2011; 1: S52-S53.

107. Samanipoor R, Maerefat M, Mokhtari M. Improving the accuracy of focal point in HIFU treatment by optimizing of the shape of the transducer array in HIFU probe. 1st MEFOMP Int Conf Med Phys; Shiraz Iran; J Biomed Phys Eng 2011; 1: S232-S233.

108. Mokhtari-Dizaji M, Hasanzadeh H, Bathaie S.Z, Hassan Z.M, Nilchian V, Goudarzi H. Local dual frequency sonication on drug distribution from polymeric nanomicells. Iranian Controlled Release Conference (ICRC2011), Mashhad, Iran: 51.

109. Arab Z, Mokhtari-Dizaji M, Roshanali F. Assessment of left ventricular torsion in long axis view. ISB2011 Brussels-Belgium; 2011: 71-72.

110. Hasanzadeh H, Mokhtari-Dizaji M, Bathaie S.Z, Hassan Z.M. Tumor chemotherapy by nanosized Doxorubicin carrier and dual frequency ultrasound. Proceedings of the 2nd International Conference on Nanotechnology: Fundamentals and Applications; Ottawa, Ontario, Canada; 2011: 78-83.

113. Samanipoor R, Maerefat M, Mokhtari-Dizaji M, Zolfaghari A. Destruction of cancerous tissue using high intensity focus ultrasound. 18th Iran Conf Biomed Eng 2011; 14 Dec: 113.

111. Hasanzadeh H, Mokhtari-Dizaji M, Bathaie S.Z, Hassan Z.M, M, Nilchian V, Goudarzi H. Evaluation of targeted therapy of adenocarcinoma tumor with nanosized Doxorubicin carrier and dual frequency sonication. 2nd Nanodrugs Congress 2012; Ahvaz: 30.

112. Soleimani H, Abdolmaleki P, Mokhtari-Dizaji M. combination of ultrasound waves and sonosensetizer liposome Doxorubicin content on adenocarcinoma breast tumor growth in BALB/c mice. 2nd Nanodrugs Congress 2012; Ahvaz Iran: 49.

113. Ebrahiminia A, Mokhtari-Dizaji M, Tolyat T. Effect of dual frequency ultrasound waves on acoustic cavitation using iodide chemical dosimeter. Second Non Ionizing Radiation Safety Conference; SNIRSO 2012; Shiraz Iran: 31.

114. Rafati M, Mokhtari-Dizaji M, Saberi H, Grailu H. Noninvasive cardiovascular screening of competitive athletes by automated measurement of carotid arterial walls changes. Roma XXXII World Congress of Sports Medicine 2012; September Rome, Italy: 30.

115. Ebrahiminia A, Mokhtari-Dizaji M, Tolyat T. Release of methylene blue containing nanoliposomes by ultrasound waves in breast adenocarcinoma tumor. 5 th Tehran Breast Cancer Conference, Abstract book, Iran J Breast Diseases 2013: 54-55.

**116. Alamolhoda M, Mokhtari-Dizaji M, Barati A.M, Hasanzadeh H. Investigation of sonodynamic effect of 150 kHz ultrasound with hematoporphyrin in in vivo on breast adenocarcinoma tumor. 6 th BCRC Breast Cancer Congress 2013; 6-7 Nov: 183-184.

**117. Soleimani E, Mokhtari Dizaji M, Saberi H. Computerized analysis of Doppler pulse spectrum in healthy and atherosclerosis subjects. 6 th Razavi international Cardiovascular Congress 2013, 21-23 Aug: 197-198.

**118. Mokhtari-dizaji M, Ravari ME, Momeni SH, Motiee S. Modelling of acoustical pressure due to ultrasound exposure for estimation of thermal distribution map in biological environment. 2 th Seminar on the developments in electrotherapy. 2014, 9-10 Jan: 41-42.

**119. Soleimani E, Mokhtari Dizaji M, Nasser Fatouraee, Saberi H. A purely ultrasonic method to extract the arterial blood pressure waveform. International Congress on Cardiac Emergencies2014, Bandar Abas Feb 19-21: 69.

**120. Mobasheri M, Mokhtari Dizaji M, Roshanali F. Estimating the myocardium's angle of three dimentional trajectory using the tracking of sequential two dimensional echocardiography images. The second Iranian Cardiovascular Joint Congress 2014, Feb 25-28, Tehran, Iran: 58.

**121. Masomi H, Mokhtari Dizaji M, Arbabi A, Bakhshandeh M. Assessment of absorbed dose using ultrasound parameters and parameter of R2 (MRI) in MAGIC-f polymer gel with and without gold nanoparticles using Megavoltage energy. Optimization in Radiotherapy 2014 Mashhad, Iran, May 4-5: S2T3.

122. Zaki Dizaji H, Minaei S, Mokhtari M, Tavakkoli Hashtjin T. Development of an ultrasonic device for investigation of agricultural product quality. 6th International Postharvest Symposium 2009, Antalya, Turkey, Jan 1-4: 5.

**123. Soleimani E, Mokhtari Dizaji M, Nasser Fatouraee, Saberi H. An ultrasonic-based mathematical model for assessing the viscoelastic properties of the arterial wall. The 5th Iranian Conference on Bioinformatics 20-22 May 2014: Institute of Biochemistry and Biophysics (IBB), University of Tehran: 731-733.

124. Ebrahiminia A, Mokhtari-Dizaji M, Toliyat T. Methylene blue-containing nanoliposomes biological distribution and release after dual frequency sonication. The 2014 symposium on Piezoelectricity , Acoustic waves and Device application 2014; Beijing, Chine; 30 Oct-2 Nov., Paper No. E10: 194.

125. Ravari ME, Mokhtari M, Momeni Masuleh, Motiee S. Effect of physical parameters of the ultrasonic transducer on thermal - dose parameter of breast cancer in hyperthermia method: Using murine model of breast adenocarcinoma. 7 th International Tehran Breast Cancer Congress 21th--24th Sep 2014; 2: 173-174.

126. Tamadon M, Mokhtari Dizaji M, Salouti M. Investigation the photothermal treatment effectiveness of murine breast adenocarcinoma tumor, in the presense of gold nanorods. 1st International and 8th Annual Tehran Breast Cancer Congress 28th- 30th Oct 2015, Tehran: 194.

127. Ghorbani S, Mokhtari-Dizaji M, Ayoobi-Yazdi N. The algorithm of maximum gradient for extraction of biomechanical behavior of renal and abdominal aorta arterial walls with consecutive ultrasound images. 4 th International Preventive Cardiology Congress 30th Sep-2th Oct 2015; Shiraz, Iran. Int Cardovasc Res J 2015; 9(4): 118.

128. Soleimani E, Mokhtari-Dizaji M, Fatouraee N, Saberi H. Comparison of viscoelastic parameters changes in normal and atherosclerotic common carotid arteries. 4 th International Preventive Cardiology Congress 30th Sep-2th Oct 2015; Shiraz, Iran. Int Cardovasc Res J 2015; 9(4): 204.

129. Tamadon M, Mokhtari Dizaji M, Salouti M. Increase of the photothermal effect of laser light selected by the Monte Carlo simulation: Using gold nanoparticles. Asian Nano Forum Conference 8th-11th March 2015, Kish Island, Iran: 277.

130. Mohammad-Karim AR, Mokhtari-Dizaji M, Kazemian a, Saberi H.Evaluation of the possible narrowing of the carotid artery of patients undergoing external radiation therapy of head and neck by color Doppler ultrasonography. 26th Annual Congress of Cancer Institute of Iran 27th-28th Nov 2015, Tehran: 95.

131. Gorji-Ara T, Mokhtari-Dizaji M, Ghanaeati H, Estaji M. The effect of carbonization region in damage size due to Laser interstitial thermotherapy of liver tissue. Laser in Medicine Congress 2016 Feb Tehran: 18-19.

132. Yousefi-Diba AA, Mokhtari-Dizaji M, Torkaman G. The effect of low power laser in damaged bone healing: Bone stiffness measurement. Laser in Medicine Congress 2016 Feb Tehran: 89-90.

132. Goleh Z, Mokhtari-Dizaji M, Tolyat T. The effect of ultrasound waves on talydomid antiangiuogenes drug function in murine breast adenocarcinoma tumor. The first National Congress of Integrative Oncology 2016 Feb Tehran: 142.

133. Javaherinejad S, Mokhtari-Dizaji M, Ganati F. Evaluation of biodistribution of nanogold particles in murine breast adenocarcinoma tumor. he first National Congress of Integrative Oncology 2016 Feb Tehran: 106.

134. Khodadadi M, Mokhtari-Dizaji M, Torkaman G. Ultrasound waves in bone healing. 19 th Annual Iranian Congress of Physical Medicine, Rehabilitation and Electrodiagnosis 2016 Feb; Tehran: 107.

135. Poshtmahi S, Mokhtari-Dizaji M, Torkaman G. Effect of ultrasound in produce collagen and measure skin thickness by transducer 40 MHz. 1 th International Congress on Medicine, Public Health and Biological Sciences 2016; 1.

136. Masoumi SH, Mokhtari-Dizaji M, Arbabi A, Bakhshandeh M. Radiation sensitivity of MAGIC-F polymer gel by gold nanoparticles. 2nd Internatinal Conference on Research in Engineering, Science and Technology 2016 March; Istanbul: 1-4.

137. Goharpay N, Mokhtari-Dizaji M, Bakhshandeh M. Fitting of calibration curve on dose-ultrasound response of polymer gels. 2nd Internatinal Conference on Research in Engineering, Science and Technology 2016 March; Gorjestan: 21-25.

138. Javaherinejad S, Mokhtari-Dizaji M, Ganati F. Synergestic effect of hypertermia in the presence of gold nanoparticles with Ultrasonic waves on the growth reduction of breast adenocarcinoma in Balb/c mouse model. 6 th International Conference on Nanostructures (ICNS6) 2016, March, Kish: 187-189.

139. Poshtmahi S, Mokhtari-Dizaji M, Torkaman G. Second and third degree burns using the formula Hendrix and compare data with burn marks. 2nd Internatinal Conference on Research in Engineering, Science and Technology 2016 March; Gorjestan: 187-189.

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## PATENTS

1. Zaki Dizaji H, Mokhtari Dizaji M,

2. Hassanzadeh H, Mokhtari Dizaji M, Bathaie S.Z, Hassan Z.M, Nilchian V. Continuous and pulsed ultrasound system with 28 kHz frequency for drug release from nanoparticles and increasing of local drug uptake: in vivo study. No 67283; 2010.

3. Bathaie S.Z, Miri H, Hoshyar R, Eshraghi M, Sajadi M, Mokhtari M, Mohagheghi M.A. Crocetin as effective drug in treatment and prevention of cancer. No. 72961; 2012.

4. Bathaie S.Z, Hoshyar R, Miri H, Eshraghi M, Sajadi M, Mokhtari M, Mohagheghi M.A. Crocine as effective drug in treatment and prevention of cancer. No. 72961; 2012.

Book

1. W R Hedrick, D L Hykes, D E Starchman. Ultrasound Physics and Instrumentation. Translated by Manijhe MokhtariDizaji, Effat Soleimani. Etminan pub, www.etminanpub.com. May, 2015.

2. B M Lempriere. Ultrasound and Elastic waves. Translated by Manijhe MokhtariDizaji, Effat Soleimani. Tarbiat Modares University Press, May 2016.

## COURSES TAUGHT

**A. Undergraduate**

1. Sound and Audiometry
2. Applied Physics
3. Medical Physics
4. Radiology
5. Biochemistry and Biophysics
6. Medical Engineering
7. Mechanical Physics
8. Electromagnetic fields

**B. Graduate (M.Sc.)**

1. Biophysics
2. Diagnosis of Ultrasound
3. Ultrasonotherapy
4. Bioelectricity
5. High Frequency Currents
6. Laboratory Instruments
7. Biology
8. Light and Visual Physics
9. Medical Physics
10. Laser
11. Biophysics
12. Medical Physics
13. Radiology

**C. Postgraduate (PhD)**

1. Medical Imaging
2. Biophysics
3. Physical Principles of Ultrasonography
4. Interaction of Laser-Tissue
5. Anatomy Radiology
6. Biomechanics

**Awards**

1. The Selected Student, International Kharazmi Festival, 1999.
2. The better selected Researcher, Tarbiat Modares University, 2004.
3. The better selected researcher in National Festival Women and Research, 2004, (1th Rank).
4. The better selected researcher in Tarbiat Modares University, 2005.
5. The better selected researcher in Tarbiat Modares University, 2006.
6. The better selected researcher in the 13th Razi Research International Festival on Medical Sciences,

2007, (2th Rank).

7. The better selected researcher in Tarbiat Modares University, 2007.
8. The better selected Teacher in Tarbiat Modares University, 2008.
9. The better selected researcher in Tarbiat Modares University, 2009.
10. The better selected researcher in Tarbiat Modares University for high quality paper, 2012.