

Faculty of Medical Sciences  
Tarbiat Modares University

Manijhe Mokhtari-Dizaji

**Professor**

[mokhtarm@modares.ac.ir](mailto:mokhtarm@modares.ac.ir)

[manijhem@yahoo.com](mailto:manijhem@yahoo.com)



PERSONAL INFORMATION

**Name:** Manijhe Mokhtari-Dizaji  
**Date of birth:** 2. 2.1965  
**Place of birth:** Tehran, Iran  
**Marital status:** Married, 2 Children  
**Correspondence:** Department of Medical Physics, Faculty member of Medical Sciences,  
Tarbiat Modares University,  
**P O Box:** 14115-331, Tehran, Islamic Republic of Iran  
**Tel:** Room: (+98 21) 82883893, Lab: (+98 21) 82883882,  
**Fax:** (+9821) 88006544

EDUCATIONAL RECORDS

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

- Editor of the Journal of the Iranian Society of Acoustic Engineering since 2013
- Member of the Editorial Board of the Journal of the Iranian Society of Acoustic Engineering since 2013
- Member of the Editorial Board of the Journal of Ultrasonography (Q2) since 2018

- Chairman and member of the corresponding international technical committee  
INSO.IEC.TC87 standard
- Member of the National Elite Foundation's Talent Identification Group
- Cooperation with the Nanoscience and Technology Research Institute of Sharif  
University

#### 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, Since 1998.
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
6. and etc

#### 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
- 15) Ultrason Sonochem
16. and ....

#### RESEARCH INTERESTS

1. Ultrasonic Tissue Characterization
2. Bone Densitometry
3. Laser, Interaction with tissue, repair
4. Mechanical parameters in Cardiovascular 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
10. Stem cells Research

#### 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<sub>0</sub> 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. Komes, 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<sub>0</sub> 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, postoperative 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 gradient 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. Mortezaazadeh 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, postoperative 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. Mortezaazade 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 modulus for detection of lesions in breast tissue using ultrasonography. *J Biomech* 2007; 40: 263. [http://dx.doi.org/10.1016/S0021-9290\(07\)70725-X](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.
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, Rasae 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.
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.
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.
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.
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. *Acoust Eng Soc 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.
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.

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.

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.

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.

125. Ebrahimi 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. Ramezanzpour 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.

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.

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 (8): 1205-1215. Aug. 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.
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.
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.
135. Baghbani F, Moztarzadeh F, Mohandesi JA, Yazdian F, Mokhtari-Dizaji M, Hamed 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, Hamed 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, Fatouraei N, Saberi H. Assessing the blood pressure waveform of the carotid artery using an ultrasound image processing method. *Ultrasonography* 2017, 36 (2): 144-152. Apr. doi: 10.14366/usg.16019.
140. Baghbani F, Chegeni M, Moztarzadeh F, Aghazadeh J, Mokhtari-Dizaji M. Ultrasonic nanotherapy of breast cancer using novel ultrasound responsive alginate shelled perfluorohexane nanodroplets: in vitro and in vivo evaluation. *Materials Sci Eng C* 2017; 77: 698-707. Feb. <https://doi.org/10.1016/j.msec.2017.02.017>
141. Hormozi Moghaddam Z, Mokhtari-Dizaji M, Movahedin M, Ravari ME. Estimation of the distribution of low-intensity ultrasound mechanical index as a parameter affecting the proliferation of spermatogonia stem cells in vitro. *Ultrason Sonochem.* 2017; 37: 571-581. Jul. doi: 10.1016/j.ultsonch.2017.02.013.
142. Soleimani F, Madaah Hosseini HR, Ordikhani F, Mokhtari-Dizaji M. Enhancing sonocatalytic properties of TiO<sub>2</sub> nanocatalysts by controlling the surface conditions: effect of particle size and PVA modification. *J Desalination Water Treat* 2016; 57 (58): 28378-28385. Jun. <http://dx.doi.org/10.1080/19443994.2016.1185746>.
143. Maerefat M, Ansari M, Mokhtari Dizaji M. The effect of the degree of arterial tethering on the estimation of arterial atherosclerosis using an analytical solution. *Modares Mech Eng* 2016; 16 (12): 685-691.
144. Kahrizi S, Mirzae F, Mokhtari Dizaji M. A Comparison of Automatic and Voluntary Contractions in subjects with and without Low Back Pain. *International Journal of Musculoskeletal Pain Prevention (IJMPP)* Summer 2016; 1 (3): 131-136.
145. Goharpey N, Mokhtari-Dizaji M, Bakhshandeh M. The gelatin concentration effect on ultrasonic characterization of MAGIC-f polymer gel in 36 Gy absorbed dose. *Iran J Radiat Safety Measurement (IJRSM)* winter 2016; 4 (4) :27-36.
146. Mahdi Mohaqiq, Mansoureh Movahedin, Manizheh Mokhtari Dizchi, Zohreh Mazaheri. Upregulation of expression of  $\alpha 6$  and  $\beta 1$  integrins genes in mouse spermatogonial stem cells after continues and pulsed low intensity ultrasound stimulation. *Cell J (Yakhteh)* 2018 Winter; 19 (4): 634-639. [10.22074/cellj.2018.4286](https://doi.org/10.22074/cellj.2018.4286)
147. Hormozi Moghaddam Z, Mokhtari-Dizaji M, Movahedin M, Ravari ME. Estimation of mechanical index distribution of low intensity ultrasound waves in cell studies. *Acoust Eng Soc Iran Winter* 2017; 5 (1): 1-13.

148. Soleimani E, Mokhtari-Dizaji M, Fatourae N, Saberi H. A finite element viscoelastic model based on consecutive transverse ultrasound images of carotid artery. *Modares Mech Eng* 2017; 17 (7): 421-430.
149. Soleimani E, Mokhtari-Dizaji M, Fatourae N, Saberi H. Evaluating the effect of stenosis increase and pulsatile blood pressure on the effective stress distribution in finite element viscoelastic and wholly ultrasound based model of carotid artery. *Acoust Eng Soc Iran* 2018; 6 (1): 21-31.
150. Samandari M, Abrinia K, Mokhtari-Dizaji M, Tamayol M. Ultrasound induced strain cytoskeleton rearrangement: An experimental and simulation study. *J Biomech* July 26 2017; 60: 39–47. <https://doi.org/10.1016/j.jbiomech.2017.06.003>
151. Mohammadkarim A, Mokhtari-Dizaji M, Kazemian A, Saberi H, Khani MM, Tabatabaei SM, Bakhshandeh M. Investigation of morphological behavior of human endothelial cells in the process of radiation therapy based on the cytoskeleton imaging. *J Modares Med Sci: Pathobiol Res* 2017; 20 (2): 63-77.
152. Mobasheri M, Mokhtari Dizaji M, Roshanali F. Estimation of myocardial torsion angle by tracking ultrasound sequential images. *Iran J Biomed Eng* 2016 Spring; 10 (1): 11-20. [10.22041/ijbme.2017.52951.1166](https://doi.org/10.22041/ijbme.2017.52951.1166).
153. Hasankhani H, Mohammadi E, Moazzami F, Mokhtari M, Naghgizadh MM. The effects of intravenous fluids temperature on perioperative hemodynamic situation, post-operative shivering, and recovery in orthopaedic surgery. *Can Oper Room Nurs J*. 2007 Mar; 25(1): 20-24, 26-7.
154. Amirifalah Z, Mokhtari Dizaji M, Javan M. Study of the visual evoked potential frequency content and the demyelination induction in optic chiasm effect on it in rat. *Koomesh* 2017 Winter; 20 (1): 105-114.
155. Mohammadkarim A, Mokhtari-Dizaji M, Kazemian A, Saberi H. Hemodynamic analysis of radiation - induced common carotid arteries by using color Doppler ultrasonography. *Ultrasonography* 14 April 2018; 37: 43-49. <https://doi.org/10.14366/usg.17016>
156. Mohaqiq M, Movahedin M, Mokhtari Dizaji M, Mazaheri Z. Upregulation of integrin- $\alpha$ 6 and integrin- $\beta$ 1 gene expressions in mouse spermatogonial stem cells after continues and

pulsed low intensity ultrasound stimulation. *Cell J.* 2018 Jan-Mar (Winter); 19(4): 634-639. doi: 10.22074/cellj.2018.4286.

157. Soleimani E, Mokhtari-Dizaji M, Fatourae N, Saberi H. Estimation of biomechanical properties of normal and atherosclerotic common carotid arteries. *Cardiovasc Eng Technol* 2019; 10 (1): 112-123. March doi: 10.1007/s13239-018-00389-9. Epub 2018 Oct 24.

158. Taghi AR, Mokhtari Dizaji M , Ahmadi Z, Heydarheydari S. String phantom in calibration of Doppler ultrasound systems. *Acoust Eng Soc Iran* 2018; 5 (2): 67-76.

159. Mobasheri M, Mokhtari Dizaji M, Toliyat T, Mehrpour M. Destruction of recombinant tissue plasminogen activator (rtPA) - loaded echogenic liposomes under dual frequency sonication. *J Kerman University Med Sci* 2018; 25 (3): 243-254.

160. Mohammadkarim A, Tabatabaei M, Parandakh A, Mokhtari-Dizaji M, Tafazzoli-Shadpour M, Khani MM. Radiation therapy affects the mechanical behavior of human umbilical vein endothelial cells. *J Mech Behav Biomed Mater.* 2018 Sep;85:188-193. doi: 10.1016/j.jmbbm.2018.06.009.

161. Mohammadkarim A, Mokhtari-Dizaji M, Kazemian A, Saberi H, Khani MM, Bakhshandeh M. Dose-dependent  $^{60}\text{Co}$   $\gamma$ -radiation effects on human endothelial cell mechanical properties. *Cell Biochem Biophys.* 2018 Dec 18. doi: 10.1007/s12013-018-0864-3.

162. Jafari M, Bahrpeyma F, Mokhtari-Dizaji M, Nasiri A. Novel method to measure active myofascial trigger point stiffness using ultrasound imaging. *J Bodywork Mov Ther.* 2018 Apr; 22(2): 374-378. doi: 10.1016/j.jbmt.2017.06.019.

163. Adelnia A, Mokhtari-Dizaji M, Hoseinkhani S, Bakhshandeh M. The effect of low intensity dual frequency ultrasonic waves on the viability of the B16-F10 melanoma cell. *Acoust Eng Soc Iran* 2019, 6 (2): 1-8.

164. Mohammadkarim A, Mokhtari-Dizaji M, Kazemian, Saberi H, Khani MM, Bakhshandeh M. The Mechanical characteristics of human endothelial cells in response to single ionizing radiation doses by using micropipette aspiration technique. *Mol Cell Biomech* 2019; 16 (4): 275-287. doi:10.32604/mcb.2019.06280.

165. Ramezanpour M, Maerefat M, Ramezanpour N, Mokhtari-Dizaji M, Roshanali F, Rikhtegar Nezami F. Numerical investigation of the effects of bed shape on the end-to-side

CABG hemodynamics. *Journal of Mechanics in Medicine and Biology* 2019; 19 (4): 1950019. DOI: 10.1142/S0219519419500192.

166. Moradi S, Mokhtari-Dizaji M, Ghassemi F, Sheibani S, Asadi Amoli F. Cytotoxicity effect of gold nanoparticles against a rabbit model of retinoblastoma. *Koomesh* 2019 Autumn; 21 (4): 726-734.

167. Jabari A, Mokhtari-Dizaji M, Arab-Bafrani Z, Mosavi E, Mahani L, Mostakhdem Hashemi M. Assessment of left ventricular torsion in long axis view in patients with chronic stenosis of coronary arteries. *Caspian J Intern Med* 2020 May; 11(1): 21-27. DOI: 10.22088/cjim.11.1.21

168. Estaji M, Mokhtari-Dizaji M, Movahedin M, Ghaffari Khaligh S. Evaluation of physical parameters of skin by consecutive ultrasonic image processing during ultraviolet radiation in an animal model of wrinkled skin. *J Babol Univ Med Sci* 2019; 21: 279-85. [http://jbums.org/browse.php?a\\_id=8172&sid=1&slc\\_lang=en](http://jbums.org/browse.php?a_id=8172&sid=1&slc_lang=en)

169. Mohammadkarim A, Mokhtari-Dizaji M, Kazemian A, Saberi H, Kalbasi Anaraki S. Assessing the intima-media thickness and Young modulus changes of the common carotid artery in the neck region external radiotherapy based on the processing of ultrasonic images. *Acoust Eng Soc Iran* 2019, 7 (1): 40-49.

170. Mohammad Amoli. S, Sadeghi. H, Mokhtari Dizaji. M. Effect of eight weeks' endurance training on femurs biomechanical properties of old male rats. *Sport Med Studies* 2015 & 2016 Fall & Winter 2015 & 2016; 7 (18): 31-42.

171. Mohammad Amoli S, Sadeghi H, Mokhtari Dizaji M, Rajabi H. Comparison of selected biomechanical parameters of blood and carotid artery in elite young male and female basketball and volleyball player with ultrasound imaging method. *Sport Med Studies* 2019 Spring & Summer; 11(25): 143-158. DOI: 10.22089/smj.2019.7349.1371

172. Ekrami H, Movahedin M, Koosha F, Mazaheri Z, Mokhtari-Dizaji M. The effects of calligonum extract and low-intensity ultrasound on motility, viability, and DNA fragmentation of human frozen-thawed semen. *Int J Fertil stril* 2020 Jul and Sep; 14 (2): 84-90.

173. Estaji M, Mokhtari-Dizaji M, Movahedin M, Ghaffari Khaligh S. Correlation of energy density of ultraviolet radiation with skin thickening in an animal mouse model: Creation of a

Trichoepithelioma model. Iran J Med Phys 2021; Mar and April 18: 106-110. 10.22038/ijmp.2020.44444.1680.

174. Moradi S, Mokhtari-Dizaji M, Ghassemi F, Sheibani S, Asadi Amoli F. Effect of 3 MHz ultrasound radiation on retinoblastoma cell line. Acoust Eng Soc Iran 2020; 8 (1): 1-6.

175. Moradi S, Mokhtari-Dizaji M, Ghassemi F, Sheibani S, Asadi Amoli F. The effect of ultrasound hyperthermia with gold nanoparticles on retinoblastoma Y79 cells. Gold Bulletin 2020; June 53: 111-120.

176. Estaji M, Mokhtari-Dizaji M, Movahedin M, Padash A, Ghaffari Khaligh S. Effect of fullerene nanoemulsion on the repair of wrinkles induced by UVB radiation: A c57bl6 mice model. Skin Res Technol 2021; 27(1): 32-40. <https://doi.org/10.1111/srt.12903>

177. Goharpey N, Mokhtari-Dizaji M, Bakhshandeh M. A novel ultrasonic gel phantom dosimetry for evaluation of dose-response. J Korean Phys Soc Dec 2020; 77(12): 1238-1247. 10.3938/jkps.77.1

178. Hormozi Moghaddam Z, Mokhtari-Dizaji M, Nilforoshzade MA, Bakhshandeh M. Low-intensity ultrasound to induce proliferation and collagen: Expression of adipose-derived mesenchymal stem cells and fibroblast cells in co-culture. Measurement 2021; 167: 108280. 10.1016/j.measurement.2020.108280

179. Hormozi Moghaddam Z, Mokhtari-Dizaji M, Movahedin M. Effect of acoustic cavitation on mouse spermatogonial stem cells: Colonization and viability. J Med Ultrasound 2021; 40: 999-1010. 10.1002/jum.15476

180. Moradi S, Mokhtari-Dizaji M, Ghassemi F, Sheibani S, Asadi Amoli F. Increasing the efficiency of the retinoblastoma brachytherapy protocol with ultrasonic hyperthermia and gold nanoparticles: a rabbit model. Int J Radiat Biol Dec 2020; 96(12): 1614-1627. 10.1080/09553002.2020.1838657

181. Yousefian B, Firoozabadi SMP, Mokhtari-Dizaji M. Magnetoporation: New method for permeabilization of cancerous cells to hydrophilic drugs. Available Online from 21 November 2020. J Biomed Phys Eng 2022; 12 (2): 205-210.

182. Estaji M, Mokhtari-Dizaji M, Movahedin M, Ghaffari Khaligh S. Non-invasive evaluation of elasticity of skin with the processing of ultrasound images during ultraviolet radiation: An animal photoaging model. Photodermatol Photoimmune, Photomed 2021; 37: 131-139. 10.1111/phpp.12622

183. Adelnia A, Mokhtari-Dizaji M, Hoseinkhani S, Bakhshandeh M. The effect of dual-frequency ultrasound waves on B16F10 melanoma cells: Sonodynamic therapy using nanoliposomes containing methylene blue. *Skin Res Technol* 2020; 00: 1-9. 10.1111/srt.1296
184. Hormozi Moghaddam Z, Mokhtari-Dizaji M, Nilforoshzade MA, Bakhshandeh M, Ghaffari Khaligh S. Low-intensity ultrasound combined with allogenic adipose-derived mesenchymal stem cells (AdMSCs) in radiation-induced skin injury treatment. *Scientific Reports* 2020; 10: 20006. 10.1038/s41598-020-77019-9
185. Soleimani H, Abdolmaleki P, Mokhtari-Dizaji M, Toliat T, Tavasoly A. Comparison of the effects of ultrasound in a repetitive mode and acoustically active lipospheres in the presence of doxorubicin on breast adenocarcinoma. *J Can Res Ther* 2020; 16: 1250-1257. DOI: 10.4103/jcrt.JCRT\_839\_16.
186. Soleimani E, Mokhtari Dizaji M, Fatourae N, Saberi H. Stress distribution analysis in healthy and stenosed carotid artery models reconstructed from in vivo ultrasonography. *Ultrasonography*; 2021; 40: 428-441. 10.14366/usg.20131
187. Khosravanipour MJ, Mokhtari-Dizaji M, Farhan F, Sattarzadeh-Badkoubeh R. Non-invasive estimation of cardiac wall stress by using tissue Doppler-echocardiography ultrasound images: People with coronary artery stenosis. *Acoust Eng Soc Iran* 2021; 8 (2): 27-35.
188. Mohammadkarim A, Mokhtari-Dizaji M, Kazemian A, Saberi H, Ayoobi Yazdi N, Esfahani M. Assessing the short term effects of radiotherapy on shear modulus of common carotid artery as a new biomarker of radiation-induced atherosclerosis. *Ultrasonography*; 2022; 41(1); 114-123. doi: 10.14366/usg.21032.
189. Mohammadi S, Movahedin M, Mokhtari-Dizaji M. Determination of optimal parameters of ultrasound waves on spermatogenesis process of neonate mouse test. *J Acoust Soc Iran* 2021; 9 (1): 48-54.
190. Shahidani A, Mokhtari-Dizaji M, Shankayi Z, Najafi M. Modeling and investigating the effect of ultrasound waves pressure on the microbubble oscillation dynamics in microvessel containing incompressible fluid. *J Acoust Soc Iran* 2022; 9 (2): 52-60.

191. Mortazavi S, Mokhtari-Dizaji M. Threshold of Linear and Nonlinear Behavior of High Intensity Focused Ultrasound (HIFU) in skin, fat, muscle tissue using computer simulation. *Iran J Med Phys* 2022; 19 (3): 181-188.
192. Estaji M, Mokhtari-Dizaji M, Movahedin M, Padash A, Ghaffari Khaligh S. Non-invasive extraction of mechanical skin parameters by ultrasonic image processing: Validation by invasive tensiometric method. *Sci J Kurdistan Univ Med Sci* 2022; 118: 126-136.
193. Tamartash H, Bahrpeyma F, Mokhtari Dizaji M. Comparative effect of lumbar myofascial release with electrotherapy on the elastic modulus of lumbar fascia and pain in patients with non-specific low back pain. *Journal of Bodywork and Movement Therapies* 2022; 29: 174–179. doi.org/10.1016/j.jbmt.2021.10.008
194. Mortazavi S, Mokhtari-Dizaji M. Extraction of pressure and temperature distribution of high intensity focused ultrasound considering nonlinear propagation. *J Mech Med Biol* 2022; 22 (2): 22500091-225000922. 10.1142/S0219519422500099
195. Tamartash H, Bahrpeyma F, Mokhtari Dizaji M. Effect of remote myofascial release on lumbar elasticity and pain in patients with chronic nonspecific low back pain: A randomized clinical trial. *Journal of Chiropractic Medicine* 2022; 22 (1): 52-59.
196. Tamartash H, Bahrpeyma F, Mokhtari Dizaji M. Ultrasound evidence of altered lumbar fascia in patients with low back pain. *Clinical Anatomy* 2023; 36: 36-43. 10.1002/ca.23964
197. Tamartash H, Bahrpeyma F, Mokhtari Dizaji M. Effect of Myofascial Release Technique on Lumbar Fascia Thickness and Low Back Pain: A Clinical Trial. *Journal of Modern Rehabilitation (JMR)* 2022; 16 (3): 244-251.
198. Goleh Z, Mokhtari-Dizaji M, Toliyat T. The effect of dual-frequency sonication in the presence of thalidomide angiogenesis inhibitor and nanomicelles containing doxorubicin on inhibiting the growth and angiogenesis of breast adenocarcinoma in vivo. *Med Oncol* 2023; 40 (20): 1-12.
199. Ahmadi ZS, Mokhtari Dizaji M, Sadeghpour A, Khesali H, Firouzi A. Assessment of physical and mechanical parameters of left ventricle by speckle tracking technique for prediction coronary artery disease patients. *Frontiers in Biomedical Technologies* 2022; 9 (3): 206-213.

200. Mortazavi S, Mokhtari-Dizaji M. Effect of cross-sectional area of high-intensity focused ultrasound (HIFU) on the thermal distribution of the target tissue. *J Acoust Soc Iran* 2021; 9 (1): 1-9.
201. Rastegari K, Mokhtari-Dizaji M, Harirchian MH, Hashemi H, Ayoobi Yazdi N, Saberi H. Evaluation of biomechanical changes of common carotid artery and internal jugular vein in patients with multiple sclerosis. *Ultrasonography* 2023; 42: 100-110.
202. Ahmadi ZS, Mokhtari Dizaji M, Sadeghpour A, Khesali H, Firouzi A. Estimation of the segmental left ventricular physical and mechanical parameters using echocardiographic imaging for stent candidate patients. *J Clin Ultrasound* 2023 (Jan); 51 (1): 20-28. <https://onlinelibrary.wiley.com/doi/epdf/10.1002/jcu.23324>
203. Mortazavi S, Mokhtari-Dizaji M. Numerical study of high-intensity focused ultrasound (HIFU) in fat reduction. *Skin Res Technol* 2023 (Jan); 29(1): e13280. <https://doi.org/10.1111/srt.13280>
204. Ahmadi ZS, Mokhtari Dizaji M, Sadeghpour A, Khesali H, Firouzi A. Evaluation of strain and strain rate parameters using two-dimensional speckle tracking echocardiography in patients with coronary artery disease. *J Acoust Soc Iran* 2022; 9 (2): 9-18.
205. Sharifi N, Soleimanjahi H, Mokhtari-Dizaji M, Banijamali RS, Elhamipour M, Karimi H. Low-intensity ultrasound as a novel strategy to improve the cytotoxic effect of oncolytic reovirus on colorectal cancer model cells. *Intervirolgy* 2022; 65(2): 110-118. doi: 10.1159/000519492.
206. Khosravanipour MJ, Mokhtari-Dizaji M, Farhan F, Sattarzadeh-Badkoubeh R. Comparison of two thick shell models performance in noninvasive evaluation of myocardial wall stress. *J Mech Med Biol* 2021; 21(7): 2150056. [doi.org/10.1142/S0219519421500561](https://doi.org/10.1142/S0219519421500561)
207. Omid P, Ravanbod R, Sarhan G, Mokhtari-Dizaji M. The Effects of 2W Laser on nasolabial fold of the ageing individuals investigated by high-frequency ultrasonography: A nonrandomized controlled trial. *J Lasers Med Sci* 2022; 13 (e71): 1-7.
208. Ahmadi ZS, Mokhtari Dizaji M, Sadeghpour A, Khesali H, Firouzi A. Comparison of two ellipsoidal models for estimation of left ventricular end-systolic stress in patients with significant coronary artery disease. *J Res Med Sci* 2023; July 28(1): 62-69. DOI: 10.4103/jrms.jrms\_4\_2

209. Hormozi Moghaddam Z, Mokhtari-Dizaji M, Nilforoshzade MA, Bakhshandeh M. Ultrasound Waves Effect on the Proliferation of Fibroblast Cells: Collagen Type I Expression. *J Biomed Phys Eng* 2025; 15 (3): 249-262. doi: 10.31661/jbpe.v0i0.2212-1567
210. Shahidani A, Mokhtari- Dizaji M, Shankayi Z, Najafi M. Comparison of ultrasonographic images of glioblastoma tumor with magnetic resonance images: Rat animal model. *Frontiers in Biomedical Technologies* 2024 Springer; 11 (2): 169-176. 10.18502/fbt.v11i2.15332
211. Rastegari K, Mokhtari-Dizaji M, Harirchian MH, Hashemi H, Ayoobi Yazdi N, Saberi H. Estimation of internal jugular vein pressure in healthy individuals and patients with multiple sclerosis (MS) using ultrasound image processing. *J Acoustic Soc Iran*; 2023; 10 (2): 70-76.
212. Hormozi-Moghaddam Z, Mokhtari-Dizaji M, Nilforoshzade MA, Bakhshande M, Zare S. High-resolution ultrasound imaging for non-invasive characterization of acute wound healing in radiation injury on guinea pig skin tissue. *Frontiers in Biomedical Technologies* 2023 Winter; 11 (1): 104-112. 10.18502/fbt.v11i1.14517
213. Tamartash H, Bahrpeyma F, Mokhtari Dizaji M. The effect of transcutaneous electrical nerve stimulation on pain and electrical stimulation muscle thickness in patients with non-specific chronic low back pain-based ultrasonographic evaluation. *Pain Management* 2023; 13 (2): 87-94.
214. Omid P, Ravanbod R, Mokhtari-Dizaji M, Sarhan G. The effectiveness of dry needling on dimensions and elastic modulus of the nasolabial fold due to aging process: An uncontrolled before-after clinical trial study. *J Res Rehabil Sci* 2019; 15(1): 20-27. 10.22122/JRRS.V15I1.3373
215. Taleghani MH, Khodadadi S, Maddahian R, Mokhtari-Dizaji M. Enhancing the bubble collapse energy using the electro-hydrodynamic force. *Physics of Fluids* 2023; 35 (5): 053316. <https://doi.org/10.1063/5.0146491>
216. Amiri H, Mokhtari-Dizaji M, Mozdarani H. Cellular pathways of cancer treatment by photodynamic therapy. *Laser in Medicine* 2023; 19 (4): 24-34.
217. Amiri H, Mokhtari-Dizaji M, Mozdarani H. Optimizing the administrated light dose during 5-ALA-mediated photodynamic therapy: Murine 4T1 breast cancer model.

Photodermatology Photoimmunology and Photomedicine 2024 Jan; 40:e12925: 1-10.  
10.1111/phpp.12925

218. Azadegan M, Kamali Moghadam R, Najafi M, Sahranavardfard N, Mokhtari-Dizaji M. Evaluating optimal ultrasound to deform the blood clot in a vessel. Journal of Acoustical Engineering Society of Iran 2023 Spring; 11 (1): 73-83.

219. Tamartash H, Bahrpeyma F, Mokhtari Dizaji M. The Effect of Remote Myofascial Release on Chronic Nonspecific Low Back Pain With Hamstrings Tightness. Journal of Sport Rehabilitation 2023 March; 32 (5): 549-556. 10.1123/jsr.2022-0141

220. Bayat M, Mehrshahi E, Karimian , Mokhtari Dizaji M. Acoustic cavitation, a non-invasive method for thrombus destruction. Journal of Acoustical Engineering Society of Iran 2024 Winter; 11 (2): 10-17.

221. Motiee S, Momeni Masuleh SH, Mokhtari Dizaji M. Visualization and analysis of scientific outputs on acoustic cavitation in Iran and worldwide: A scientometric study. Journal of Acoustical Engineering Society of Iran 2024 Winter; 11 (2): 1-9.

222. Ahmadi ZA, Mokhtari-Dizaji M, Khesali H. Evaluation of left ventricular rotation using speckle tracking technique in echocardiographic images of coronary artery stenosis patients. Iran J Med Phys 2025; 22(1): 1-5.  
[https://ijmp.mums.ac.ir/article\\_24100\\_b259d74c5bb1a3fd87b79c99a823b792.pdf](https://ijmp.mums.ac.ir/article_24100_b259d74c5bb1a3fd87b79c99a823b792.pdf)

223. Givarian M, Moztarzadeh F, Ghaffari M, Bahmanpour A, Mollazadeh-Bajestani M, Mokhtari-Dizaji M, Mehradnia F. Dual-trigger release of berberine chloride from the gelatin/perfluorohexane core-shell structure. Bulletin of the National Research Centre 2024 June; 48 (65): 1-15. 10.1186/s42269-024-01220-3

224. Mohamad Amoli S, Sadeghi H, Mokhtari-Dizaji M, Rajabi H. The adaptability of the common carotid artery in elite female volleyball and basketball players based on the processing of ultrasonic images. Studies in Sport Medicine 2024; in press.  
10.22089/smj.2023.12541.1593

225. Sadeghi-Gougheri O, Mokhtari-Dizaji M, Saberi H, Naseri R. A new method in extracting lung wall compressibility using ultrasound image processing: Maximum gradient and block matching algorithms. Journal of Acoustical Engineering Society of Iran 2024 Winter; 11 (2): 83-89.

226. Shahidani A, Mokhtari-Dizaji M, Shankayi Z. The effect of dual-frequency sonication parameters on the oscillatory behavior of microbubble in blood fluid. *Phys Fluids* 2024, 36: 111912. doi.org/10.1063/5.0236627
227. Talebian-Darzi S, Mokhtari-Dizaji M, Ayoobi-Yazdi N. Processing of consecutive ultrasound images of liver tissue with block matching algorithm to extract shear modulus of fatty liver tissue. *Journal of Acoustical Engineering Society of Iran* 2025; 12 (2): 17-25.
228. Khodadadi A, Mokhtari-Dizaji M, Ayoobi N. Using ultrasound sequential images processing to predict radiotherapy-induced Sternocleidomastoid muscle fibrosis. *Int J Radiat Biol*; 2025; 101: 411-421.
229. Shahidani A, Mokhtari-Dizaji M, Shankayi Z, Najafi M. The effect of ultrasonication mode on the dynamics of microbubble oscillation and safe vessel wall displacement. *Journal of Mechanics in Medicine and Biology* 2025; : 25 (6): 2550004 (1)-255004. DOI: 10.1142/S0219519425500046
230. Rahmatizadeh B, Azadegan M, Mokhtari-Dizaji M, Hamidi Beheshti M T, Najafi M. Control of acoustic cavitation yield by dual frequency sonication: A Lyapunov exponent analysis. *Applied Acoustics* 2025; 239: 110829.  
<https://doi.org/10.1016/j.apacoust.2025.110829>
231. Ahmadi ZS, Mokhtari Dizaji M, Khesali H. Assessment of left ventricular function by echocardiographic imaging in patients non-ST segment elevation ACS undergoing successful percutaneous revascularization therapy. *J Clin Ultrasound* 2025; 53 (9): 2071-2080. doi.org/10.1002/jcu.70001.
232. Shurche S, Mokhtari Dizaji M, Movahedin M, Nilforoshzade MA, Taghiabadi E. Assessing Dihydrotestosterone-Induced Skin Alterations in C57BL/6 Mice: Implications for Androgenetic Alopecia through High-Resolution Ultrasound Imaging. *Journal of Frontiers in Biomedical Technologies* 2026; 13 (1): 29-39.
233. Sameerah Hasan Abdullah, Manijhe Mokhtari-Dizaji, Zeinab Hormozi-Moghaddam, Mohsen Bakhshandeh. Mohammad Ali Nilforoshzadeh. Effects of Low-Level Gallium-Aluminum-Arsenide Laser Therapy on Human Dermal Fibroblast Proliferation, ATP, and ROS Levels. *J Lasers Med Sci* 2025; 16: e27-e35. 10.34172/jlms.2025.27
234. Sameerah Hasan Abdullah, Manijhe Mokhtari-Dizaji, Zeinab Hormozi-Moghaddam, Mohsen Bakhshandeh. Mohammad Ali Nilforoshzadeh. Laser photobiomodulation of human

dermal fibroblasts combined with plasma rich in growth factors and platelet-rich Plasma: A comparative in vitro analysis. *Photodermatology, Photoimmunology & Photomedicine* 2025; 41: e70063.

235. Jalal Ordoni, Manijhe Mokhtari-Dizaji. Hossein Mozdarani. Seied Rabi Mahdavi. Sonodynamic therapy of breast cancer cells using 1 MHz ultrasound: impact of gold NPs. *IJRR* accepted

236. Talebian-Darzi S, Mokhtari-Dizaji M, Ayoobi-Yazdi N. Quantitative Assessment of Liver Tissue Stiffness in Non-Alcoholic Fatty Liver Disease Using Point and Two-Dimensional Shear Wave Elastography. *FBT* Accepted

237. Ahlam Almanie, Manijhe Mokhtari Dizaji, Zeinab Shankayi, Zeinab Hormozi-Moghaddam. Numerical and experimental assessment of acoustic pressure attenuation and thermal effects during transcranial sonotherapy in rats. *FBT* accepted.

238. S. Shurche, M. Mokhtari-Dizaji, M. Movahedin, M. A. Nilforoshzade, E. Taghiabadi . Mechanical index -guided low intensity ultrasound therapy for hair regeneration: insights from finite element modeling and in vivo experiments. *Physics of Fluids* 2025; 37: 117114.

<https://doi.org/10.1063/5.0296903>

#### 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. 9<sup>th</sup> 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. *EMBE'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. *EMBE'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. 9<sup>th</sup> Iranian Medical Engineering Pros, 2000: 505-508.

6. Mokhtari-Dizaji M, Zahedi E, Sharafi A.A, Gity M. Tissue mimicking material in sonography. 4<sup>th</sup> 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. 4<sup>th</sup> 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<sub>0</sub> 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<sub>0</sub> phase. FICR 2000 Proc, 2000: 22-23.
10. Mokhtari- Dizaji M, Mohamadi N. M, Haji-Zavar M. Designing and Production of linear CO<sub>2</sub> 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. 10<sup>th</sup> 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. 10<sup>th</sup> ICBME Proc, 2000: 277-278.
14. Vahed M, Mokhtari-Dizaji M, Gity M. Potential 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. 4<sup>th</sup> conference in microbiology Proc, 2001: 106.

18. Mokhtari-Dizaji M, Safavi K, Ezati-Zade H. Setting up CO<sub>2</sub> 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 therapeutic 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. 13<sup>th</sup> 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. 2<sup>th</sup> MVIP Proc, 2003, 2: 351-355.
31. Mokhtari-Dizaji M. Design and setting up of motor control system of cornea topography. 6<sup>th</sup> 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 rabbit. 6<sup>th</sup> 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 Bernoulli principle. 16<sup>th</sup> of congress of Physiology and Pharmacology Proc, 2003:329.
34. Nikanjam N, Mokhtari-Dizaji M, Estimation of carotid static pressure gradients under normal and atherosclerotic 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<sup>th</sup> of congress of ISCS Proc, 2003: Rec: 10.
38. Mokhtari-Dizaji M, Jadidi M, Ultrasonic new methods in bone densitometry. 19<sup>th</sup> 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<sup>th</sup> 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<sup>th</sup> 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. 6<sup>th</sup> Iranian congress of Medical Physics Proc, 2004: 66.
43. Bitarafan A, Rajabi H, Mokhtari-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<sup>th</sup> 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<sup>th</sup> 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<sup>th</sup> 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. 11<sup>th</sup> 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. 3<sup>rd</sup> MVIP Proc, 2005,1: 313-317.

52. Morteza-zadeh F, Movahedin M, Mokhtari-Dizaji M. Dose ultrasound irradiation to the testis of testosterone treated mouse cause structural changes? 13<sup>th</sup> 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. 17<sup>th</sup> 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. 12<sup>th</sup> 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. 2<sup>th</sup> 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. 9<sup>th</sup> 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. 3<sup>th</sup> 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. *7<sup>th</sup> 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. *1<sup>th</sup> 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. *7<sup>th</sup> 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 absorptiometry with pencil beam: in vitro study. 7<sup>th</sup> 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. 6<sup>th</sup> congress of Khorasan Optometry, 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 ultrasonography. 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 29<sup>th</sup> 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. 18<sup>th</sup> 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. 18<sup>th</sup> 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. 18<sup>th</sup> 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 5<sup>th</sup> 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. 1<sup>th</sup> 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. 6<sup>th</sup> 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 6<sup>th</sup> 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 6<sup>th</sup> 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. 14<sup>th</sup> 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. 18<sup>th</sup> 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. 5<sup>th</sup> 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. 15<sup>th</sup> 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. 8<sup>th</sup> 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. 16<sup>th</sup> ICMP 2008; Dubai: 64.

90. Mokhtari-Dizaji M, Gity M, Gorjiara T. Lateral elastic modulus of breast tissue and lesions using ultrasonography. 3<sup>th</sup> 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 echocardiography 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 3<sup>rd</sup> 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. 9<sup>th</sup> 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. 6<sup>th</sup> 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. 9<sup>th</sup> 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. 3<sup>th</sup> 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. 5<sup>rd</sup> 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. 5<sup>rd</sup> 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. 17<sup>th</sup> 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. 10<sup>th</sup> Iran Congress Biochem and 3<sup>th</sup> 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. 4<sup>th</sup> 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. 1<sup>st</sup> 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. 1<sup>st</sup> 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.

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

112. 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. 2<sup>nd</sup> Nanodrugs Congress 2012; Ahvaz: 30.

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

114. 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.

115. 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.

116. Ebrahimi 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.
117. 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.
118. 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.
119. 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.
120. Soleimani E, Mokhtari Dizaji M, Nasser Fatourae, Saberi H. A purely ultrasonic method to extract the arterial blood pressure waveform. International Congress on Cardiac Emergencies 2014, Bandar Abbas Feb 19-21: 69.
121. 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. The second Iranian Cardiovascular Joint Congress 2014, Feb 25-28, Tehran, Iran: 58.
122. 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.
123. 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.
124. Soleimani E, Mokhtari Dizaji M, Nasser Fatourae, 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.

125. Ebrahimi 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, China; 30 Oct-2 Nov., Paper No. E10: 194.
126. 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<sup>th</sup> International Tehran Breast Cancer Congress 21th--24th Sep 2014; 2: 173-174.
127. Tamadon M, Mokhtari Dizaji M, Salouti M. Investigation the photothermal treatment effectiveness of murine breast adenocarcinoma tumor, in the presense of gold nanorods. 1<sup>st</sup> International and 8<sup>th</sup> Annual Tehran Breast Cancer Congress 28th- 30th Oct 2015, Tehran: 194.
128. 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<sup>th</sup> International Preventive Cardiology Congress 30th Sep-2th Oct 2015; Shiraz, Iran. *Int Cardovasc Res J* 2015; 9(4): 118.
129. Soleimani E, Mokhtari-Dizaji M, Fatourae N, Saberi H. Comparison of viscoelastic parameters changes in normal and atherosclerotic common carotid arteries. 4<sup>th</sup> International Preventive Cardiology Congress 30th Sep-2th Oct 2015; Shiraz, Iran. *Int Cardovasc Res J* 2015; 9(4): 204.
130. 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.
131. 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.
132. 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.

133. 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.
134. Goleh Z, Mokhtari-Dizaji M, Tolyat T. The effect of ultrasound waves on talydomid antiangiogenesis drug function in murine breast adenocarcinoma tumor. The first National Congress of Integrative Oncology 2016 Feb Tehran: 142.
135. Javaherinejad S, Mokhtari-Dizaji M, Ganati F. Evaluation of biodistribution of nanogold particles in murine breast adenocarcinoma tumor. The first National Congress of Integrative Oncology 2016 Feb Tehran: 106.
136. Khodadadi M, Mokhtari-Dizaji M, Torkaman G. Ultrasound waves in bone healing. 19<sup>th</sup> Annual Iranian Congress of Physical Medicine, Rehabilitation and Electrodiagnosis 2016 Feb; Tehran: 107.
137. Poshtmahi S, Mokhtari-Dizaji M, Torkaman G. Effect of ultrasound in produce collagen and measure skin thickness by transducer 40 MHz. 1<sup>th</sup> International Congress on Medicine, Public Health and Biological Sciences 2016; 1.
138. Masoumi SH, Mokhtari-Dizaji M, Arbabi A, Bakhshandeh M. Radiation sensitivity of MAGIC-F polymer gel by gold nanoparticles. 2<sup>nd</sup> International Conference on Research in Engineering, Science and Technology 2016 March; Istanbul: 1-4.
139. Goharpay N, Mokhtari-Dizaji M, Bakhshandeh M. Fitting of calibration curve on dose-ultrasound response of polymer gels. 2<sup>nd</sup> International Conference on Research in Engineering, Science and Technology 2016 March; Gorjestan: 21-25.
140. Javaherinejad S, Mokhtari-Dizaji M, Ganati F. Synergistic 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<sup>th</sup> International Conference on Nanostructures (ICNS6) 2016, March, Kish: 187-189.
141. Poshtmahi S, Mokhtari-Dizaji M, Torkaman G. Second and third degree burns using the formula Hendrix and compare data with burn marks. 2<sup>nd</sup> International Conference on Research in Engineering, Science and Technology 2016 March; Gorjestan: 187-189.
142. Hormozi Moghaddam Z, Mokhtari-Dizaji M, Movahedin M. Ultrasound mechanical index as a parameter affecting of the ability of proliferation of cells. World Academy of

Sciences, Engineering and Technology (WASET) 2017; Paris France Jan 23-24; 19 (1) Part XIV: 2290-2293.

143. Soleimani E, Mokhtari-Dizaji M, Fatouraei N, Saberi H. Evaluating the stress distribution applied to the carotid artery having severe atherosclerotic stenosis using a viscoelastic finite element model. 2<sup>nd</sup> Congress of Clinical cases in Complex Cardiovascular Therapeutics (CCCCT 2) 19-21 Apr 2017; Shiraz, Iran: 85-86.

144. Mohammad-Karim AR, Mokhtari-Dizaji M, Kazemian A, Saberi H. Evaluation of dose-response behaviour for instantaneous changes in the internal diameter of common carotid artery in the neck area radiation induced patient. 2<sup>nd</sup> National Meeting on Optimization in Radiation Therapy 26-27 Apr 2017, Mashhad Iran: 37.

145. Hormozi Moghaddam Z, Mokhtari-Dizaji M, Movahedin M, Ravari ME. Low intensity sonication on proliferation of spermatogonial stem cells isolated from neonate mouse testis. Iranian Journal Biotech, The second National Festival and International Congress on Stem Cell and Regenerative Medicine (ICSC2017), 13-15 Jul 2017: 188.

146. Hormozi Moghaddam Z, Mokhtari-Dizaji M, Movahedin M, Ravari ME. Ultrasound mechanical index as a parameter affecting the proliferation of spermatogonia stem cells. Iranian Journal Biotech, The second National Festival and International Congress on Stem Cell and Regenerative Medicine (ICSC2017), 13-15 Jul 2017: 189.

147. Taghi A, Mokhtari Dizaji M, Ahmadi ZS, Heydar Heydari S. Measurement of velocity of Doppler ultrasound systems using string phantom. The 4<sup>th</sup> Congress of Acoustical Engineering of Society of Iran (National) - ASI Esfand 2018: 43-46.

148. Mosavi P, Mokhtari-Dizaji M. The study of the difference between the resonance frequency of healthy and atrophy gastrocnemius muscle in the rabbit animal model. The 4<sup>th</sup> Congress of Acoustical Engineering of Society of Iran (National) - ASI Esfand 2018: 133-136.

149. Estaji M, Mokhtari Dizaji M, Movahedin M. Extraction of skin mechanical behavior during radiation with ultraviolet light B in animal model. The 4<sup>th</sup> Congress of Acoustical Engineering of Society of Iran (National) - ASI Esfand 2018: 137-140.

150. Khosravi F, Mokhtari Dizaji M, Bahraie N. The effect of low frequency ultrasound radiation on the treatment of diabetic wound in animal model of mouse. The 4<sup>th</sup> Congress of Acoustical Engineering of Society of Iran (National) - ASI Esfand 2018: 129-132.

151. Soleimani E, Mokhtari-Dizaji M, Fatouraee N, Saberi H. Role of fibrotic cap thickness on the stress distribution of the carotid plaque. 10 th Middle East Cardiovascular Congress 6-8 Dec 2017; 58.
152. Mokhtari Dizaji M, Tamadon M. Investigation the effect of irradiation of laser light selected by the Monte Carlo simulation in the presence of gold nanoparticles, on reduction in growth of murine breast adenocarcinoma tumor. 12<sup>th</sup> Int Congress WALT 2018, 3-6 Oct: 89.
153. Ebrahiminia A, Mokhtari-Dizaji M, Toliyat T. Effect of dual frequency ultrasound in photosensitizer release from nanopolymers in breast adenocarcinoma treatment by photodynamic therapy method. 12<sup>th</sup> Int Congress WALT 2018, 3-6 Oct: 90.
154. Rastegar K, Mokhtari Dizaji M, Harirchian MS, Hashemi H, Ayoobi Yazdi N, Saberi H. Internal jugular vein pressure extraction in healthy and MS patients using intravenous ultrasound images. 5<sup>th</sup> Congress on ASI 2019, Winter: 14.
155. Khosravani MJ, Mokhtari Dizaji M, Farhan F, Satarzadeh R. Non-invasive estimation of stress on the heart wall using tissue echocardiography-Tissue Doppler imaging: In patients with coronary artery stenosis. 5<sup>th</sup> Congress on ASI 2019, Winter: 13.
156. Moradi S, Mokhtari Dizaji M, Ghasemi F, Shaybani S, Asadi Amoli F. Effect of 3 MHz ultrasound radiation on retinoblastoma cell line. 5<sup>th</sup> Congress on ASI 2019, Winter: 15.
157. Sharifi N, Soleimanjahi H, Mokhtari Dizaji M, Elhamipour M, Banijamali RS. Oncolytic reovirus titer determination in exposure to low-intensity ultrasound. 11<sup>th</sup> Int Congress Lab Clinic 2019; PC 12.
158. Moladoust H, Mokhtari Dizaji M, Ojaghi Haghghi SZ, Ahmadi SZ. Evaluation of physical parameters of left ventricle in patients with coronary artery stenosis. The First Iran Congress of Cardio Vasculo Pulmonary Rehabilitation 2019, 30-31 Jan: 27.
159. Mohaqiq M, Movahedin M, Mokhtari Dizaji M, Mazaheri Z. Increase of proliferation and colonization in mouse spermatogonial stem cell by low intensity ultrasound. The 2nd Annual Congress Stem Cells Research and Application, 22-23 May 2014: 58.
160. Hormozi Moghaddam Z, Mokhtari-Dizaji M, Movahedin M. Effect of acoustic cavitation on colonization and viability of mouse spermatogonial stem cells. MEFS 2018, 1-3 Nov, Beirut, Lebanon: O28.
161. Hormozi Moghaddam Z, Mokhtari-Dizaji M, Nilforoshzade MA, Bakhshandeh M. Effect of adipose\_derived mesenchymal stem cells on healing of skin radiation-induced

injury in guinea pig model. 3rd International and 5th National Congress of Wound Healing and Tissue Repair 2018, 26-28 Sep: 14.

162. Hormozi Moghaddam Z, Mokhtari-Dizaji M, Nilforoshzade MA, Bakhshandeh M. A guinea pig model of acute skin injury using Mega Voltage radiotherapy. 3rd International and 5th National Congress of Wound Healing and Tissue Repair 2018, 26-28 Sep: 58.

163. Moradi S, Mokhtari- Dizaji M, Ghasemi F, Sheibani S, Asadi Amoli F. The effect of hyperthermia with 3 MHz ultrasound on the Y79 cell line of the ocular tumor of retinoblastoma. The 9th Annual Meeting of the Iranian Research Association for Vision and Ophthalmology 2019, iravo9/02: 1.

164. Hormozi-Moghaddam Z, Mokhtari-Dizaji M, Nilforoshzade MA, Bakhshande M. Low intensity ultrasound mechanical index as a parameter affecting of ability of proliferation and collagene type 1 expression of cells. Article 382, Volume 15, Special Issue-12th. Iranian Congress of Medical Physics, November and December 2018, Page 392-392.

165. Mobasheri M, Mokhtari-Dizaji M, Toliyat T, Mehrpour M. Dual frequency ultrasound-enhanced tissue plasminogen activator thrombolysis in an in vitro human clot model. Article 83, Volume 15, Special Issue-12th. Iranian Congress of Medical Physics, November and December 2018, Page 83-83.

166. Estaji M, Mokhtari-Dizaji M, Movahedin M, Padash A, Ghaffari Khaligh S. Study of the therapeutic effect of fullerene nanoemulsion on wrinkle repair of 57BL6 mouse animal model with high frequency imaging. Article 85, Volume 15, Special Issue-12th. Iranian Congress of Medical Physics, November and December 2018, Page 85-85.

167. Ahmadi Z, Mokhtari Dizaji M, Montaseri A. Relative brightness due to temperature changes with ultrasound image analysis during Radiofrequency ablation. Article 406, Volume 15, Special Issue-12th. Iranian Congress of Medical Physics, November and December 2018, Page 421-421.

168. Mehrad H, Mokhtari-Dizaji M, Ghanaati H, Torkaman G. Effect of combined high and low frequency sonication accompanied by high-dose atorvastatin administration and discontinuation of cholesterol-rich diet on mechanical parameters of carotid artery. *Atherosclerosis* 2018; 275: e135.

169. Mehrad H, Mokhtari-Dizaji M, Ghanaati H. Inertial cavitation bubbles-induced by combined high and low frequency ultrasound accompanied by discontinuation of cholesterol-rich diet for advanced atherosclerosis regression. *Atherosclerosis* 2017; 263: e155.
170. Mehrad H, Mokhtari-Dizaji M, Ghanaati H. Effect of high-dose atorvastatin therapy accompanied by discontinuation of cholesterol-rich diet on color-doppler ultrasonography parameters of atherosclerotic carotid artery. *Atherosclerosis* 2017; 263: e246.
171. Mehrad H, Mokhtari-Dizaji M, Ghanaati H. Investigating the feasibility of B-mode ultrasonography accompanied by PESDA microbubbles administration for accurate visualization of intraplaque neovascularization. *Atherosclerosis* 2016; 252: e194.
172. Mehrad H, Mokhtari-Dizaji M, Ghanaati H. Atherosclerotic soft plaque regression using transcutaneous low-level combined dual-frequency sonication accompanied by high-dose atorvastatin and pesda microbubbles administration. *Atherosclerosis* 2016; 252: e187.
173. Mosavi P, Mokhtari Dizaji M, Torkaman G. Using the resonance frequency of health and atrophic muscles in the treatment of atrophied muscle. 10th Interdisciplinary World Congress on Low Back & Pelvic Girdle Pain 2019; Belgium, Antwerp; 378: p73.
174. Rastegar K, Mokhtari Dizaji M, Harirchian MS, Hashemi H, Ayoobi Yazdi N, Saberi H. Extraction of longitudinal displacement's changes of the common carotid artery wall in healthy subjects and patients with multiple sclerosis using ultrasound images. 16<sup>th</sup> Iranian International Congress on Multiple Sclerosis 2019; Mashhad: 100-101.
175. Mohaqiq M, Movahedin M, Mokhtari Dizaji M, Mazaheri Z. Increase of proliferation and colonization in mouse spermatogonial stem cell by low intensity. *Int J Pediatrics* 2014; 2 (2.3): 58-58.
176. Mehrad H, Mokhtari-Dizaji M, Ghanaati H. Development of an atherosclerotic fibro-lipid plaque with neovascularization and severe stenosis in rabbit carotid artery, monitored by ultrasonography and histopathology. *Int J Stroke* 2014; 9 (3): 138-139.
177. Mehrad H, Mokhtari-Dizaji M, Ghanaati H. Transcutaneous combined dual-frequency ultrasonication accompanied by high-dose atorvastatin administration reduce the atherosclerotic stenosis in rabbit carotid artery. *Int J Stroke* 2014; 9 (3): 109.
178. Ahmadi ZS, Mokhtari-Dizaji M, Sadeghpour A, Khesali H. Non-invasive evaluation of left ventricular myocardial wall stress component in patients with saline stenosis coronary using echocardiographic image processing. 6<sup>th</sup> Congress on ASI 2020, Winter: 5.

179. Mortazavi S, Mokhtari-Dizaji M. Investigation of linear and nonlinear behavior of high intensity focal ultrasound waves (HIFU). 7<sup>th</sup> Congress on ASI 2021, Winter: 35.
180. Sahidani A, Mokhtari-Dizaji M. Modeling of microbubble oscillation in microvessels containing incompressible fluid. 7<sup>th</sup> Congress on ASI 2021, Winter: 37.
181. Mohammadi S, Movahedin M, Mokhtari-Dizaji M. Determination of optimal parameters of ultrasound radiation on the process of spermatogenesis of testicular tissue in neonatal mice. 7<sup>th</sup> Congress on ASI 2021, Winter: 38.
182. Moradi S, Sheibani S, Mokhtari Dizaji M, Ghassemi F, Amoli FA, Arjmand M.  
Evaluation of treatment process in reducing retinoblastoma tumor size using iodine-125 plaque brachytherapy in animal model of rabbit. Eur J Nuclear Med Mol Imaging 2021; 48 (Suppl 1): 518. 34<sup>th</sup> annual congress of the European association of nuclear medicine EANM21 20-23 Oct 2021
183. Moradi S, Sheibani S, Mokhtari Dizaji M, Ghassemi F, Amoli FA, Arjmand M. Dosimetry of iodine-125 eye plaque in brachytherapy of retinoblastoma tumor in animal model of rabbit. Eur J Nuclear Med Mol Imaging 2021; 48 (Suppl 1): 399. 34<sup>th</sup> annual congress of the European association of nuclear medicine EANM21 20-23 Oct 2021
184. Motiee SM, Momeni-Masuleh SH, Mokhtari-Dizaji M. Observation of acoustic cavitation in opening the blood-brain barrier and discontinuous Galerkin method. 8<sup>th</sup> Congress on ASI 2022, Spring : 43.
185. Talebian Darzi S, Mokhtari-Dizaji M, Ayoobi Yazdi N. Shear modulus parameter of liver tissue using sequential ultrasound images: block matching algorithm. 8<sup>th</sup> Congress on ASI 2022, Spring : 47.
186. Samanipour S, Mokhtari-Dizaji M, Malek Mahrouz. Extracting the mechanical behavior of ovaries in endometrioma patients using ultrasound images. 8<sup>th</sup> Congress on ASI 2022, Spring : 48.
187. Ordoni J, Mokhtari-Dizaji M, Mazdarani H, Mahdavi SR. 1 MHz sonication on two breast cancer cell lines in order to investigate the rate of cell death in the presence and absence of gold nanoparticles: Sonodynamic therapy. 8<sup>th</sup> Congress on ASI 2022, Spring : 50.
188. Shahidani A, Mokhtari-Dizaji M, Shankayi Z, Najafi M. Evaluation of ultrasound images of glioblastoma tumor with conventional MR images in rat animal model. 5<sup>th</sup>

International Preclinical Imaging Symposium 2022, 17-18 Aug, Tehran University of Medical Sciences: 1-4.

189. Hormozi Moghaddam Z, Mokhtari-Dizaji M, Nilforoshzade MA, Bakhshandeh M High-resolution ultrasound imaging for non-invasive characterization of acute wound healing in a radiation-induced skin damage guinea pig model. 5<sup>th</sup> International Preclinical Imaging Symposium 2022, 17-18 Aug, Tehran University of Medical Sciences: 1-3.

190. Shahidani A, Mokhtari-Dizaji M, Shankayi Z, Najafi M. The effect of ultrasound irradiation mode on microbubble oscillation dynamics inside a microvessel containing incompressible fluid: a numerical study. 9<sup>th</sup> Congress on ASI 2022, Spring : 2.

191. Khodadadi A. Mokhtari-Dizaji M, Ghalehtaki R, Ayoobi Yazdi N. Extraction of sensitivity of absorbed dose-shear wave velocity and Young's modulus by processing ultrasound images of the sternocleidomastoid muscle. 9<sup>th</sup> Congress on ASI 2022, Spring : 7.

192. Sadeghi Goghri O, Mokhtari Dizji M, Saberi H, Naseri R, Yousefi A. A new method in extracting lung wall compressibility using ultrasound image processing: gradient algorithms and block matching. 9<sup>th</sup> Congress on ASI 2022, Spring : 15.

193. Ordoni J, Mokhtari-Dizji M, Mazdarani H, Mahdavi SR. Investigating dual-frequency versus single-frequency sonication on the rate of breast cancer cell death in the presence and absence of gold nanoparticles. 9<sup>th</sup> Congress on ASI 2022, Spring : 37.

194. Khodadadi A. Mokhtari-Dizaji M, Ghalehtaki R. The elasticity of the Sternocleidomastoid muscle before and at the end of three-dimensional conformal radiotherapy. 38<sup>th</sup> Iranian Congress of Radiology (ICR) 2023; 9-12 May: 126-127.

195. Shahidani A, Mokhtari-Dizji M. Modeling microbubble oscillation in microvessel containing incompressible fluid. 8<sup>th</sup> Congress on ASI 2022, Spring : 37.

196. Shahidani A, Mokhtari-Dizaji M, Shankayi Z, Najafi M. Simulation of safe parameters for blood brain barrier opening in rat animal model. 6<sup>th</sup> Annual International TPCF Preclinical Imaging Symposium 2023, Frontiers in Biomedical Technologies 8-9 Nov 2023, Vol. 12, No. Supple 1 (Winter 2025): 83-84.

197. Talebian Darzi S, Mokhtari-Dizaji M, Ayoobi Yazdi N. Evaluation of Liver Tissue Stiffness in Non-Alcoholic Fatty Liver Disease Using the Imaging Technique of Acoustics Radiation Force Impulse (ARFI). 6<sup>th</sup> Annual International TPCF Preclinical Imaging

Symposium 2023, *Frontiers in Biomedical Technologies* 8-9 Nov 2023, Vol. 12, No. Supple 1 (Winter 2025): 6. <https://fbt.tums.ac.ir/index.php/fbt/issue/view/51>

198. Shahidani A, Mokhtari-Dizaji M, Shankayi Z, Najafi M. Evaluation of Glioblastoma Tumor Volume of MR Images with Modified Ellipsoidal Formula in Rat Animal Model. 6th Annual International TPCF Preclinical Imaging Symposium 2023, *Frontiers in Biomedical Technologies* 8-9 Nov 2023, Vol. 12, No. Supple 1 (Winter 2025): 85-86.

199. Shahidani A, Mokhtari-Dizaji M, Shankayi Z, Sadeghi O, Najafi M. Brain stimulation using ultrasound waves to induce reversible permeability of the blood-brain barrier: an animal study. 10<sup>th</sup> Int Conf Cognitive Sci 2024 (15-17 May); 2024: 301-302. [https://iccs.icss.ac.ir/files\\_site/files/r\\_21\\_240519135317.pdf](https://iccs.icss.ac.ir/files_site/files/r_21_240519135317.pdf)

200. Shahidani A, Mokhtari-Dizaji M, Sadeghi O, Shankayi Z. Evaluation of temozolomide drug concentration in blood plasma for treatment of glioblastoma tumor: an animal study. 12 Basic and Clinical Neuroscience Congress 2023 (27-29 Dec); 2023: 853-854. <https://bcncongress.ir/MckUpload/file/BCNC2024/BCNC2023%20Abstract%20Book.pdf>

201. Shahidani A, Mokhtari-Dizaji M, Shankayi Z, Najafi M. RASDA microbubbles preparation: contrast agent for ultrasound imaging and therapy. 7th international conference on preclinical imaging applications (TPIC2024) (7-8 Nov); 2024: 1-3. <https://tpcf.ir/uploads/files/4TPIC%202024-book.pdf>

202. S. Moradpour, M. Mokhtari-Dizaji, T. Toliyat, A. Almanie. Microbubble and Ultrasound Assisted Photodynamic Therapy of Breast Adenocarcinoma. 6th Annual International TPCF Preclinical Imaging Symposium 2023, *Frontiers in Biomedical Technologies* 8-9 Nov 2023, Vol. 12, No. Supple 1 (Winter 2025): 45.

203. M. Mokhtari-Dizaji, M. Estaji, M. Movahedin, S. Ghaffari Khaligh. The Effect of Long-Term Ultraviolet Radiation on Trichoepithelioma Cancer in Mouse Animal Model. 14<sup>th</sup> National Congress of Anatomical Sciences 2024 (23-25 Oct); 2024: 250.

204. S. Shurche, M. Mokhtari-Dizaji, M. Movahedin, M.A. Nilforoshzade, E. Taghiabadi. High-resolution ultrasound imaging for non-invasive characterization of androgenetic alopecia on male c57bl/6 mice skin tissue. A non-invasive approach to characterizing androgenetic alopecia in mice. 7th international conference on preclinical imaging applications (TPIC2024) (7-8 Nov); 2024: 1-2.

205. S. Shurche, M. Mokhtari-Dizaji, M. Movahedin, M.A. Nilforoshzade, E. Taghiabadi. The Effect of Administration of Platelet-Rich Plasma on the Treatment of Androgenetic Alopecia in the In Vivo Model of C57BL/6 Male Mice. 14<sup>th</sup> National Congress of Anatomical Sciences 2024 (23-25 Oct); 2024: 253.
206. A. Almanie, M. Mokhtari-Dizaji, Z. Shankayi, Z. Hormozi Moghadam, A. Shahidani. Pressure attenuation and temperature increase in transcranial ultrasound: a simulation study. 7th International Conference on Preclinical Imaging Applications (TPIC2024) (7-8 Nov); 2024: 1-2.
207. Z. Jafariyan, M. Mokhtari-Dizaji, B. Shalbfan. Assessment of muscle elasticity in DMD patients using ultrasound and Young's modulus. *Front Biomed Technol* 2026; 13 (Supp 1): 49.
208. Almanie A, Mokhtari-Dizaji M, Shankayi Z, Hormozi Moghadam Z. Comparative analysis of microbubbles with distinct elasticity and viscosity properties: Implications for Blood-Brain Barrier dynamics. 13th International Congress of Medical Physics 2025; 19-20 Feb, Tehran, Iran: 67.
209. Shurche S, Mokhtari-Dizaji M, Movahedin M, Nilforoshzade MA, Taghiabadi E. Investigation of the Effects of Low-Intensity Ultrasound Radiation in the Treatment of Androgenetic Alopecia in Male C57BL/6 Mice. 13th International Congress of Medical Physics 2025; 19-20 Feb, Tehran, Iran: 35.
210. Sameerah Hasan Abdullah, Manijhe Mokhtari-Dizaji, Zeinab Hormozi-Moghaddam, Mohsen Bakhshandeh. Mohammad Ali Nilforoshzadeh. The Effects of low-level laser Combined PRP and PRGF on Human Dermal Fibroblast Cell Proliferation and changing ATP and ROS In Vitro Study. The First International Conference On Laser Applications in Medicine and Surgery 2025; Al Najaf Al Ashraf, Iraq: 1.
211. Ameneh Kariti, Manijhe Mokhtari-Dizaji, Zeinab Hormozi Moghadam, Ali Mansouri Ghiasi, Sahar Ghaffari Khaligh. The First International Conference On Laser Applications in Medicine and Surgery 2025; Al Najaf Al Ashraf, Iraq: 2.
212. Payam Radaie, Fariba Ganji, Shohreh Mshayekhan, Manijhe Mokhtari-Dizaji, Ebrahim Vasheghani-Farahani, Fatemeh Bagheri. Comparative Study on Laser- and Ultrasound-Induced Drug Release from Polydopamine nanoparticles. The First International Conference On Laser Applications in Medicine and Surgery 2025; Al Najaf Al Ashraf, Iraq: 3.

213. Ahlam Almanie, Manijhe Mokhtari-Dizaji, Zeinab Shankayi, Zeinab Hormozi-Moghaddam. Assessing Thermal Damage During Transcranial Ultrasound: A Simulation Study. The First National Conference on Modern Paramedical Sciences 2025: 178.

214. Shalbfan, Bita, Mokhtari Dizaji, Manijhe, Tajik Jalairi Mohammad Taghi, Hosseini Seyed Ahmad, Jafarian Zahra, Shahidani Akram, Sadeghi Omid. Ultrasound-Assisted Exosome Delivery for Improving Muscle Biomechanics in Duchenne Muscular Dystrophy: A Comparative Clinical Study. The ISEV 2 nd Symposium on EVs Nervous Systems 2025: 73.

#### RESEARCH STUDENTS SUPERVISED and ADVISOR

1	Alireza Taghi	M.Sc.(1999)	2	Bahram Yosefian	M.Sc.(1999)
3	Fariborz Manteghi	M.Sc.(1999)	4	Mohamad Reza Vahed	M.Sc.(2000)
5	Mahboobeh Rais-Danai	M.Sc.(2000)	6	Nasim Kashef	M.Sc.(2001)
7	Negah Nikanjam	M.Sc.(2002)	8	Javad Hasanzadeh- Bagi	M.Sc.(2003)
9	Hamid Hassankhani	M.Sc. (2003)	10	Asghar Khooshkar	M.Sc.(2003)
11	Shahab Shahim	M.Sc.(2003)	12	Maryam-Rahelleh Dadrass	M.Sc. (2005)
13	Mehdi Haji-Sadeghi	M.Sc. (2006)	14	Hamid Zargari	M.Sc. (2005)
15	Tavoos Rahmani	M.Sc. (2005)	16	Maryam Shahidi	Ph.D. (2004)
17	Tinna Gorjiarra	M.Sc. (2005)	18	Ali-Asgar Yosefi-Diba	M.Sc. (2005)
19	Farhad Morteza-zade	M.Sc. (2004)	20	Hassan Moladoust	PhD (2009)
21	Amir-Hoshang Baratia	PhD (2006)	22	Mehrvan Rafati	PhD (2010)
23	Atossa Montaseri	M.Sc. (2006)	24	Mahmood Montazeri	MD (2005)
25	Saeed Rahgozar	M.Sc. (2005)	26	Nargess Mokhlesian	M.Sc. (2006)

27	Shahriar Shahbazi	M.Sc. (2008)	28	Hadi Hasanzade	PhD (2010)
29	Tavoos Rahmani	PhD (2011)	30	Hossein Mehrad	PhD (2012)
31	Farzane Shekholeslami	PhD (2009)	32	Hassan Zaki-Dizaji	PhD (2009)
33	Hamid-Reza Miri	PhD (2011)	34	Zahra Soleimani	M.Sc. (2009)
35	Mahbobe Alamolhoda	M.Sc. (2010)	36	Homma Soleimani	PhD (2011)
37	Ali Ebrahiminia	PhD (2013)	38	Bahram Yosefian	PhD (2012)
39	Effat Soleimani	M.Sc. (2011)	40	Zahra Arab Baferani	M.Sc. (2011)
41	Effat Soleimani	PhD (2017)	42	Fatemeh Mirzaie	M.Sc. (2011)
43	Hossein Masomi	PhD (2015)	44	Mosayeb Mobasheri	M.Sc. (2012)
45	Roya Samanipor	M.Sc. (2011)	46	Rohollah Mehrnia	M.Sc(Current)
47	Sajad Moradpoor	M.Sc (2015)	48	Mohamad Ehsan Ravari	M.Sc. (2014)
49	Zaynab Amirifallah	PhD (2018)	50	Mosayeb Mobasheri	PhD (2019)
51	Alireza Mohammadkarim	PhD (2017)	52	Mehdi Mohaghegh	M.Sc (2013)
53	Marzieh Tamadon	M.Sc (2016)	54	Simma Ghorbani	M.Sc (2016)
55	Zaynab Hormozi	M.Sc (2014)	56	Fatemeh Vaelli	M.Sc (Curent)
57	Ebrahim Adelnia	PhD (2019)	58	Zohreh Goleh	M.Sc(2016)
59	Neda Goharpay	M.Sc (2016)	60	Somayeh Javaherian	M.Sc(2016)
61	Mehdi Ramezani poor	M.Sc (2015)	62	Maryam Khaodadadi	M.Sc(2016)
63	Maryam Garashi (Sharif)	PhD (2019)	64	Hammid Ekrami	M.Sc (2015)
65	Farzaneh Mokhtari (Zanjan)	M.Sc (2014)	66	Sanaz Poshtmahi	M.Sc (2017)
67	Aref Dianati	M.Sc (2017)	68	Zaynab Hormozi	PhD (2020)
69	Maryam Ansari	M.Sc (2016)	70	Mehdi Samandari	PhD (2017)
71	Mohammad Javad Khosravani	PhD (2021)	72	Somayeh Moradi	PhD (2019)

73	Fatemeh Bagbani	PhD (2017)	74	Fatemeh Khosravi	M.Sc(2019)
75	Mohadeseh Estaji	M.Sc (2018)	76	S. Pouria Mosavi	M.Sc(2019)
77	Sima Mohammadi Amoli	M.Sc (2015)	78	Sareh Mortazavi	M.Sc(2019)
79	Parastoo PourAsbagi	M.Sc(2020)	80	Kimia Rastegari	M.Sc(2019)
81	Hossein Amiri	PhD (2024)	82	Zainab Ahmadi	PhD (2021)
83	Parinaz Omidi	M.Sc (2017)	84	Vali Allah Fagih	MSc (2023)
85	Negar Sharifi	M.Sc(2019)	86	Sima Mohammadi Amoli	PhD (2020)
87	Shaghayegh Mohammadi	M.Sc(2020)	88	Sedigheh Talebian	M.Sc(2023)
89	Shima Samanipour	M.Sc(2023)	90	Jalal Ordoni	PhD (2025)
91	Akram Shahidani	PhD (2025)	92	---Fathi	MSc (2020)
93	Mahshid Givarian	MSc (2020)	94	Asma Khodadadi	MSc (2023)
95	Omid Sadeghi	MSc (2024)	96	Samire Hassan Abdollah	PhD (2025)
97	Hassan Tamartash	PhD (2022)	98	Hadil Sabah	M.Sc(2024)
99	....Hassanpour	MSc (2023)	100	Mohammad Hassan Taleghani	MSc (2022)
101	Arghavan Shahla	MSc (2024)	102	Saede Azizkhani	MSc (Current)
103	Ahlam Almani	PhD (Current)	104	Somaieh Samyari	PhD (Current)
105	Lais Rabiee	PhD (Current)	106	Sadegh Shorcheh	PhD (2025)
107	Narges Babaian	MSc (2024)	108	Nafiseh Babaian	MSc (2024)
109	Somaieh Motiee	PhD (Current)	110	Zahra Jafarian	MSc (2025)
111	Ameneh Sabah	MSc (2025)	112	Fatemeh Ganjizadeh	MSc (Current)
113	Hanieh Baharlouie	MSc (Current)	114	Negin Shams	MSc (Current)
115	Kian Abed	MSc (Current)	116	Amir Saemian	MSc (Current)
117	Fatemeh Ebrahimi	MSc (Current)	118	Masomeh Rezaie	PhD (Current)
119	.....Mostafavi	PhD	120	Noor Mazhar	PhD (Current)

		(Current)			
121	Maedeh Bakhshi Jifrodi	MSc (Current)	122		

## PATENTS

1. Zaki Dizaji H, Mokhtari Dizaji M, Ultrasound Quality Fruit. No. 43154; 1386.07.16.
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.
5. Goharpay N, Mokhtari-Dizaji M, Bakhshandeh M. Ultrasound phantom gel equivalent to soft tissue for three dimensional dosimetry of ionizing radiation. No. 91306; 2017.02.14. 1396277, Doi: 10.22104/IRUST.
6. Soleimani E, Mokhtari-Dizaji M, Supercharger probe hold and hold device for making 3D carotid arterial geometry without hand involvement. No. 91516; 2017.03.17.
7. Poshtmahi S, Mokhtari-Dizaji M, Giti Torkaman. Ointment containing collagen - silver nanoparticles with low intensity ultrasound radiation to heal deep second degree burns. No. 96839; 2018.09.30.

## Books

1. W R Hedrick, D L Hykes, D E Starchman. Ultrasound Physics and Instrumentation. Translated by M. MokhtariDizaji, E. Soleimani. Etminan pub, www.etminanpub.com. May, 2015.
2. B M Lempriere. Ultrasound and Elastic waves. Translated by M. Mokhtari-Dizaji, E. Soleimani. Tarbiat Modares University Press, May 2016.

## COURSES TAUGHT

	A. Undergraduate	B. Graduate (M.Sc.)	C. Postgraduate (PhD)
1	Sound and Audiometry	Light and Visual Physics	Laser

2	Applied Physics	Medical Physics	Biopotential
3	Medical Physics	Biology	Biomechanics
4	Radiology	Laboratory Instruments	Anatomy Radiology
5	Biochemistry and Biophysics	High Frequency Currents	Physical Principles of Ultrasonography
6	Medical Engineering	Bioelectricity	Interaction of Laser-Tissue
7	Mechanical Physics	Diagnosis of Ultrasound	Biophysics
8	Electromagnetic fields	Biophysics	Medical Imaging
9		Ultrasonotherapy	Electromagnetic fields
		Laser	
		Radiology	
		Biopotentials	
		Quality control	

### **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.
11. The better selected researcher in Tarbiat Modares University for book, 2016.
12. The better selected researcher in Tarbiat Modares University for Patent and Article 1% JCR, 2018.
13. Selected Second Woman and Science Festival: Maryam Mirzakhani Award, 2019 (1398).
14. Distinguished University Professor, . The better selected Teacher in Tarbiat Modares

University, 1404

15. Distinguished University Professor, . The better selected Teacher in Tarbiat Modares University, 1378.

16. Best Book of 2016 (Elastic Waves and Ultrasound) (1395)