## << Curriculum Vitae >>

Name: Mohsen Ostovari

**D.O.B:** 4 January 1984

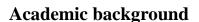
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• PhD, Medical Physics (Imaging),

Ahvaz Jundishapour University of Medical science, Ahvaz, Iran, (2013-2017).

Thesis title:" Evaluation of the use of gold nanoparticles to improve image contrast in magnetic resonance electrical impedance mammography "

Supervisor: Dr. Mansour Zabihzadeh

• MSc, Physics (Atomic and Molecular physics),

Shiraz University, Shiraz, Iran, (2009-2011).

Thesis title: "Dynamics of Entanglement between photons and Pi-electrons in

Graphene"

Supervisor: Dr. Mohammad Mehdi Golshan

• BSc, Physics (Solid State physics),

University of Kordestan, sanandaj, Iran, (2004-2008).

## **Teaching Experiences:**

Optics of Vision
Laser and its application in Medical
M.Sc. Students of Medical Physics
M.Sc. Students of Medical Physics

Sciences

• Basic principles of data processing and M.Sc. Students of Medical Physics

computer simulation

Mathematics
M.Sc. Students of Medical Physics

• Atomic and nuclear physics M.Sc. Students of Medical Physics

• Ultrasound and diagnostic sonography M.Sc. Students of Medical Physics

Acoustics and Physics of hearing B.Sc. Students of Audiology



- Acoustics and Physics of Speech
- Introduction to basics of radiology in the operating room
- Medical physics, electricity, and robotics and their application in the operating room
- Physics in anesthesia
- Special physics 1
- Special physics 2
- Solid mechanics
- Radiology, sonology, and electrology in obstetrics & gynecology
- Basic physics lab. II
- Basic physics I
- Basic physics II
- General physics
- Classical Mechanics

- B.Sc. Students of Speech Therapy
- B.Sc. Students of Operating Room Technology
- B.Sc. Students of Operating Room Technology
- B.Sc. Students of Anesthesia Technology
- B.Sc. Students of Occupational Health
- B.Sc. Students of Occupational Health
- B.Sc. Students of Occupational Health
- B.Sc. Students of Midwifery
- B.Sc. Students of Physics, Electrical Engineering & Mechanical Engineering
- B.Sc. Students of Physics
- B.Sc. Students of Physics
- B.Sc. Students of Mechanical Engineering
- B.Sc. Students of Mechanical Engineering

## **Publications:**

- Moradi F, Akbari M, Vakili-Ghartavol R, Ostovari M, Hadi N. Molecular characterization of superbugs K. pneumoniae harboring extended-spectrum β-lactamase (ESBL) and carbapenemase resistance genes among hospitalized patients in southwestern Iran, Western Asia. Heliyon. (2024) Sep 15;10(17).
- Vahidian, A., Momayezan Marnani, P., Mehdizadeh, A. et al. Evaluating the effect of glycerol on increasing the safety and efficiency of hyperthermic laser lipolysis. Lasers Med Sci 39, 84 (2024). https://doi.org/10.1007/s10103-024-04029-8
- Shirazi, M., Eslahi, A., Ostovari, M., Ahmed, F., Zaid, A., Askarpour, M. R., Nikbakht, H.-A., Gholami, Z., & Shirazi, S. (2023). Reference value of testicular temperature measured by finite element analysis after first staged inguinal orchidopexy in children with abdominal testis and short spermatic cord. Archivio Italiano Di Urologia E Andrologia, 95(3). <a href="https://doi.org/10.4081/aiua.2023.11528">https://doi.org/10.4081/aiua.2023.11528</a>
- Ostovari M, Haghani M, Mortazavi SA, Mortazavi SM. Are Blue-Cut Lenses Safe for Children? Potential Effects on Eye Length and Refractive Disorders. Journal of Biomedical Physics and Engineering. (2023) May 15.
- Ostovari, M., Zabihzadeh, M., Riahi-Alam, N., Momen-Gharibvand, M. Measurement of Electrical Properties of Tissues with and without Gold Nanoparticles (GNPs) At Different Temperatures. Journal of Nanostructures, (2023); 13(2): 442-452. doi: 10.22052/JNS.2023.02.014
- A. Rezaeian, M. Ostovari, M. Hoseini-Ghahfarokhi, and H. Khanbabaei, Diffusion-weighted magnetic resonance imaging at 1.5 T for peripheral zone prostate cancer: the

- influence of the b-value combination on the diagnostic performance of apparent diffusion coefficient. Polish Journal of Radiology, (2022); 87(1), pp.215-219.
- Z. Mohebbi, R. Ershadpoor, M. Ostovari, and M. Rakhshan, "Radiation Protection Capability of Operating Room Personnel: Development and Psychometric Properties of a Questionnaire", Journal of Biomedical Physics & Engineering 11, no. 5 (2021): 603.
- A. Fazelzadeh, M. Faraz, AR. Mehdizadeh, Z. Mohebbi, M. Ostovari, "Photogrammetric Facial Analysis of Rhinoplasty Applicants in Shiraz", Journal of Otorhinolaryngology and Facial Plastic Surgery. (2021);7(1).
- S. Abbasi, M. Khosravi, AR. Mehdizadeh, M. Ostovari, "A Novel Adjustable Anthropomorphic Head Phantom for Verifying the Dose of Radiation Therapy", Journal of Biomedical Physics & Engineering, (2020)
- M. Ostovari, N. Riahi Alam, M. M. Gharibvand, M. Hoseini, M. Zabihzadeh, "Evaluation of the use of gold nanoparticle as contrast agent in electrical impedance imaging", Iranian Journal of Medical Physics 15, 53-53 (2018).
- M. Ostovari, N. Riahi Alam, M. M. Gharibvand, A. Danyaei, M. Zabihzadeh, "Improvement ability of EIT for Thermal monitoring during Thermal Therapy by gold nanoparticles", Iranian Journal of Medical Physics 15, 58-58 (2018).
- M. Ostovari, N. Riahi Alam, M. Zabihzadeh, M. Momen Gharibvand, M. Hoseini, "Effect of Gold Nanoparticle on Electrical Impedance of Tissue in Low Frequency Ranges", Journal of Biomedical Physics and Engineering (2018).
- S. Rezaei, N. Riyahi Alam, M. Ostovari, "Gd-based nanoparticles mediated Magnetic Field Enhancement inside Homogenous Tissue: Simulation using Finite Element Method", World congress on Medical Physics and Biomedical engineering, pages 99-102, Toronto, Canada (2015)
- M. Ostovari, A. Alipour, A. R. Mehdizadeh, "Entanglement between Bio-Photons and Tubulins in Brain: implications for memory storage and information processing", *NeuroQuantology*, vol 12, N0 3 (2014).
- S. Rezaei, M. Ostovari, N. Riyahi Alam, "Simulation of Gd.based Nanoparamagnetic Particles Mediated Magnetic Field Enhancement inside Homogenous Tissue in External Magnetic Field: using Finite Element Method", 4<sup>th</sup> International Conference on Superconductivity and Magnetism (ICSM 2014).
- M. Ostovari, A. Alipour, A. R. Mehdizadeh, "Entanglement between Ultra-weak Photon Emissions and Tubulins in Brain", 2<sup>th</sup> Basic and Clinical Neuroscience Congress (BCNC 2013).
- M. Ostovari, R. Safaiee and M.M. Golshan, "Dynamics of Entanglement between Linearly Polarized Photons and π-Electrons in Graphene", International Journal of Optics and Photonics (IJOP), Vol. 6, No. 1, (2012).
- M. Ostovari, M. M. Golshan, "Effect of polarization of photon on entanglement between photons and Pi-electrons in Graphene", 13<sup>th</sup> congress of nanothecnology Graduates, Tehran, Iran (2013).
- M. Ostovari, R. Safaiee and M.M. Golshan, "Dynamics of entanglement between photons and Pi-electrons in Graphene", Proceeding of International Conference on statistical physics, page 117, Larnaca, Cyprus (2011).

## **Lectures:**

- "Optics, Laser and Vision", 2th summer school on Biomedical Engineering & Advanced Technology, Shiraz University of Medical Science, 14-17 Aug 2017, Shiraz, Iran.
- "Quantum Entanglement in Graphene", Conference on Physics of novel material, Shiraz University, October 2011, Shiraz, Iran.