
RESEARCH PUBLICATIONS

Journal Publications

2020

1. Alqahtani, M., E.H. Mirza, A. Almutrafi, A. Aldawsari, and R. Javed, *Elastographic Measurement of Strain Ratio in Finger Tendons of Weight Lifters and Non-Weight Lifters*. Journal of Medical Imaging and Health Informatics, 2020. **10**(7): p. 1520-1524.

2019

2. Al-Qahtani, M., S. Al-Tayyar, E.H. Mirza, A. Al-Musallam, A. Al-Suwayyid, and R. Javed, *Body Mass Index and Segmental Mass Correlation With Elastographic Strain Ratios of the Quadriceps Tendon*. Journal of Ultrasound in Medicine, 2019. **38**(8): p. 2005-2013.
3. Eraj Humayun, M., K. Aftab Ahmed, A.A.K. Abdulaziz, S. Selma Adnan, M. Badreldin Abdelrhman, F. Fatima, K. Muhammad Muzammil, A. Musaad, A.-F. Randa, V. Pekka, and M. Amer, *Characterization of osteogenic cells grown over modified graphene-oxide-biostable polymers*. Biomedical Materials, 2019.
4. Khan, A.A., E.H. Mirza, B.A. Mohamed, M.A. El-Sharawy, M. Hasil Al-Asmari, A. Abdullah Al-Khureif, M. Ahmad Dar, and P.K. Vallittu, *Static and dynamic mechanical properties of graphene oxide-based bone cementing agents*. Journal of Composite Materials, 2019: p. 0021998319826347.
5. KHAN, A.A., B.A. MOHAMED, E.H. MIRZA, J. SYED, D.D. DIVAKAR, and P.K. VALLITTU, *Surface wettability and nano roughness at different grit blasting operational pressures and their effects on resin cement to zirconia adhesion*. Dental materials journal, 2019: p. 2018-137.

2018

6. Al-Qahtani, M., S. Al-Tayyar, E.H. Mirza, A. Al-Musallam, A. Al-Suwayyid, and R. Javed, *Body Mass Index and Segmental Mass Correlation With Elastographic Strain Ratios of the Quadriceps Tendon*. Journal of Ultrasound in Medicine, 2018.
7. Al-Qahtani, M., E. Aljaser, A. Alajmi, O. Altwijri, and E.H. Mirza, *Effect of Training on Stiffness of Distal Biceps Tendon: A Pilot Study*. Kuwait Medical Journal, 2018. **50**(2): p. 220-225.
8. Khan, A.A., E.H. Mirza, B.A. Mohamed, N.H. Alharthi, H.S. Abdo, R. Javed, R.S. Alhur, and P.K. Vallittu, *Physical, mechanical, chemical and thermal properties of nanoscale graphene oxide-poly methylmethacrylate composites*. Journal of Composite Materials, 2018. **52**(20): p. 2803-2813.

2017

9. Khan, A.A., A.Z. Siddiqui, S.F. Mohsin, M.M. Al Momani, and E.H. Mirza, *Impact of network aided platforms as educational tools on academic performance and attitude of pharmacology students*. Pakistan journal of medical sciences, 2017. **33**(6): p. 1473.
10. Mirza, E.H., A.A. Khan, M.A. El-Sharawy, A. Al-Khureif, S. Al-Hijji, K.A. Al-Omair, and K.A. Khalil, *Physical, mechanical, thermal, and dynamic characterization of carbon nanotubes incorporated poly(methyl methacrylate)-based denture implant*. Journal of Composite Materials, 2017. **51**(28): p. 3931-3940.
11. Khan, A.A., E.H. Mirza, J. Syed, A. Al-Khureif, A. Mehmood, P.K. Vallittu, and R. Alfotawi, *Single and Multi-Walled Carbon Nanotube Fillers in Poly(methyl methacrylate)-Based Implant Material*. Journal of Biomaterials and Tissue Engineering, 2017. **7**(9): p. 798-806.
12. Rez, M.F.A., A. Binobaid, A. Alghosen, E.H. Mirza, J. Alam, H. Fouad, M. Hashem, H. Alsalman, H.M. Almalak, and A. Mahmood, *Tubular Poly (ϵ -caprolactone)/Chitosan Nanofibrous Scaffold Prepared by Electrospinning for Vascular Tissue Engineering Applications*. Journal of Biomaterials and Tissue Engineering, 2017. **7**(6): p. 427-436.

2016

13. Al-Qahtani, M., A. Al-Zahrani, A. Al-Mujalli, and E.H. Mirza, *Influence of BMI on Elastographic Strain Ratios of Achilles Tendon*. Journal of Biomedical Engineering and Medical Imaging, 2016. **3**(2): p. 14.
14. Khan, A.A. and E.H. Mirza, *Influence of Trainee Characteristics on Acquired Pharmacology Knowledge of Dental Professionals: A Pilot Study*. Indian Journal of Pharmaceutical Education and Research, 2016. **50**(3): p. S280-S285.
15. Al-Qahtani, M. and E.H. Mirza, *Thickness of Achilles Tendon is BMI Dependant*. Journal of the College of Physicians and Surgeons Pakistan, 2016. **26**(9): p. 803-804.

2015 and Earlier

16. Mirza, E.H., C. Pan-Pan, W. Ibrahim, W.M.A. Bin, I. Djordjevic, and B. Pingguan-Murphy, *Chondroprotective effect of zinc oxide nanoparticles in conjunction with hypoxia on bovine cartilage-matrix synthesis*. Journal of Biomedical Materials Research Part A, 2015.
17. Al-Qahtani, M., E.H. Mirza, M.D. Al-Qahtani, and M.F. Al-Muqati, *A Comparative Study of Shear-Wave Elastography and Strain Elastography on a Breast Phantom for Diagnosis of Tumor and Cyst*. Journal of Biomedical Engineering and Medical Imaging, 2015. **2**(3): p. 24.

18. Al-Qahtani, M., O. Altwijri, and E.H. Mirza, *Effect of Pore Size on Mechanical Integrity and Blood Flow in Polymeric Biomaterial via Computer Simulation Model*. Rev. Tec. Ing. Univ. Zulia, 2015. **38**(2): p. 47-52.
19. MIRZA, E., W. IBRAHIM, B. PINGGUAN-MURPHY, and I. DJORDJEVIC, *POLYOCTANEDIOL CITRATE-ZINC OXIDE NANO-COMPOSITE MULTIFUNCTIONAL TISSUE ENGINEERING SCAFFOLDS WITH ANTI-BACTERIAL PROPERTIES*. Digest Journal of Nanomaterials and Biostructures, 2015. **10**(2): p. 415 - 428.
20. Kompany, K., E.H. Mirza, S. Hosseini, B. Pingguan-Murphy, and I. Djordjevic, *Polyoctanediol citrate–ZnO composite films: Preparation, characterization and release kinetics of nanoparticles from polymer matrix*. Materials Letters, 2014. **126**: p. 165-168.
21. Wbin-Wan-Ibrahim, W.A., E.H. Mirza, and S.F. Akbar Ali, *Significance of herbal medicine in removing excessive iron content in human*. Pakistan journal of pharmaceutical sciences, 2013. **26**(4): p. 823-826.
22. Al-Rawi, A.H.M., W.M.A.B.W. Ibrahim, and E.H. Mirza, *DC feedback for wide band frequency fixed current source*. Journal of Electrical Bioimpedance, 2013. **4**(1): p. 33-37.

Conference Publications

1. Al-Qahtani M, Altwijri O, Mirza EH. Effect of pore size on mechanical attributes of bone mimicking biomaterial via computer simulation model. 2015.
2. Ibrahim BW, Azhar WM, Mirza E. Remote sensing electrocardiography. 2013. IEEE. p 1-3.
3. Ali SFA, Asif M, ul Hassan SN, Mirza EH. To Observe the Effects of Cystus-Sud on Mercury Concentration in Blood and Urine of Tobacco Smokers. 2013. Springer. p 126-129.
4. Ali SFA, Asif M, Mirza EH, ul Hassan SN. Reduction in Increased Cadmium Concentration from Human Blood and Urine of Cigarette Smokers by using Cystus-Sud. 2013. Springer. p 132-135.
5. ul Hassan SN, Ali SFA, Mirza EH. Surgical Arm Rest Using Novel Smart Material Based Fluid. International Conference on Advances in Electrical and Electronics Engineering. Pattaya; 2012. p 13-15.

6. Mirza EH, Ali SFA, Asif M, Azhar bin Ibrahim WM, Najam ul Hassan S. Evaluation of anti-corrosion properties of DLC coatings for medical devices. 2012 27-28 Feb. 2012. p 117-122.
7. Ibrahim B, Azhar WM, Ali SFA, Asif M, Mirza EH. Release of excessive iron concentration from human blood and urine of cigarette smokers by using Cystus-Sud. 2012. IEEE. p 133-138.
8. Ali SFA, Mehdi SU, Asif M, Hassan SNU, Mirza EH. Detection of Iron and Manganese Concentrations in Human Biological Fluid with Flame Atomic Absorption Spectroscopy (FAAS).