

Umar Ansari

Lecturer

School of Mechanical & Manufacturing Engineering

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About

Dr. Umar Ansari is working as Lecturer in the School of Mechanical & Manufacturing Engineering. Dr. Umar Ansari has a PhD in . Dr. Umar Ansari has published 22 research articles & conference papers having a citation count of 474, carried out 1 projects and filed 2 intellectual property.

Qualifications

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| PhD University of New South Wales , Australia | 2009 - 2013 |
| BE in Mechatronics NUST, Islamabad , Pakistan | 2003 - 2007 |

Experience

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| Lecturer School of Mechanical & Manufacturing Engineering | 2021- Present |
| Lecturer School of Mechanical & Manufacturing Engineering | 2019 - 2021 |
| Lecturer School of Mechanical & Manufacturing Engineering | 2013 - 2019 |
| Research Engineer NUST , College of E&ME | 2007 - 2008 |

Awards

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| Gold Medal | 2007 |
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Research Projects

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| National Projects | |
| Disaster Monitoring based on Swarm Strategy Funding Agency: AI Cell Institute of Space Technologies (IST) Amount: PKR 1,000,000.00 Status: Approved_inprocess | 2020 |

International Projects

Research Articles

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|---|------|
| The Impact of Laminations on the Mechanical Strength of Carbon-Fiber Composites for Prosthetic Foot Fabrication <i>Bakhtawar Sehar Muhammad Asim Waris Syed Omer Gilani Shafaq Mushtaq Niaz Bahadur Khan Umar Ansari Mohammed Jameel M. Ijaz Khan Omar T. Bafakeeh El Sayed Mohamed Tag-ElDin</i> <i>Crystals</i> , Volume 12, Issue 10, Article Number 1429 Impact Factor: 2.670 Quartile: 2 Citations: 74 DOI: https://doi.org/10.3390/cryst12101429 | 2022 |
| Development of Modular Framework for the Semi-Autonomous RISE Wheelchair with Multiple User Interfaces Using Robot Operating System (ROS) <i>Yasar Ayaz Ali Bin Wahid Usama Siraj Mohammad Affan Habib Ahmed Umar Ansari Muhammad Naveed Fahad Islam</i> <i>International Journal of Mechanical Engineering and Robotics Research</i> , Vol. 7, No. 5, Pages 515-520, September 2018 | 2018 |

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| Impact Factor: N/A Citations: 6 DOI: 10.18178/ijmerr.7.5.515-520 | |
| Aqua-gel pH sensor: intelligent engineering and evaluation of pH sensor based on multi-factorial testing regimes <i>Mariam Mir Murtaza Najabat Ali Umar Ansari Patrick J. Smith Amber Zahoor Faisal Qayyum Sabtain Abbas</i> <i>Sensor Review</i> , NULL Impact Factor: 1.264 Quartile: 3 Citations: 8 DOI: 10.1108/SR-06-2017-0104 | 2018 |
| Electromechanically Actuated Multifunctional Wireless Auxetic Device for Wound Management <i>Mariam Mir Umar Ansari Murtaza Najabat Ali Muhammad Hassan-ul-Iftikhar Faisal Qayyum</i> <i>IEEE Journal of Translational Engineering in Health and Medicine</i> , Volume 5, Article Number 2100110 Impact Factor: 1.754 Quartile: 3 Citations: 7 DOI: 10.1109/JTEHM.2017.2723465 | 2017 |
| A Biaxial Strain?Based Expansion Mechanism for Auxetic Stent Deployment <i>Faiza Bukhari Umar Ansari Murtaza Najabat Ali Hafsa Akhtar Sarim Asif Umer Mohammad Mariam Mir</i> <i>Journal of Applied Biomaterials & Functional Materials</i> , NULL Impact Factor: 1.397 Quartile: 3 Citations: 2 DOI: 10.5301/jabfm.5000326 | 2017 |
| Macro-Scale Model Study of a Tunable Drug Dispensation Mechanism for Controlled Drug Delivery in Potential Wound Healing Applications <i>Mariam Mir Mariam Mir Umar Ansari Murtaza Najabat Ali</i> <i>Journal of Applied Biomaterials & Functional Materials</i> , Volume: 15, Issue: 1, Pages: E63-E69 Impact Factor: 1.397 Quartile: 3 Citations: 12 DOI: doi:10.5301/jabfm.5000280 | 2017 |
| A Review on Biomechanical and Treatment Aspects Associated with Anterior Cruciate Ligament <i>Tehreem Jamil Umar Ansari Murtaza Najabat Ali Mariam Mir</i> <i>IRBM</i> , Volume: 38 Issue: 1 Pages: 13-25 Published: FEB 2017 Impact Factor: 0.897 Quartile: 4 Citations: 10 DOI: 10.1016/j.irbm.2016.10.002 | 2017 |
| New Biofunctional Loading of Natural Antimicrobial Agent in Biodegradable Polymeric Films for Biomedical Applications <i>Bakhtawar Ghafoor Murtaza Najabat Ali Umar Ansari Muhammad Faraz Bhatti Mariam Mir Hafsa Akhtar Fatima Darakhshan</i> <i>International Journal of Biomaterials</i> , Volume 2016, Article ID 6964938, 9 page Impact Factor: - Citations: 23 DOI: doi:10.1155/2016/6964938 | 2016 |
| To Develop a Biocompatible and Biodegradable Polymer-Metal Composite with Good; Mechanical and Drug Release Properties <i>Murtaza Najabat Ali Umar Ansari Javaria Sami Faisal Qayyum Mariam Mir</i> <i>Journal of Material Sciences and Engineering</i> , Volume 5, Issue 5, Pages 1-4 Impact Factor: 0 DOI: DOI:10.4172/2169-0022.1000274 | 2016 |
| Audio signal's test in designing a cost-effective hearing aid device using a microcontroller <i>Muhammad Zia-ur-Rehman Syed Irteza Ali Shah Muzzamil Javaid Syed Omer Gilani Umar Ansari</i> <i>International Journal of Biomedical Engineering and Technology</i> , Volume 20, Issue 3, Pages 195-207 Impact Factor: - Citations: 3 DOI: DOI:10.1504/IJBET.2016.075421 | 2016 |
| Structure and motility of the esophagus from a mechanical perspective <i>Mariam Mir Murtaza Najabat Ali Umar Ansari Javaria Sami</i> <i>Esophagus</i> , Volume 13, Issue 1, Pages 8-16 Impact Factor: 0.773 Quartile: 4 Citations: 12 DOI: DOI:10.1007/s10388-015-0497-1 | 2016 |
| Auxetic Polymeric Bone Stent for Tubular Fractures: Design, Fabrication and Structural Analysis <i>Zainab Munib Murtaza Najabat Ali Umar Ansari Mariam Mir</i> <i>Polymer-Plastics Technology and Engineering</i> , ISSN:0360-2559 (Print) 1525-6111 (Online), Volume: 22, Issue:1, Pages 75-87, Published: 02 Jan 2016 , Volume 54, Issue 16, Pages 1667-1678 | 2015 |

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| Impact Factor: 1.511 Quartile: 3 Citations: 22 DOI: DOI:10.1080/03602559.2015.1021481 | |
| Auxetic polymeric bone plate as internal fixator for long bone fractures: Design, fabrication and structural analysis <i>Seemab Mehmood Murtaza Najabat Ali Umar Ansari Mariam Mir Munezza Ata Khan</i> <i>Technology and Health Care</i> , Volume 23, Issue 6, Pages 819-833 Impact Factor: 0.678 Quartile: 4 Citations: 10 DOI: DOI: 10.3233/THC-151021 | 2015 |
| Auxetic Coronary Stent Endoprosthesis: Fabrication and Structural Analysis <i>Faisal Amin Murtaza Najabat Ali Umar Ansari Mariam Mir Muhammad Asim Minhas Wakeel Shahid</i> <i>Applied Biomaterials and Functional Materials</i> , Volume 13, Issue 2, Pages E127-E135 Impact Factor: 0.934 Quartile: 4 DOI: 10.5301/jabfm.5000213. | 2015 |
| Emerging approach for treating complications associated with pertrochanteric fractures: a review <i>Faisal Amin Murtaza Najabat Ali Mariam Mir Umar Ansari</i> <i>Minerva Ortopedica e Traumatologica</i> , Volume 66(2), Pages 101-106 Impact Factor: - DOI: - | 2015 |
| Real-time wound management through integrated pH sensors: A Review <i>Munezza Ata Khan Umar Ansari Murtaza Najabat Ali</i> <i>Sensor Review</i> , Volume 35, Issue 2, Pages 183-189 Impact Factor: 0.898 Quartile: 3 Citations: 28 DOI: http://dx.doi.org/10.1108/SR-08-2014-689 | 2015 |
| Review of mechanics and applications of auxetic structures <i>Mariam Mir Murtaza Najabat Ali Javaria Sami Umar Ansari</i> <i>Advances in Materials Science and Engineering</i> , Volume 2014, Article ID 753496, 17 pages Impact Factor: 0.744 Quartile: 4 Citations: 254 DOI: 10.1155/2014/753496 | 2014 |
| Internal fixation: An evolutionary appraisal of methods used for long bone fractures <i>Seemab Mehmood Umar Ansari Murtaza Najabat Ali Nosheen Fatima Rana</i> <i>International Journal of Biomedical and Advance Research</i> , Volume 05(03), Pages 143-149 Impact Factor: N/A DOI: 10.7439/ijbar.v5i3.627 | 2014 |
| A paradigm shift of the conventional intramedullary devices to new biological osteosynthetic devices: Bone stents <i>Zainab Munib Umar Ansari Murtaza Najabat Ali Nosheen Fatima Rana</i> <i>International Journal of Biomedical and Advance Research</i> , Volume 5(3), Pages 135-141 Impact Factor: 0 DOI: 10.7439/ijbar.v5i3.596 | 2014 |

Conference Proceedings

Magnetically Targeted Drug Delivery System through Imaging Technology PID Feedback Control and MATLAB 2019

Faizan Saifullah Hafsa Inam Murtaza Najabat Ali Umar Ansari

2019 11th International Conference on Bioinformatics and Biomedical Technology, res.country(196,)

Citations: N/A

DOI: 10.1145/3340074.3340093

Evaluation of LDA, QDA and decision trees for multifunctional controlled below elbow prosthetic limb using EMG signals 2014

Fateh Muhammad Hafsah Akhtar Zarmina Muhammad Syed Omer Gilani Umar Ansari Nasir Rashid

2014 International Conference on Robotics and Emerging Allied Technologies in Engineering (iCREATE), res.country(177,)

Citations: 3

DOI: 10.1109/iCREATE.2014.6828350

Design and Fabrication of Data Acquisition Glove and its Evaluation as a Goniometric Device 2006

Saad Islam Mohsin Islam Tiwana Javaid Iqbal Umer ansari

6th WSEAS International Conference on Applied Informatics and Communications (AIC 2006) held from 18-20 Aug 2006 in Greece res.country(88,)

Citations: N/A

DOI: -

Intellectual Property

Copyrights

Patents

A Novel Skeletal Plate Fixation System for Tubular and Flat Bones Fracture 2014

Status: Filed

Intelligent Bandage with Drug Dispensation and Adjustable Porosity System for Topical Wounds 2014

Status: Filed

Industrial Designs

Trademarks