Moniba Shams

Associate Professor

NUST Business School

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2007 - 2011

About

Dr. Moniba Shams is working as Associate Professor in the NUST Business School. Dr. Moniba Shams has a PhD in Elasticity/Solid Mechanics. Dr. Moniba Shams has published 20 research articles & conference papers having a citation count of 425, carried out 0 projects and filed 0 intellectual property.

Qualifications

PhD in Elasticity/Solid Mechanics

University of Glasgow , United Kingdom	2007 2011
MPhil in Elasticity/Solid Mechanics Quaid-i-Azam University , Pakistan	2000 - 2002
MSc in Mathematics	1998 - 2000
Quaid-i-Azam University, Pakistan	
BSc in MathematicsPhysics	1995 - 1997
University of the Punjab , Pakistan	
Experience	
Associate Professor	2023- Present
NUST Business School	
Assistant Professor	2022 - 2023
NUST Business School	
Assistant Professor	2021 - 2022
School of Natural Sciences	
Assistant Professor	2015 - 2021
School of Natural Sciences	
Assistant Professor	2012 - 2015
School of Natural Sciences	
Assistant Professor	2011 - 2012
School of Natural Sciences	
Lecturer	2005 - 2011
School of Electrical Engineering and Computer Science	
Lecturer	2005 - 2007
NIIT (Currently SEECS) NUST , H-12, Islamabad	
Lecturer	2003 - 2005
Int Islamic University , Islamabad	
Awards	
Best teacher, 2013-14	2015

Research Articles

Nanofluid cooling in photovoltaic thermal systems: Influence of thermal radiation, MHD, Joule heating, and carbon nanotubes

2025

Impact Factor: 1.900 Quartile: 4 DOI: https://doi.org/10.1063/5.0268799	
Channelized water driven flow of MHD carbon-nanotube nanofluid influenced by rotation, heat source	2023
and thermal radiation	
Moniba Shams Sofia Sarwar	
PLoS ONE, Volume:18, Issue:12	
Impact Factor: 3.7 Quartile: 2 Citations: 3 DOI: 10.1371/journal.pone.0295406	
The effect of radiation and porosity on MHD nanofluid flow and heat transfer across a stretching cylinder	2022
Moniba Shams Saira Asghar Muhammad Asif Farooq	
Waves in Random and Complex Media, Pages 1-19	
Impact Factor: 4.051 Quartile: 2 Citations: 3	
DOI: 10.1080/17455030.2022.2141913	
Propagation of interfacial (Stoneley-type) waves at the joint boundary of two initially-stressed	2022
incompressible half-spaces	
Moniba Shams	
International Journal of Non-Linear Mechanics, Volume:146,	
Impact Factor: 3.336 Quartile: 2 Citations: 1	
DOI: 10.1016/j.ijnonlinmec.2022.104158	
Entropy analysis with the Cattaneo-Christov heat flux model for the Powell-Eyring nanofluid flow over a stretching surface	2022
Taha Aziz Asim Aziz Moniba Shams Haitham M.S. Bahaidarah Hafiz Muhammad Ali	
Waves in Random and Complex Media, Pages 1-26	
Impact Factor: 4.853 Quartile: 1 Citations: 3	
DOI: 10.1080/17455030.2022.2060534	
Interfacial wave propagation in initially stressed compressible hyperelastic materials	2022
Moniba Shams Kanwal Ejaz	
Mathematics and Mechanics of Solids, Pages 1-22	
Impact Factor: 2.341 Quartile: 2 Citations: 2	
DOI: https://doi.org/10.1177%2F10812865221074304	
Propagation of Rayleigh wave in initially-stressed compressible hyperelastic materials Kanwal Ejaz Moniba Shams	202
Wave Motion , Volume 100, Article Number 102675	
Impact Factor: 2.174 Quartile: 2 Citations: 6	
DOI: https://doi.org/10.1016/j.wavemoti.2020.102675	
Wave-propagation in an incompressible hollow elastic cylinder with residual stress Moniba Shams	2020
Discrete and Continuous Dynamical Systems Series S, Volume 13, Issue 10, Pages 2877-2904	
Impact Factor: 2.425 Quartile: 1 Citations: 1	
DOI: 10.3934/dcdss.2020123	
On Caputo modification of Hadamard-type fractional derivative and fractional Taylor series	2020
Rashida Zafar Moniba Shams Mujeeb-ur-Rehman	
Advances in Difference Equations, Volume 2020, Article Number 219	
Impact Factor: 2.803 Quartile: 1 Citations: 17 DOI: https://doi.org/10.1186/s13662-020-02658-1	
Entropy generation in MHD Maxwell nanofluid flow with variable thermal conductivity, thermal	2020
radiation, slip conditions, and heat source	2020
Asim Aziz Moniba Shams	
AIP Advances, Volume 10, Issue 1, Article Number 015038	
Impact Factor: 1.548 Quartile: 4 Citations: 63	
DOI: https://aip.scitation.org/doi/full/10.1063/1.5129569	

2019

Heat transfer and entropy analysis of Maxwell hybrid nanofluid including effects of inclined magnetic

field, Joule heating and thermal radiation

Wasim Jamshed Yasir Ali Moniba Shams Asim Aziz

Impact Factor: 1.233 Quartile: 2 Citations: 76 DOI: 10.3934/dcdss.2020142	
Plane Wave Reflection in a Compressible Half Space with Initial Stress C. M. Khalique T. Aziz Moniba Shams Open Physics, Volume 17, Issue 1, Pages 438-448	2019
Impact Factor: 0.963 Quartile: 4 Citations: 1 DOI: 10.1515/phys-2019-0044	
Love waves in compressible elastic materials with a homogeneous initial stress MONIBA SHAMS K. Ejaz Mathematics and Mechanics of Solids, NULL	2018
Impact Factor: 1.791 Quartile: 2 Citations: 6 DOI: https://doi.org/10.1177/1081286518771726	
Reflection of plane waves from the boundary of an initially stressed incompressible half-space Moniba Shams Mathematics and Mechanics of Solids, NULL	2017
Impact Factor: 2.545 Quartile: 1 Citations: 6 DOI: https://doi.org/10.1177/1081286517741524	
Effect of initial stress on Love wave propagation at the boundary between a layer and a half-space <i>M Shams</i> Wave Motion, Volume 65, Pages 92–104	2016
Impact Factor: 1.575 Quartile: 2 Citations: 35 DOI: 10.1016/j.wavemoti.2016.04.009	
On Rayleigh-type surface waves in an initially stressed incompressible elastic solid Moniba Shams R. W. Ogden IMA Journal of Applied Mathematics, Volume: 79 Issue: 2 Pages: 360-376 Impact Factor: 0.947 Quartile: 2 Citations: 35 DOI: 10.1093/imamat/hxs070	2014
Lamb Modes for an Isotropic Incompressible Plate Moniba Shams Takasar Hussain M. Afzal awan Faiz Ahmad Mathematical Problems in Engineering, Volume 2013, Article ID 152346, 4 pages Impact Factor: 1.082 Quartile: 2 DOI: 10.1155/2013/152346	2013
Initial stresses in elastic solids: Constitutive laws and acoustoelasticity M. Shams M. Destrade R.W. Ogden Wave Motion , Volume: 48 Issue: 7 Pages: 552-567 Impact Factor: 1.46 Quartile: 2 Citations: 152 DOI: 10.1016/j.wavemoti.2011.04.004	2011
Guided waves in a fluid-loaded transversely isotropic plate Moniba Shams Faiz Ahmad Nagina Kayani Farkhanda Yousuf Mathematical Problems in Engineering, Volume 8 Issue 2 Pages 151-159 Impact Factor: 0.238 Quartile: 3 Citations: 15 DOI: 10.1080/10241230212909	2002
Conference Proceedings	
Rayleigh surface waves in orthotropic materials with voids Moniba Shams Noureen Tayyab The 12th AIMS Conference on Dynamical Systems, Differential Equations and Applications 2018, res.country(227,) Citations: N/A DOI: http://aimsciences.org/conferences/2018/abstracts-2018-06-17.pdf	2018
Editorial Activities	

2025

Discrete and Continuous Dynamical Systems Series S, Pages 1-24

Academia Engineering

Reviewed Papers for Journals

Impact Factor:	N/A
ilipaci racioi.	IN/A

Malaysian Journal of Mathematical Sciences Reviewed Papers for Journals Impact Factor: 1.3	2025
Propulsion and Power Research Reviewed Papers for Journals Impact Factor: 6.3	2025
International Journal of Ambient Energy Reviewed Papers for Journals Impact Factor: 0.31	2025
Journal of Applied Mathematics and Mechanics Reviewed Papers for Journals Impact Factor: 3.2	2025
Partial Differential Equations in Applied Mathematics Reviewed Papers for Journals Impact Factor: N/A	2025
Journal of Radiation Research and Applied Sciences Reviewed Papers for Journals Impact Factor: 1.7	2025
International Journal of Non-Linear Mechanics Reviewed Papers for Journals Impact Factor: 2.8	2025
Journal of Vibration and Control Reviewed Papers for Journals Impact Factor: 2.3	2025
Journal of Vibration and Contro Reviewed Papers for Journals Impact Factor: 2.3	2024
Engineering Computations. Reviewed Papers for Journals Impact Factor: 1.5	2024
Case Studies in Thermal Engineering Reviewed Papers for Journals Impact Factor: 6.4	2024
International Journal of Ambient Energy Reviewed Papers for Journals Impact Factor: 0	2024
Mathematics and Mechanics of Solids Reviewed Papers for Journals Impact Factor: 1.7	2024
Journal of Elasticity Reviewed Papers for Journals Impact Factor: N/A	2024
Nanotechnology Reviews Reviewed Papers for Journals Impact Factor: 7.4	2024
Nanotechnology Reviews Reviewed Papers for Journals Impact Factor: 7.4	2024
Modern Physics Letters B Reviewed Papers for Journals Impact Factor: 1.948	2023
Mechanics of Solids	2023

Reviewed Papers for Journals Impact Factor: 0.7 Nanotechnology 2023 Reviewed Papers for Journals Impact Factor: 6.739 **Nanotechnology Reviews** 2023 Reviewed Papers for Journals Impact Factor: 7.4 International Journal of Modern Physics B 2023 Reviewed Papers for Journals Impact Factor: 1.404 2022 Reviewed Papers for Journals Impact Factor: 4.853 2022 Reviewed Papers for Journals Impact Factor: 4.051 2022 Reviewed Papers for Journals Impact Factor: awaiting 2022 Reviewed Papers for Journals Impact Factor: awaiting 2022 Reviewed Papers for Journals Impact Factor: 3.095 2022 Reviewed Papers for Journals Impact Factor: 2.986 2022 Reviewed Papers for Journals Impact Factor: 4.853 2021 Reviewed Papers for Journals Impact Factor: 00 2021 Reviewed Papers for Journals Impact Factor: 1.009 2020 Reviewed Papers for Journals Impact Factor: 2.98

Reviewed Papers for Journals

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Impact Factor: 2.98

2020

2018

2018