

Raja Muhammad Awais

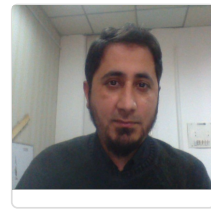
Assistant Professor

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About

Dr. Raja Muhammad Awais is working as Assistant Professor in the College of Aeronautical Engineering. Dr. Raja Muhammad Awais has a PhD in Materials Science and Nanoengineering. Dr. Raja Muhammad Awais has published 11 research articles & conference papers having a citation count of 295, carried out 0 projects and filed 0 intellectual property.

Qualifications

PhD in Materials Science and Nanoengineering Sabanci University , Turkey	2017 - 2021
MS in Mechanical Engineering King Fahad University of Petroleum and Minerals , Saudi Arabia	2013 - 2015
BE in Mechanical Engineering NUST, Islamabad , Pakistan	2009 - 2013

Experience

Assistant Professor College of Aeronautical Engineering	2022- Present
Assistant Professor College of Aeronautical Engineering	2021 - 2022
Lecturer College of Aeronautical Engineering	2017 - 2017
Lecturer College of Aeronautical Engineering	2016 - 2017

Research Articles

Investigation of the mechanical behavior of FDM processed CFRP/Al hybrid joint at elevated temperatures <i>Sabih Ahmad Khan Haris Ali Khan Abdullah Khan Shuaib Salamat Syed Saad Javaid Raja Muhammad Awais</i> <i>Thin-Walled Structures</i> , Volume 192, Article Number 111135 Impact Factor: 6.4 Quartile: 1 Citations: 16 DOI: https://doi.org/10.1016/j.tws.2023.111135	2023
Classification of progressive failure and mechanical behavior of dissimilar material hybrid joints at varying temperatures <i>Raja Muhammad Awais Zain-ul-Abidin Sabih Ahmad Khan Haris Ali Khan Sara Khushbash</i> <i>Thin-Walled Structures</i> , Volume 182, Part A, Article Number 110212 Impact Factor: 5.881 Quartile: 1 Citations: 16 DOI: https://doi.org/10.1016/j.tws.2022.110212	2023
A novel hybrid damage monitoring approach to understand the correlation between size effect and failure behavior of twill CFRP laminates <i>Raja Muhammad Awais Khan Shaghayegh Saeidharzand Isa Emami Tabrizi Hafiz Qasim Ali Mehmet Yildiz</i> <i>Composite Structures</i> , Volume 270, Article Number 114064 Impact Factor: 5.407 Quartile: 1 Citations: 19 DOI: 10.1016/j.compstruct.2021.114064	2021
Investigation on interlaminar delamination tendency of multidirectional carbon fiber composites <i>Raja Muhammad Awais Isa Emami Tabrizi Hafiz Qasim Ali Eralp Demir Mehmet Yildiz</i>	2020

Polymer Testing , Volume 90, Article Number106653

Impact Factor: 4.282 | **Quartile:** 1 | **Citations:** 23

DOI: <https://doi.org/10.1016/j.polymertesting.2020.106653>

Microscopic analysis of failure in woven carbon fabric laminates coupled with digital image correlation and acoustic emission

2019

Hafiz Qasim Ali Isa Emami Tabrizi Raja Muhammad Awais Khan Ali Tufani Mehmet Yildiz

Composite Structures , Volume 230, Article Number 111515

Impact Factor: 5.138 | **Quartile:** 1 | **Citations:** 57

DOI: [10.1016/j.compstruct.2019.111515](https://doi.org/10.1016/j.compstruct.2019.111515)

Determining tab material for tensile test of CFRP laminates with combined usage of digital image correlation and acoustic emission techniques

2019

Isa Emami Tabrizi Raja Muhammad Awais Khan Eyass Massarwa Jamal Seyyed Monfared Zanjani Hafiz Qasim Ali Eralp Demir Mehmet Yildiz

Composites Part A: Applied Science and Manufacturing, Volume 127, Article Number 105623

Impact Factor: 6.444 | **Quartile:** 1 | **Citations:** 52

DOI: [10.1016/j.compositesa.2019.105623](https://doi.org/10.1016/j.compositesa.2019.105623)

Experimental study on dynamic behavior of woven carbon fabric laminates using in-house piezoelectric sensors

2019

Hafiz Qasim Ali Isa Emami Tabrizi Raja Muhammad Awais Jamal Seyyed Monfared Zanjani Cagatay Yilmaz Leila Haghighi Poudeh Mehmet Yildiz

Smart Materials and Structures , Volume: 28, Issue: 10, Article Number: 105004

Impact Factor: 3.613 | **Quartile:** 1 | **Citations:** 16

DOI: [DOI: 10.1088/1361-665X/ab34f3](https://doi.org/10.1088/1361-665X/ab34f3)

Synthesis of hard and tough calcium stabilized α -sialon/SiC ceramic composites using nano-sized precursors and spark plasma sintering

2018

Bilal Anjum Ahmed Moath Abbas Saeed Tahar Laoui Raja Muhammad Awais

Journal of Alloys and Compounds, JOURNAL OF ALLOYS AND COMPOUNDS Volume: 757 Pages: 200-208

Impact Factor: 4.175 | **Quartile:** 1 | **Citations:** 19

DOI: [10.1016/j.jallcom.2018.05.062](https://doi.org/10.1016/j.jallcom.2018.05.062)

Effect of precursor size on the structure and mechanical properties of calcium-stabilized sialon/cubic boron nitride nanocomposites

2017

Bilal Anjum Ahmed Abbas Saeed Hakeem Tahar Laoui Raja Muhammad Awais Moath Mohammad Al Malki Anwar Ul-Hamid Fazal Ahmad Khalid Nabi Bakhsh

Journal of Alloys and Compounds, Volume 728, Pages 836-843, 25 December 2017

Impact Factor: 3.779 | **Quartile:** 1 | **Citations:** 28

DOI: [10.1016/j.jallcom.2017.09.032](https://doi.org/10.1016/j.jallcom.2017.09.032)

Effect of Al metal precursor on the phase formation and mechanical properties of fine-grained SiAlON ceramics prepared by spark plasma sintering

2017

Raja Muhammad Awais Abbas Saeed Hakeem Moath Mohammad Al Malki Stuart Hampshire Tahar Laoui

Journal of the European Ceramic Society, Volume 37, Issue 5, Pages 1975-1983

Impact Factor: 3.794 | **Quartile:** 1 | **Citations:** 27

DOI: <https://doi.org/10.1016/j.jeurceramsoc.2016.12.025>

Development of a single-phase Ca- α -SiAlON ceramic from nanosized precursors using spark plasma sintering

2016

Raja Muhammad Awais Khan Moath Mohammad Al Malki Abbas Saeed Hakeem Muhammad Ali Ehsan Tahar Laoui

Materials Science and Engineering: A, Volume 673, Pages 243-249

Impact Factor: 3.094 | **Quartile:** 1 | **Citations:** 22

DOI: [10.1016/j.msea.2016.07.075](https://doi.org/10.1016/j.msea.2016.07.075)