

# Raja Muhammad Awais

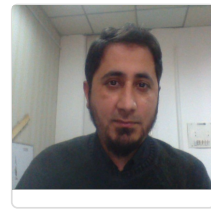
Assistant Professor

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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

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

## Experience

<b>Assistant Professor</b> College of Aeronautical Engineering	2022- Present
<b>Assistant Professor</b> College of Aeronautical Engineering	2021 - 2022
<b>Lecturer</b> College of Aeronautical Engineering	2017 - 2017
<b>Lecturer</b> College of Aeronautical Engineering	2016 - 2017

## Research Articles

<b>Investigation of the mechanical behavior of FDM processed CFRP/Al hybrid joint at elevated temperatures</b> <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 <b>Impact Factor:</b> 6.4   <b>Quartile:</b> 1   <b>Citations:</b> 16 <b>DOI:</b> <a href="https://doi.org/10.1016/j.tws.2023.111135">https://doi.org/10.1016/j.tws.2023.111135</a>	2023
<b>Classification of progressive failure and mechanical behavior of dissimilar material hybrid joints at varying temperatures</b> <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 <b>Impact Factor:</b> 5.881   <b>Quartile:</b> 1   <b>Citations:</b> 16 <b>DOI:</b> <a href="https://doi.org/10.1016/j.tws.2022.110212">https://doi.org/10.1016/j.tws.2022.110212</a>	2023
<b>A novel hybrid damage monitoring approach to understand the correlation between size effect and failure behavior of twill CFRP laminates</b> <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 <b>Impact Factor:</b> 5.407   <b>Quartile:</b> 1   <b>Citations:</b> 19 <b>DOI:</b> <a href="https://doi.org/10.1016/j.compstruct.2021.114064">10.1016/j.compstruct.2021.114064</a>	2021
<b>Investigation on interlaminar delamination tendency of multidirectional carbon fiber composites</b> <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  $\alpha$ -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- $\alpha$ -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)