

## Publications of Zahid Hussain Shamsi

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### *Journal Articles*

1. Dai-Gyoung Kim, Arfan Anjum, Muhammad Asif Farooq, Asif Mushtaq, **Zahid Hussain Shamsi**. [Enhanced quantum teleportation using multi-qubit logical states](#). *Results in Physics* 50 (2023).
2. Dai-Gyoung Kim, Yasir Ali, Muhammad Asif Farooq, Asif Mushtaq, Muhammad Ahmad Abdul Rehman, **Zahid Hussain Shamsi**. [Hybrid Deep Learning Framework for Reduction of Mixed Noise via Low Rank Noise Estimation](#). *IEEE Access* 10 (2022).
3. **Zahid Hussain Shamsi**, Dai-Gyoung Kim, Mukhtar Hussain, Rana Muhammad Bakhtawar Khan Sajawal (2021). [Low-Rank Estimation for Image Denoising Using Fractional-Order Gradient-Based Similarity Measure](#). *Circuits, Systems, and Signal Processing* 40 (2021).
4. M. Irfan, M. Asif Farooq, A. Aslam, Asif Mushtaq, **Zahid Hussain Shamsi** (2021). [Magnetohydrodynamic Time-Dependent Bio-Nanofluid Flow in a Porous Medium with Variable Thermophysical Properties](#). *Mathematical Problems in Engineering* (2021).
5. Dai-Gyoung Kim, Mukhtar Hussain, Muhammad Adnan, Muhammad Asif Farooq, **Zahid Hussain Shamsi**, Asif Mushtaq. [Mixed Noise Removal Using Adaptive Median Based Non-local Rank Minimization](#). *IEEE Access* 9 (2021).
6. **Zahid Hussain Shamsi**, Amna Noreen, Asif Mustaq. [Analysis of quantum coherence for localized fermionic systems in an accelerated motion](#). *Results in Physics* 18C (2020).
7. M. Irfan, M. Asif Farooq, T. Iqra, Asif Mushtaq, **Zahid Hussain Shamsi**. [A Simplified Finite Difference Method \(SFDM\) for EMHD Powell–Eyring Nanofluid Flow Featuring Variable Thickness Surface and Variable Fluid Characteristics](#) *Mathematical Problems in Engineering* (2020).
8. M. Irfan, M. Asif Farooq, Asif Mushtaq, **Zahid Hussain Shamsi**. [Unsteady MHD Bionanofluid Flow in a Porous Medium with Thermal Radiation near a Stretching/Shrinking Sheet](#) *Mathematical Problems in Engineering* (2020).
9. Dai-Gyoung Kim, **Zahid Hussain Shamsi**. [Enhanced residual noise estimation of low rank approximation for image denoising](#). *Neurocomputing* 193 (2018).
10. Eun-Sang Park, **Zahid Hussain Shamsi**, Ji-Won Kim, Dai-Gyoung Kim, Jin-Goo Park, Jin-Ho Ahn, Hye-Keun Oh. [Mechanical deflection of a free-standing pellicle for extreme ultraviolet lithography](#). *Microelectronic Engineering* 143 (2015).
11. **Zahid Hussain Shamsi**, Dai-Gyoung Kim (2015). [Multiscale Hybrid Non-local Means Filtering Using Modified Similarity Measure](#). *Mathematical Problems in Engineering* (2015).

### *Conference Publications*

12. Eun-Sang Park, Jae-Keun Choi, Min-Ha Kim, Sollee Hwang, Zahid Hussain Shamsi, Dai-Gyoung Kim, Hye-Keun Oh. [The Impact of the Residual Stress on the EUV pellicle](#). *Proc. SPIE 9984, Photomask Japan 2016: XXIII Symposium on Photomask and Next-Generation Lithography Mask Technology, 99840F (May 10, 2016)*.

13. Eun-Sang Park, Zahid Hussain Shamsi, Sung-Gyu Lee, Jong-Hoon Lee, Dai-Gyoung Kim and Hye-Keun Oh. [Thermomechanical Behavior of the EUVL Pellicle During the Exposure \(Poster Presentation P-MP-09\)](#). *International Symposium on Extreme Ultraviolet Lithography, October 5-7, 2015 Maastricht, The Netherlands.*
14. Eun-Sang Park, Zahid Hussain Shamsi, Ji-Won Kim, Dai-Gyoung Kim, and Hye-Keun Oh. [Measurement of Deflection of the Full scale Free Standing EUV Pellicle \(Poster Presentation 62\)](#). *International Workshop on EUV Lithography June 23-27, 2014 Makena Beach & Golf Resort , Maui, Hawaii .*
15. Eun-Sang Park, Zahid Hussain Shamsi, Ji-Won Kim, Dai-Gyoung Kim, and Hye-Keun Oh. [The Mechanical Deflection of the Free Standing EUV Pellicle \(Poster Presentation 8054\)](#). *40<sup>th</sup> Micro and Nano Engineering Conference, September 22-26, 2014 Lausanne, Switzerland.*