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**Editor-in-Chief**

**Journal of Material Science**

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**Subject**: Submission of Manuscript - "A TCAD Study on Simulation and Benchmarking of Nanometer Scale Functionally Graded Materials as Gate Dielectrics for FinFETs"

**Dear Editor-in-Chief,**

Tempted by your email mentioning the Journal, I am writing to submit our manuscript entitled "*A TCAD Study on Simulation and Benchmarking of Nanometer Scale Functionally Graded Materials as Gate Dielectrics for FinFETs*" for consideration for publication in the Journal of Material Science.

This manuscript has not been published and is not under consideration for publication elsewhere. We have no conflicts of interest to disclose. The manuscript represents original work conducted by the authors listed.

Our study explores the potential of Functionally Graded Materials (FGMs) as a viable alternative to conventional single-layer high-κ dielectrics in FinFET structures. We provide a comprehensive analysis of the performance enhancements achievable through the application of FGMs in nanometer-scale gate dielectrics on Fin Field Effect Transistors.

We acknowledge the contributions of each author listed in the manuscript and the financial support from the TOHUM Project P2220221 by ASELSAN Microelectronics (MGEO) Business Sector, Türkiye.

We appreciate your consideration of our work for publication and believe that our findings will make a significant contribution to the field of Material Science.

Thank you for considering our submission.

Sincerely,

**Alper ÜLKÜ**

**ASELSAN MGEO Business Sector,**

**Ph.D Candidate / Gebze Tech Univ./ Dept. Material Science and Engineering**

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**A TCAD Study on Simulation and Benchmarking of Nanometer Scale Functionally Graded Materials as Gate Dielectrics for FinFETs**

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