



## GHADA DUSHAQ

*Arab region*

Physics

Postdoctoral researcher,  
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Dr. Dushaq's work in applied physics investigates new and innovative materials, structures, and process technologies in order to improve the performance of high-speed optoelectronics, nano-electronics, and photonics devices. Her research on the use of silicon, germanium, III-V compound semiconductors, and other materials can improve the efficiency and address limitations of currently available technologies.

Dr. Dushaq received her Bachelor's degree in Physics and Mathematics from BirZeit University, Palestine in 2009 with distinction. She went on to graduate with an MSc in Physics from the University of Jordan in 2012 funded by the German Academic Exchange Service (DAAD), followed by a PhD in Microsystems Engineering from Masdar Institute of Science and Technology (Khalifa University) in Abu Dhabi, under a cooperative programme with the Massachusetts Institute of Technology. She graduated with her doctorate in 2017.

Dr. Dushaq has received several awards for her research, including the International Association of Advanced Materials (IAAM) Scientist Medal for 2018, the Post-Doctoral Conference and Travel Award from New York University Abu Dhabi in 2018, and the Falling Walls Lab prize in 2020, for her work on "Breaking the Wall of High-Speed Optical Communication", awarded at the World Science Summit in Berlin, 2020. She has published over 35 papers in international peer-reviewed scientific journals and conference proceedings. She is also a reviewer for several scientific journals including *Optics Express*, *Advanced Optical Materials*, *Scientific Reports*, *Applied Optics*, *Optical Materials Express*, *Journal of Applied Physics*, *Photovoltaic Specialist Conferences (IEEE PVSC)*, and *Journal of Materials Science*. She is a member of the Optical Society (OSA), the Electrochemical Society (ECS), the American Physical Society (APS), and the Materials Research Society (MRS).

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*I am extremely honored to be receiving this award. It is truly rewarding to feel that all the hard work, dedication and devotion to my research has really paid off. It also motivates me to continue striving for excellence in my academic and professional pursuits and to encourage young girls in advancement of their careers.*

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