
Prof. Nguyen Duc Hoa

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Prof. Nguyen Duc Hoa is a distinguished Vietnamese scientist in materials science and nanotechnology, currently affiliated with Hanoi University of Science and Technology (HUST). He serves as a leading figure at the School of Materials Science and Engineering and heads the Smart Sensors and Device Laboratory.

His research focuses on low-dimensional nanomaterials (such as graphene, TMDs, and metal oxides) for applications in gas sensing, energy devices, and environmental monitoring. He has made notable contributions to the development of high-performance gas sensors, including systems for food quality assessment and early detection of thermal runaway in lithium-ion batteries. He has an extensive academic record, with around 200+ scientific publications and over 10,000 citations across major databases. His h-index is approximately 62, reflecting strong and sustained scientific impact, with particularly high recent research momentum.

Prof. Hoa has led several nationally and internationally funded research projects, including VINIF-supported programs, and has extensive experience in building advanced research infrastructure and training graduate students. His work emphasizes interdisciplinary approaches, combining materials science, microfabrication, and intelligent sensing technologies.

He is also actively engaged in international collaboration, particularly with partners in Korea and other countries, contributing to scientific exchange and the development of advanced materials research in Vietnam.

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