Professor Okhyun Nam

Tech University of Korea, South Korea

Okhyun Nam is the professor in the department of Semiconductor Engineering at the TU-Korea (Tech University of Korea), South Korea.

His teaching and research interests are in the areas of the ultra-wide bandgap semiconductors such as AlGaN and Diamond, and their device growth and fabrications for the electronic and optoelectronic applications.

After obtaining a Ph.D. from Yonsei University in South Korea in 1994, Professor Nam has studied the III-nitride semiconductors at the KIST between 1994-1995 and North Carolina State University between 1995-1998, as a post-doctoral researcher.

After that, he joined SAIT (Samsung Advance Institute of Technology). As a project leader, he has investigated and developed III-Nitride blue laser diodes between 1998-2007 at the SAIT. In 2004, He achieved high power blue-violet laser diode development based on III-Nitride semiconductors and took the SAMSUNG Technology Awad. Also, he continued to develop the blue and green laser diode based on InGaN semiconductors.

In 2007, He moved to the department of semiconductor engineering at Tech University of Korea and continued to work nitride semiconductor studies such as LEDs and LDs.

From 2015, He started Nitride power device growth and fabrication research, and 2018, Diamond semiconductor heteroepitaxy for large-size wafer and power devices/quantum devices.

So far, has published over 203 international journal papers and has over 65 patents in the wide bandgap and ultra-wide bandgap semiconductors.

Now, he has been working as the principal investigator (PI) of the Korean National Research Projects (Alchemist Project) regarding Diamond and Al(Ga)N Semiconductors for the space and extreme environmental applications.