Nanowires are filamentary crystals with a diameter ranging from few to hundreds of nanometers. Thanks to their special morphology and geometry, they are at the base of many applications that can revolutionize this century’s technology. For this to become a reality, fundamental studies on the growth and properties are essential. This focus session presents the latest developments and discoveries in the area of nanowires, with a special focus on semiconductor materials. (Organizers: Margit Zacharias, U.Freiburg; Tobias Voss, U. Bremen; Anna Fontcuberta i Morral, EPFL)
windows in epitaxy have to be modified in order to enhance vertical growth rates and reduce planar growth rates. Quite often, this leads to growth modes, which are far away from the ones regularly used for high efficiency planar LEDs. This talk will give an overview of the state of the art of our 3D GaN research, particularly focusing on MOCVD growth and 3D characterization. Potential advantages and challenges of this exciting new strategy towards low cost high efficiency solid state lighting will also be discussed.