Prof. Muthukonda Venkatakrishnan Shankar

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Dr. Muthukonda Venkatakrishnan Shankar is a Professor of Materials Science and Nanotechnology at Yogi Vemana University, India, and currently serves as an **Invited Brain Pool Professor** at Konkuk University, Korea (2024–2026). As the leader of the **Nanocatalysis and Solar Fuels Research Laboratory**, his research focuses on the interface engineering of nano-heterojunction photocatalysts for natural diurnal sunlight-driven hydrogen production and sustainable energy applications.

Dr.Shankar is internationally recognized for his pioneering contributions to photocatalysis, with an **h-index of 56 with over 12,700 citations**. He has been ranked among the world's **top 2% most influential scientists** for six consecutive years. His research portfolio integrates nanostructured materials design, waste-derived photocatalysts, and scalable synthesis strategies to enable efficient, stable hydrogen generation from water and industrial waste streams.

A **Fellow of the Royal Society of Chemistry (FRSC)**, Dr.Shankar has received several prestigious honors, including **the Andhra Pradesh Scientist Award** and the **Andhra Pradesh State Meritorious Teacher Award**. His prolific academic record includes **133 SCI-indexed articles**, six patents, 26 book chapters, and two edited books on nanotechnology and hydrogen energy. Furthermore, he has served as Lead Guest Editor for the *International Journal of Hydrogen Energy*.

His work emphasizes translation of nanomaterials synthesis into scalable technologies, including the development of over **25 high-performance photocatalysts** and prototype photoreactors for continuous hydrogen production. Notably his research on *CuO/TiO_2 nanotubes for photocatalytic hydrogen generation* recognized among **ChemComm's 60th Anniversary Historic Papers from India**. With extensive experience across leading institutions such as **INRA (France), CNRS (France), NIMS (Japan), Konkuk University (Korea) and Jiangsu University of Science and Technology (China)**, Dr. Shankar brings a global perspective to the advancement of solar energy materials for green hydrogen generation.