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Biography

Gurumurthy Hegde has completed his PhD from Mangalore University, India. Presently he is heading Centre for Nano-Materials and Displays, BMS College of Engineering, Bengaluru, India. He has over 125 publications with 18 patents in his name. His H-index is 18 and has been serving as an Editorial Board Member of reputed journals. He obtained more than 60 international awards from various countries like USA, Malaysia, South Korea, Japan, India etc. He is expert in porous nanoparticles from biowastes, energy, health, LCDs, liquid crystals etc. He guided several students for their PhD.

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EMERGING POROUS NANOPARTICLES FROM BIOWASTES AND ITS APPLICATIONS

Due to ever-growing human progress specially in technology has left many wastes behind. Segregating the biowastes is big headache and due this environment is heavily polluted. Working in this sector is utmost importance for keeping future generation healthy. Time has arrived to treat biowastes in to useful manner so that one can adopt waste to wealth approach. Porous nanoparticles are having unique advantage due to their porous structure. Obtaining porous structure is the state-of-the-art technology and it offers many benefits for various applications. Carbon nanospheres from biowastes are having inbuilt porous structure due to their lignocellulosic nature present in biowastes. These emerging porous nano-structures from biowastes has been used extensively in energy, water and health. Present talk summarizes the overview of such porous nanostructures and their characterization along with unique applications in supercapacitors, waste water treatment, antimicrobial studies etc. This method offers low cost devices to the market, highly stable, easy bulk production and environmentally friendly.

Note: