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Dr. Karthikeyan Sekar currently working as a Brain Pool Fellow (Yonsei University) and Research Assistant Professor, at SRM Institute of Science and Technology, India. Visiting Faculty at the University of Edinburg, Scotland, UK and JSPS Invitational Fellow at Kyushu University, Japan. Before joining SRMIST, he worked as **Special Researcher at the University of Tokyo.** He has received prestigious fellowships such as **Japan Society for the Promotion of Science**, Japan (2018 to 2020), and the **Royal Society Newton International Fellowship** at Aston University (2016 to 2018), UK. He has awarded the **Fellow of Higher Education Academy, United Kingdom (2018)**. He has served as a Visiting Faculty at the University of Cologne, Germany (2025); University of Amsterdam, Netherlands (2025); University of Edinburgh, Scotland, UK (2023); and Kyushu University, Japan (2023). He has Member of International Water Association, Member of Royal Society of Chemistry, UK; Member of Member of American Chemical Society, USA. His research interest towards development of biomass derived carbon-based materials used as a catalyst for energy and environmental remediation. **He has published 150 research articles (*Advanced Energy Materials, Applied Catalysis B: Environmental, Journal of Materials Chemistry A, Chemical communications, ChemSusChem, ACS applied Materials & Interfaces, Green Chemistry, PCCP, Langmuir etc.*, Citation above 7000, h-index 45)**, including five patents (one international), which has transferred many industries in India and abroad.