

Dr. G. Saravanan is a Scientist Fellow, currently working at CSIR-National Environmental Engineering Research Institute (CSIR-NEERI), India. After completion of his master degree (M. Sc) at University of Madras India, he joined Shinshu University, Japan for his Master of Science (M. S) and Doctor of Science (D. S) under *monbukagakusho* fellowship. He has been awarded as D. S on March 2008. He focused electron-tunnelling reaction under strong magnetic fields during his doctoral studies. He is then continued as post doctoral research scientist at Keio University, National Institute for Materials Science (NIMS), Kanagawa University for five years. He is focused on inter metallic catalysts for environmental-related application. He developed Pt-based intermetallic catalyst for fuel cell and photocatalytic applications at Kanagawa University with the collaboration of NIMS and Tokyo Institute of Technology. He published 25 articles and filed 8 Japanese patents on his research works. Some of his research works have been highlighted as cover page article in *Chemical Communications*, *Advanced Materials*. He is recently received *Best Young Scientist* award at *International Conference on Applications of Advanced Materials for Sustainable Development*. Currently he is focusing on the developments of low-cost oxygen carrier for thermal power plants application, substituted perovskite-type catalysts for automobile applications and low-cost adsorbents for purification of water at CSIR-NEERI.

Research Area

- *Development on nano-intermetallic catalysts for exhaust purification and energy-related applications*
- *Development on shape-tailored catalysts/mixed oxide-type catalysts for automobile applications*
- *Development on oxygen carrier for Chemical Looping Combustion for its applications towards GHG emission control*
- *Designing of materials for treatment of contaminated water.*

