Prof. Arun S. Mujumdar's

Transport Processes Research Group

December 15, 2020

Hearty Congratulations, Prof. Azharul Karim…!!!

Dr. Azharul Karim has been emerging as an international leader in food drying research through his scholarly, innovative, high quality fundamental and applied research in the field. He received his PhD degree from Melbourne University in 2007 and currently working as an Associate Professor at Queensland University of Technology (QUT), Australia. Dr. Karim has authored over 200+ peer-reviewed articles, including 110 high-quality journal papers, 13 peer-reviewed book chapters, four patents, and five books. His papers have attracted more than 4700 citations with an h-index of 38. He is editor/board member of six reputed journals including Drying Technology and Nature Scientific Reports and supervisor of 26 past and current PhD students. He has been a keynote/distinguished speaker at scores of international conferences and invited/keynote speaker in seminars in many reputed universities worldwide including • KU Leuven, Belgium •EMPA, Switzerland, and • National University of Singapore. Due to the multidisciplinary nature of industrial drying problems, his research spans engineering, mathematics, biology, physics, and chemistry. To address the multidisciplinary challenges, he established the 'Energy and Drying' Research Group at QUT consisting of academics and researchers across disciplines. His notable contributions in the field include:

- Developed a new method to investigate cellular level water using NMR
- Determination Free and Bound water in food structures
- Established a new approach for the water transport process through cell breakage
- Developed advanced multiphase modelling framework
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- Developed new advanced drying systems such as Intermittent microwave convective drying (IMCD)

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Dr. Karim's global leadership in the fields of food drying and microwave drying is evident by the high impact of his papers, which is significantly higher than world averages as demonstrated by his field weighted citation index (FWCI) of 2.56. He is the recipient of numerous national and international competitive grants amounting $3.18 million. He recently received a highly competitive Australian Research Council (ARC) Linkage grant 2020. The project title is 'Novel Multilevel Modelling Framework for Developing Advanced Food Drying Systems' and the total funding is A$500,000. His current research areas are food drying, multiscale and multiphase modelling of food drying, Nanofluid solar thermal storage, concentrating PV-thermal collector, and Lean Healthcare Systems. He has won multiple international awards for his outstanding contributions in multidisciplinary fields.

TPR group members wish him all the best for future endeavors…!!!

Prof. Arun S. Mujumdar

Principal Mentor, TPR Group