Biography

Charbel Habchi received his Doctorate in Energy and Thermal Sciences from the University of Nantes in October 2010. During his PhD he conducted several research projects on the heat and mass transfer enhancement in multifunctional heat exchangers/reactors, using both experimental and numerical techniques. After graduation he worked for one year as a Postdoctoral Researcher at IMT Lille Douai where he conducted research projects on numerical simulation of fluid-structure interaction problems and on the bypass transition in boundary layer flows. In 2011 he joined the Lebanese International University as an Assistant Professor in Mechanical Engineering where he served as Department Research Leader for two years. In Fall 2015 he was appointed at Notre Dame University - Louaize as an Assistant Professor in Mechanical Engineering. Dr. Habchi is continuously supervising PhD candidates and MS students in collaboration with different French research institutes such as University of Angers and IMT Lille Douai. Moreover, he is working on several research projects in collaboration with researchers from the American University of Beirut in the fields of plasma physics, turbulence, mixing and heat transfer. Dr. Habchi received several grants to fund his research projects. His research interests are in computational fluid dynamics; heat and mass transfer enhancement; vortex generators; fluid-structure interactions; turbulence; pulsed laser propulsion.

Peer-reviewed Journals

International


Peer-reviewed Conference Proceedings

Local


Regional


International

- B. Mehra, J.V. Simo Tala, C. Habchi, J.L. Harion. Analyse des performances de transfert d’une ailette plane selon le principe local de synergie. SFT, Marseille, France, 2017.
• F. Hachem, M. Khaled, C. Habchi. Visualisation d’écoulement et analyses de profils de vitesse sur une surface concave pour des applications de turbines à gaz. 21th CFM, Bordeaux, France, 2013.
• C. Habchi, T. Lemenand, D. Della Valle, H. Peerhossaini. Intensifying the turbulent kinetic energy dissipation rate by redistributing the streamwise vorticity. GPE-EPIC, Venise, Italy, 2009.

Specialized Reports

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Esteemed indicators

Reviewer for
Applied Energy
Applied Thermal Engineering
ASME FEDSM Conferences
CEDRE Program
Chemical Engineering and Processing
Chemical Engineering Communications
Chemical Engineering Research and Design
Chemical Engineering Science
CNRS-L GRP
Energy
EuroTherm Seminars
IDEX Project Strasbourg University
International Journal of Heat and Fluid Flow
International Journal of Heat and Mass Transfer
International Journal of Hydrogen Energy
Journal of Fluids Engineering - ASME
Journal of Mechanical Engineering Science
Journal of Membrane Science
Journal of Process Mechanical Engineering
Physics of Fluids
SFT Conferences

**Member in**
American Society for Mechanical Engineers (ASME), USA.
LIED, University of Paris 7, France.
Order of Engineers, Beirut, Lebanon.

**CV**
https://www.dropbox.com/sh/g0tdhnih1yh5712/AABRB6ot0EPmpkCaRSJ28itua?dl=0
https://www.researchgate.net/profile/Charbel_Habchi