



1. Name : P. Rajesh Kanna  
 2. Highest Qualification(s) : Ph.D., D.Sc.,  
 3. Post-Doctoral Experience(s) :

i)	Taiwan - Post-doctoral fellows - National Taiwan University of Science and Technology, Taiwan for the period of Nov. 2006 to Feb. 2008 (16 months)
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4. Google Scholar : <https://scholar.google.co.in/citations?user=Nj3ZeyAAAAAJ&hl=en>.  
 5. Group Webpage : <https://orcid.org/0000-0002-3430-7575>.  
 6. Research fields : Heat Transfer, CFD, Green Energy, CO2 thermal systems, nanofluids.  
 7. Collaboration :

National	i) Dr. Manabendra Pathak Assistant Professor Department of Mechanical Engineering Indian Institute of Technology Patna Patliputra Colony, Patna-800013, India	ii) Dr. D. Arumuga Perumal, Department of Mechanical Engg, National Institute of Technology Karnataka, 575025, India.
International	i) <b>Professor Jan Taler, PhD, DSc</b> Institute of Thermal Power Engineering Cracow University of Technology Al. Jana Pawła II 37 31-864 Kraków. <b>Poland</b>	ii) <b>Dr. Ming-Jyh Chern</b> Professor Dept. of Mechanical Engineering NTUST, Taipei <b>Taiwan 10607</b>

8. Prize/Fellowships/Awards : Details

Prize	i) My student under my supervision won Budding Innovator Award – 2013 - Rs 1 Lakh by National Research Development Corporation, Govt. of India, New Delhi.
Fellowships	i) <b>Post-doctoral fellowship</b> from National Taiwan University of Science and Technology, <b>Taiwan</b> for the period of Nov. 2006 to Feb. 2008 (16 months). ii) DST Project under Fast Track Scheme – Young Scientist scheme. Ref Lr. SR/FTP/ETA-0015/2010
Awards	1) Received the Fellow (FHEA – Advance) status in recognition of attainment against the UK Professional Standards Framework for teaching and learning support in higher education. 2. Best Paper Award for “Centre for Innovation and Product Development’ – Sustainable Institute Industry Partnership (SIIP) – National level conference conducted by Society for Educational and Entrepreneurship Development (SEED) at IIT Madras during 3-4 Apr 2013.

9. Membership : List out the membership in professional bodies.

i)	1. Life member in Indian Society for Heat and Mass Transfer (ISHMT), India. ISHMT M. No: 485.
ii)	Life member in ISTE, India. M. No: LM 59099, Year 2008

10. Invited Talk : Total number. 3

11. Funded Projects/Consultancy : Ongoing: Details Completed: Details.

Ongoing	i) nil
Completed	i) Investigation of Conjugate Heat Transfer from a series of blocks mounted over a flat surface in a confined environment. DST Project under Fast Track Scheme. Cost. Rs

	6, 24,000/- . Ref Lr. SR/FTP/ETA-0015/2010. Role: Investigator. Status: Completed. 19 Apr '15. ii) Consultancy Project: Design and Fabrication of Automated machine for filling Material, M/s Sri Kaliswari Fireworks, Sivakasi, and Cost: Rs. 1, 83,000. Completed on May 2012. iii) Project titled Efficient Approach of Coconut Plucking Process – A Human Powered, Safe Mechanical Device, Instrumentation Development Program of DST, and Govt. of India. Cost. Rs 23, 62,480. DST. Ref: D.O.No.IDP/IND/13/2012 by mail dated 30 Oct 2012. Role: Principal Investigator. Status: Completed Feb 2016.
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12. Ph.D. students : Ongoing: 3 Completed: 3.

13. Graduate projects : Ongoing: Total number Completed: 1.

14. Selected publications : Top 10. In the form of **Title, Journal name complete form, DOI, Year. (In the order of Recent to old)**

1.	Review of WCO as a Feedstock for Biofuel – Indian Perspective, Energies 2023, 16(4), 1739; <a href="https://doi.org/10.3390/en16041739">https://doi.org/10.3390/en16041739</a> .
2.	Numerical investigation of convective cooling in a rectangular vented cavity with two inlets and a hot obstacle, Published online: 04 Jan 2023. Numerical Heat Transfer Part A – Applications. DOI: <a href="https://doi.org/10.1080/10407782.2022.2154723">https://doi.org/10.1080/10407782.2022.2154723</a>
3.	Enhancement of heat transfer in SAH with polygonal and trapezoidal shape of the rib using CFD, Energy, 8 June 2021, 121154: <a href="https://doi.org/10.1016/j.energy.2021.121154">https://doi.org/10.1016/j.energy.2021.121154</a>
4.	Numerical investigation of convective heat transfer in a rectangular vented cavity with two outlets and cold partitions, International Communications in Heat and Mass Transfer, vol 129, 2021, DOI: <a href="https://doi.org/10.1016/j.icheatmasstransfer.2021.105659">https://doi.org/10.1016/j.icheatmasstransfer.2021.105659</a> .
5.	A New Method of Acquiring Perquisites of Recirculation and Vortex Flow in Sudden Expansion Solar Water Collector using Vortex Generator to Augment Heat Transfer, International Journal of Thermal Sciences, 153 (2020) 106346.
6.	A new method of enhancing heat transfer in sudden expansion channel using vortex generators with toe-out and toe-in configurations by acquiring perquisites of recirculation and secondary vortex flow, Journal of Mechanical Science and Technology. 33 (8) (2019) pp. 3913~3925. DOI 10.1007/s12206-019-07 -y.
7.	Numerical Investigation Of Heat Transfer From Flow Over Square Cylinder Placed In A Confined Channel Using Cu-Water Nanofluid, Thermal Science, 2019, Vol. 23, Suppl. 4, pp. S1-S14, Impact factor: 0.7 <a href="https://doi.org/10.2298/TSCI19S4367A">https://doi.org/10.2298/TSCI19S4367A</a>
8.	Numerical investigation of conjugate heat transfer from laminar wall jet flow over a shallow cavity," Heat Transfer Research 49(12):1151–1170 (2018),
9.	Numerical Investigation of Forced Convection Heat Transfer from Square Cylinders in a Channel Covered by Solid wall - Conjugate Situation. FME Transactions (2017) 45, 16-25 16 Heat transfer – Asian Research – Dol: 10.5937/fmet1701016K.
10.	Numerical Simulation of Steady Flow and Forced Convection Heat Transfer from Two Offset Square Cylinders Placed in a Channel, Arabian Journal for Science and Engineering, 2017, Volume 42, Issue 5, pp 1795–1815.. DOI: 10.1007/s13369-016-2311-3

15. Other activities : Not exceedingly more than 5.

i)	Guest Editor for Heat Transfer Engineering : Selected Papers from the 27th National Conference on Internal Combustion Engines and Combustion (NCICEC 2022), Vellore Institute of Technology Vellore, India from 5 – 7 November 2022.
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