

**Anna University / Affiliated colleges**

**DC Member 1: Karthikeyan P**

**PSG College of Technology, Coimbatore.**

**LIST OF PUBLICATIONS IN INTERNATIONAL JOURNALS**

TITLE	YEAR
Comparative Study On Mechanical Behaviour Of Synthetic, Natural And Hybrid Composite Laminates N Rajamurugu, P Karthikeyan, A Aakash, AA Meshak, K Ajithkumar IOP Conference Series: Materials Science and Engineering 923 (1), 012048	2020
Numerical and experimental investigation on 25 cm <sup>2</sup> and 100 cm <sup>2</sup> PEMFC with novel sinuous flow field for effective water removal and enhanced performance MK Vijayakrishnan, K Palaniswamy, J Ramasamy, T Kumaresan, ... International Journal of Hydrogen Energy 45 (13), 7848-7862	2020
Effect of Nafion loading and the novel flow field designs on Innovative anode electrocatalyst for improved DMFCs performance K Thanarajan, T Velumani, M Chandran, P Karthikeyan, A Thirkell, A Fly, ... Elsevier	2020
EFFECT OF FOLIAR APPLICATION OF DAP, HUMIC ACID AND MICRONUTRIENTS ON GROWTH CHARACTERS OF GROUNDNUT (ARACHIS HYPOGAEA L.) VAR. TMV 7 IN SANDY LOAM SOIL KS Reddy, R Bhuvaneswari, PK Karthikeyan Plant Archives 20 (1), 514-520	2020
Adoption of novel porous inserts in the flow channel of pem fuel cell for the mitigation of cathodic flooding	2019

- VRJ M.Karthikeyan, P.Karthikeyan, M.Muthukumar, V. Magesh Kannan, K ...  
International Journal of Hydrogen Energy (<https://doi.org/10.1016/j.ijhydene> ...  
A succinct review on fuel cells 2019  
SK Suraparaju, SK Natarajan, P Karthikeyan  
IOP Conference Series: Earth and Environmental Science 312 (1), 012012
- Experimental Investigation on DMFCs Using Reduced Noble Metal Loading with NiTiO<sub>3</sub> as Supportive Material to Enhance Cell Performances 2019  
V Thiagarajan, P Karthikeyan, K Thanarajan, S Neelakrishnan, ...  
International Journal of Hydrogen Energy 44 (26), 13415-13423
- Performance enhancement of interdigitated flow channel of PEMFC by scaling up study 2019  
KP Lakshminarayanan V  
Energy Sources, Part A: Recovery, Utilization, and Environmental Effects, 1-13
- Investigation of PEMFC performance with various configurations of serpentine and interdigitated flow channel 2019  
V Lakshminarayanan, P Karthikeyan  
Progress in Computational Fluid Dynamics, an International Journal 19 (5 ...
- Optimization of active area of proton exchange membrane fuel cell with better water management 2019  
M Karthikeyan, M Muthukumar, P Karthikeyan, C Mathan  
Journal of Ceramic Processing Research 20 (5), 490-498
- 3D-porous electrocatalytic foam based on Pt@N-doped graphene for high performance and durable polymer electrolyte membrane fuel cells 2019  
PB K. Karthikeyan, V.R. Appu, P.Manojkumar, T.Vijayaraghavan, P.Karthikeyan

Sustainable Energy & Fuels, 996-1011

Prediction of pressure dependent effective thermal conductivity of two phase materials in high temperature applications-An analytical method using hexagon and octagon models 2019

SC Raja, LA Kumaraswamidhas, P Karthikeyan, M Ramu

International Journal of Thermal Sciences 135, 192-205

Pt-Ru-NiTiO<sub>3</sub> Nanoparticles Dispersed on Vulcan as High Performance Electrocatalysts for the Methanol Oxidation Reaction (MOR) 2018

V Thiagarajan, P Karthikeyan, R Manoharan, S Sampath, ...

Electrocatalysis 9 (5), 582-592

Effect of primary and secondary parameters on analytical estimation of effective thermal conductivity of two phase materials using unit cell approach 2018

P Karthikeyan, LA Kumaraswamidhas, M Ramu

Heat and Mass Transfer 54 (5), 1323-1335

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Optimization of working parameters on wear behaviour of the sinter-forged plain carbon steel 2017

TK Kandavel, R Sravanesh, P Karthikeyan

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Comparison of perforated and serpentine flow fields on the performance of proton exchange membrane fuel cell 2017

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Experimental investigations on welding characteristics of sinter-forged pre-alloy Atomet  
4601 steel 2017

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The International Journal of Advanced Manufacturing Technology 88 (1-4 ...

A study on scaled up proton exchange membrane fuel cell with various flow channels  
for optimizing power output by effective water management using numerical technique 2016

SA Saco, RTK Raj, P Karthikeyan

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Influence of porous carbon inserts on scaling up studies for performance enhancement  
on PEMFC 2016

K Palaniswamy, M Marappan, VR Jothi

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Optimization of flow channel design and operating parameters on proton exchange  
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V Lakshminarayanan, P Karthikeyan

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Influence of Temperature and Pressure on the Performance of Proton Exchange  
Membrane Fuel Cell 2016

MM Kumar, P Karthikeyan, AP Kumar

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Numerical analysis on 36cm<sup>2</sup> PEM fuel cell for performance enhancement 2016

V Lakshminarayanan, P Karthikeyan, DS Kiran Kumar, SMK Dhilip Kumar

ARPJ Journal of Engineering and Applied Sciences 11 (2)

Optimization of deformation and densification properties of the sintered plain carbon steel 2015

TK Kandavel, T Panneerselvam, P Karthikeyan

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Experimental investigation on uniform and zigzag positioned porous inserts on the rib surface of cathode flow channel for performance enhancement in PEMFC 2015

P Karthikeyan, RJ Vasanth, M Muthukumar

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VR Lakshminarayanan, P Karthikeyan, C Aswin, DS Charandeep Singh

Transactions of FAMENA 39 (4), 79-88

Evaluation of supported and unsupported Pd-CeO<sub>2</sub> nanostructured anode electrocatalysts for the Formic Acid and the Glycerol Oxidation Reactions in acid media 2015

AAGAMFKKARMPKASCPMGPBPFJ Rodríguez-Varela

Journal of Applied Electrochemistry 45, 11951204

Performance Enhancement of the Proton Exchange Membrane Fuel Cell Using Pin Type  
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2015

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