

List of Publications in the last Five Years by Dr. P. Karthikeyan		
S. No	List of Publications	Year
1.	Thanarajan Kumaresan, Thiagarajan Velumani, Mathan Chandran, Karthikeyan Palaniswamy, Alex Thirkell, Ashley Fly, Rui Chen, Senthilarasu Sundaram, Effect of Nafion loading and the novel flow field designs on innovative anode electrocatalyst for improved Direct Methanol Fuel cells performance, Materials Letters, 276, 128222, 1 October 2020, Elsevier Publications.	2020
2.	Magesh Kannan, P. Karthikeyan et al., “Numerical and Experimental Investigation on 25 cm ² and 100 cm ² PEMFC with novel sinuous flow field for effective water removal and enhanced performance”, International Journal of Hydrogen Energy, 45, 13, 7848-7862, 6 March 2020, Elsevier Publications.	2020
3.	M. Karthikeyan, P. Karthikeyan et al., “Adoption of novel porous inserts in the flow channel of PEM Fuel cell for the mitigation of cathode flooding”, International Journal of Hydrogen Energy, 45, 13, 7863-7872, 6 March 2020. Elsevier Publications.	2020
4.	V. Thiagarajan, P. Karthikeyan, R. Chen, A. Fly et al., “Experimental Investigation on DMFCs Using Reduced Noble Metal Loading with NiTiO ₃ as Supportive Material to Enhance Cell Performance”, International Journal of Hydrogen Energy, 44, 26, 13415-13423, 21st May 2019 - Elsevier Publications.	2019
5.	K. Karthikeyan, V.R. Appu, P.Manojkumar, T.Vijayaraghavan, P.Karthikeyan, P. Biji, “3D-porous electrocatalytic foam based on Pt@N-doped graphene for high performance and durable polymer electrolyte membrane fuel cells”; Sustainable Energy & Fuels, RSC Publications, 3, 996-1011	2019
6.	S. Chidambara Raja, L.A. Kumaraswamidhas, P. Karthikeyan, M. Ramu, “Prediction of pressure dependent effective thermal conductivity of two phase materials in high temperature applications-An analytical method using hexagon and octagon	2019

	models” International Journal of Thermal sciences, Elsevier Publication 135, 192-205	
7.	Velumani Thiagarajan, Palaniswamy Karthikeyan, Ramasamy Manoharan, Srinivasan Sampath, A. Hernández-Ramírez, M.E. Sánchez-Castro, I.L. Alonso-Lemus, F.J. Rodríguez-Varela, “Pt-Ru-NiTiO ₃ Nanoparticles Dispersed on Vulcan as High Performance Electrocatalysts for the Methanol Oxidation Reaction (MOR)”, Electrocatalysis, 2018, 9, 582-292.	2018
8.	A. Hernandez-Ramirez, M. E. Sanchez-Castro, V. Thiagarajan, P. Karthikeyan et al., “Organometallic functionlization of graphene with Cr compounds as novel support of Pt-CoTiO ₃ /G nanocatalysts for the oxygen reduction reaction in alkaline media, 5th Nanotoday Conference, 6th to 10th December, 2017, Hawaii, USA – Elesivier publication	2017
9.	Subramaniam, S., Rajaram, G., Palaniswamy, K., & Jothi, V. R. (2017). Comparison of perforated and serpentine flow fields on the performance of proton exchange membrane fuel cell. Journal of the Energy Institute, 90(3), 363-371	2017
10.	Thiagarajan, Velumani, Ramasamy Manoharan, Palaniswamy Karthikeyan, Eliyan Nikhila, A. Hernández-Ramírez, and F. J. Rodriguez-Varela. "Pt nanoparticles supported on NiTiO ₃ /C as electrocatalyst towards high performance Methanol Oxidation Reaction." International Journal of Hydrogen Energy 42, no. 15 (2017): 9795-9805	2017
11.	Hernandez-Ramirez, M. E. Sanchez-Castro, I. Alonso-Lemus, Aruna K. Kunhiraman Aruna, P. Karthikeyan, R. Manoharan, and F. J. Rodriguez-Varela, Evaluation of the nickel titanate-modified pt nanostructured catalyst for the ORR in alkaline media, J. Electrochem Soc, 163 (2), (2016) F16-F24	2016
12.	Saco, S. A., Raj, R. T. K., & Karthikeyan, P. (2016). 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. Energy, 113, 558-573	2016

13.	Palaniswamy, K., Marappan, M., & Jothi, V. R. (2016). Influence of porous carbon inserts on scaling up studies for performance enhancement on PEMFC. International Journal of Hydrogen Energy, 41(4), 2867-2874.	2016
14.	Karthikeyan, P., Vasanth, R. J., & Muthukumar, M. (2015). Experimental investigation on uniform and sinuous positioned porous inserts on the rib surface of cathode flow channel for performance enhancement in PEMFC. International Journal of Hydrogen Energy, 40(13), 4641-4648.	2015
15.	Hernandez-Ramírez, M. E. Sanchez-Castro, F. J. Rodriguez-Varela Aruna K. Kunhiraman Aruna, P. Karthikeyan, and R. Manoharan, "Nanostructured Graphene-Supported Pt-NiTiO ₃ Catalyst for the Oxygen Reduction Reaction for Alkaline Direct Alcohol Fuel Cells Applications", 229th ECS meeting, 29th May – 2nd June, San Diego, CA, USA.	2015
16.	A. Altamirano-Gutiérrez, A.M. Fernández, Aruna K. Kunhiraman, R. Manoharan, P. Karthikeyan, A. Siller-Ceniceros, P. Meléndez-González, P. Bartolo-Pérez, F. J. Rodríguez-Varela, Evaluation of nanostructured supported and unsupported Pd-CeO ₂ anode electrocatalysts for the formic acid and the glycerol oxidation reactions in acid media. J Appl. Electrochem, 45 (2015) 1195	2015