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Publication in Journals

1. **P.Ponnusamy**,G.Rajendran,R.Subramaniam and N.Nedunchezian, “Experimental Investigation of Catalytic Surface Reaction for Different Metal Surfaces”, International Journal of Innovative Systems Design and Engineering,ISSN 2222-1727,Vol. 2,No.5,2011 PP 82-92
2. **P.Ponnusamy**,R.Subramaniam and N.Nedunchezian, “Experimental Investigation on Performance, Emission and Combustion Analysis of a Four Stroke SI Engine with Various Catalytic Coatings”, European Journal of Scientific Research, ISSN 1450-216X, Vol. 63, No.2(2011) PP 182-191
3. **P.Ponnusamy**,R.Subramaniam and N.Nedunchezian,“An Experimental Study on the Effect of Engine Speed On Performance, Emission and Combustion of a Four Stroke SI Engine with Various Catalytic Coatings”, International Journal of Production Technology and Management Research, Published by Internal Science Press ISSN: 2229-3140, Vol.2, No.2, 2011 PP 81-86
4. **P.Ponnusamy**,R.Subramaniam and N.Nedunchezian, “An Experimental Study on the Effect of EGR on Performance and Emission on Four Stroke SI Engine with various Catalytic Coatings”, International Journal of Elixir Thermal Engineering ISSN 2229-712X,43 (2012), 6586-6589
5. **P.Ponnusamy**,M.K.VijayaPrabhu and J. SenthilKumar, “Performance of Various Cutting Fluids by Estimating Surface Roughness of Mild Steel in Turning”, International Journal of Engineering Research & Technology (IJERT) Vol. 2, Issue 12, Dec’13, PP 1895-1900
6. **P.Ponnusamy**, “Experimental Investigation Of Catalytic Reaction Over Catalytic Coated Surface” International Journal for Research in Applied Science and Engineering Technology (IJRASET) ISSN NO.:2321-9653 Vol.3,Issue 4 April ’15,PP 948-952.

7. **P.Ponnusamy**, “Investigation Of Emission Characteristics over Catalytic Coated Surface with EGR in SI Engine ” International Journal of Emerging Trends in Engineering and Development (IJETED) ISSN NO.:2249-6149,Vol.4,Issue 5 June-July '15,
8. **P.Ponnusamy**, Manu Varughese Daniel and Ashwini Sharma, “ A Literature Review on the Effect of Different Types of Coating on the Performance and Emission of I.C Engines” Transactions on Engineering and Sciences ISSN: 2347-1964 (Online) 2347-1875 (Print) Special Issue on International Conference on Synergistic Evolutions in Engineering (ICSEE) – 2015. PP 383-387
9. **Dr. P. Ponnusamy**, Dr. N. Nedunchezian and W.Edwin Santhkumar, “Mathematical Modeling of Flame Quenching Phenomena In a Catalytic Coated Four Stroke Si Engine ” International Journal of Advanced Engineering Technology E-ISSN 0976-3945 Volume VII/ Issue II/ April- June'2016/226-231
10. **Dr. P. Ponnusamy**, Dr. V.K.Shunmughanaathan and W.Edwin Santhkumar, “ Experimental Analysis of Process Parameters in Friction Stir Welding Using Aluminium 2024 And Aluminium 7075 ” International Journal of Advanced Engineering Technology E-ISSN 0976-3945 Volume VII/ Issue II/ April-June'2016/134-139
11. P. Sakthivel, N. Nedunchezian, **P. Ponnusamy**,” Effect of Catalytic Coatings on the Performance, Emission and Combustion Characteristics of Spark Ignition Engines ” International Journal of Vehicle Structures and Systems, Vol 7, No 4 (2015).
12. **Dr.P.Ponnusamy**, M. Srividhya, K.Bogeshwaran “Behavioral study of Plasma coated non- metallic catalysts on SI engines” International Journal Of Scientific Research And Review, Volume 7/ Issue 1/ January 2018
13. Giriraj Mannayee, Pandivelan C, Boopathi M, **Ponnusamy P**, Vivekraj Mannayee, , "Design and Analysis of Secure Data Enhancement in A Digital Manufacturing System", ISSN:09766340, International Journal of Mechanical Engineering and Technology, 2018, Paper No: 0907068, Vol: 9, Issue No:7, Pg No:659-668
14. Sangeetha M., **Ponnusamy P.**, Durgajeevitha, Shiva Ganesh S. (2019) Experimental Study on Mechanical Properties of Superelastic Alloy. In: Hiremath S., Shanmugam N., Bapu B. (eds) Advances in Manufacturing Technology. Lecture Notes in Mechanical Engineering. Springer, Singapore. https://doi.org/10.1007/978-981-13-6374-0_55 ISBN 978-981-13-6373-3
15. Selvaraj Kunjiappan,Panneerselvam Theivendran,Suraj Baskarara, **.Ponnusamy**

- Palanisamy**, et al. 'Modeling a pH sensitive Zein-co-acrylic acid hybrid hydrogels loaded 5-Fluorouracil and Rutin for enhanced anticancer efficacy by oral delivery 3 Biotech (2019) 9: 185. <https://doi.org/10.1007/s13205-019-1720-x> (IF 1.497)
16. R. Senthil kumar; G, Rajamurugan; K, Prabu; **P. Ponnusamy**” Comparative analysis of particle size on the mechanical and metallurgical characteristics of Al₂O₃ reinforced sintered and extruded AA2014 nano hybrid composite” Journal of Composite Materials.
<https://doi.org/10.1177/0021998319856676> (IF1.755)
 17. Selvaraj Kunjiappan, Panneerselvam Theivendran, Suraj Baskarara, **Ponnusamy Palanisamy**, et al. Optimization of bioactive compounds extraction assisted by microwave parameters from *Kappaphycus alvarezii* using RSM and ANFIS modeling", Journal of Food Measurement and Characterization (2019).
<https://doi.org/10.1007/s11694-019-00198-1> (IF 1.181)
 18. Selvaraj Kunjiappan, , Saravanan Govindara, **Ponnusamy Palanisamy**, et al “Design, insilico modelling and functionality theory of folate receptor targeted Myricetin -loaded bovine serum albumin nanoparticle formulation for cancer treatment” Journal of Nanotechnology accepted for publication (2018 Impact Factor: 3.399)

Papers Presented in International Conferences:

1. P.Ponnusamy and K.P.Vetrivel, “Development of Processing Map for 061Al/SiCp Composites”
Conference held in BHU, Varanasi
2. P.Ponnusamy and G.Prakash, “Hybrid airfoil design and computational fluid dynamic analysis
with build 10-MW wind Turbine” Conference held in Surya Engineering College, Erode
3. P.Ponnusamy and J.Senthil Kumar, “Performance Analysis Of Single Cylinder Diesel Engine
With Thermal Barrier Coating” Conference held in Surya Engineering College, Erode
4. P.Ponnusamy and L.Karthick, “A Computational Fluid Analysis Of The Fluid

Dynamics Of
Centrifugal Pump In Keree Impeller” Conference held in Surya Engineering
College, Erode

5. Edwin Santhkumar Wesley, Shunmughaanathan V. K., Ponnusamy P
“Investigation of Weld Penetration on GMAW/GTAW: An Exploratory Study with
Various Shielding Gas Mixtures” has been accepted for oral presentation as well as
inclusion in the conference proceedings of the ICDAWS2018 : 20th International
Conference on Design and Analysis of Welded Structures to be held in Singapore, SG
during March, 22-23, 2018.
6. P.Ponnusamy and N.Nedunchezian, “Experimental Analysis Of Catalytic
Activation Over
Catalytic Coated Surface” Conference held in Surya Engineering College, Erode

Papers Presented in National Conferences:

1. P.Ponnusamy, G.Rajendran, R.Subramaniam, R.Venkatachalam and
N.Nedunchezian, “Experimental Investigation on the Pre-flame Reaction over
Catalytic Coated Surface”, 22nd National Conference on I. C. Engines and Combustion
held at NIT, Calicut in Dec’11, PP228-235
2. P.Ponnusamy, “An Experimental Investigation on Esterified Jatropha Oil as an
Alternative Fuel
for Diesel Engine System” Conference held at ESEC, Thudupathy
3. P.Ponnusamy, “Coating Improve Engine Performance” Conference held at ESEC,
Thudupathy
4. P.Ponnusamy, “Study of Flame Quenching-An Overview” Conference held at
MPNMJEC,
Chennimalai
5. P.Ponnusamy and L.Karthick, “Increasing Performance of a Diesel Engine with
Yttrium Barium Copper Oxide Coated on Piston Crown and Valve Faces” Conference
held at Surya Engineering College, Erode
6. P.Ponnusamy and V.Vadivel Vivek, “Design and Analysis of Automobile Alumina
Crank Shaft
in Comparison with EN8” Conference held at Surya Engineering College, Erode