

## Faculty Profile



Dr. R. CHRISTU PAUL  
Professor  
Department of Automobile Engineering,  
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Total Experience (in years): 26  
Research Area: Automobile Manufacturing, Materials and Optimization

### Recent Publications:

#### 1.1 International Journals:

1	C F John, <b>R C Paul</b> , SCE Singh, and T.Ramkumar, (2017), “Tribological behavior, mechanical properties and micro structure of Al-12 Si-ZrC composite prepared by powder metallurgy”, Bulletin of the Polish Academy of Sciences: Technical Sciences, Vol.65, No.2, pp 149-154, ISSN 0239-7528, (Scopus0.945)
2	C F John, <b>R.ChristuPaul</b> , S.C E Singh, and P. Sengottuvel (2017), “ Wear behavior of Al-12Si -xZrC composite by using Response Surface Methodology”, Journal of Advanced Research in Dynamical and Control Systems , 13-Special Issue, September 2017, ISSN 1943-023X, (Scopus 0.16.)
3	C F John, <b>R.ChristuPaul</b> , S.C E Singh, J Jacob Jose and P. Sengottuvel (2017), “Corrosion resistance on Al-12Si-xZrC composites using acid mediums”, International Journal of Mechanical and Mechatronics Engineering , Vol:17 No:05, pp. 67-74, ISSN 170205-6363, (Scopus 0.24.)
4	C F John, R.ChristuPaul, S.C E Singh, J Jacob Jose and T.Ram Kumar, (2018), “ Corrosion behavior of ZrC particles reinforcement with Al-12Si metal matrix composites by weight loss method using acidic mediums”, Bulletin of the Polish Academy of Sciences: Technical Sciences Vol.66, No.1, pp 9-16, ISSN 0239-7528, (Scopus 1.20) DOI: 10.24425/119053
5	Natarajan Just Raj, <b>R. Christu Paul</b> , S. JenorisMuthiyaband Dinesh Kumar (2018), “ Pollution control in gasoline engine using metal catalytic converter “, International Journal of Pure and Applied Mathematics, Volume 119, No. 7, pp. 1235-1242. (Scopus 0.13., ISSN: 1314:3395)
6	C.Fradaric John, <b>R.Christu Paul</b> , S.ChristopherEzhil Singh, J.Jacobjosed, T.Ramkumare and P.Sengottuvel, (2018), “Weight Loss Method for corrosion behaviour of Al-12si-ZrC Composites Using Response Surface Methodology”, International Journal of Applied Engineering Research, Volume 13, Number 6 , pp. 4428-4433, ISSN 0973-4562.(Scopus 0.80)
7	S.PavanKalyan and <b>R.Christu Paul</b> , K.KamalaKannan (2018), “Experimental Investigation of Areca fiber Reinforced Polypropylene polymer

	composite for Automotive Components”, International Journal of Pure and Applied Mathematics, Volume 118, No. 24, pp. 1-12. (Scopus 0.395, ISSN: 1314-3395, <b>May -2018</b> ).
<b>8</b>	Siva Kumar P. and <b>Christu Paul, R</b> (2018), “Preparation and Characterization of nano-silica filled Styrene Butadiene Rubber for Automotive Tyres”, International Journal of Pure and Applied Mathematics, Volume 118, No. 24, pp. 1-12. (Scopus 0.395, , ISSN: 1314-3395). <b>May -2018</b> ).
<b>9</b>	H. Sandeep, <b>R. Christu Paul</b> , V. Anandkrishnan and S. Sathish (2019), “Dielectric Permittivity, EMW Filtering and Mechanical Strength Behaviour of Cu-Particle/Microwire-Mesh Reinforced Unsaturated Polyester Composite In 2-18ghz Microwave Region” , Digest Journal of Nanomaterials and Biostructures, Vol. 14, No. 1, p. 145 – 152 ( <u>Scopus</u> )
<b>10</b>	V. Subbian, V. Nadanakumar, <b>R. Christu Paul</b> and K. Kalidasa Murugavel, (2019) “Mathematical And Experimental Analysis Of Solar Tunnel Dryer For Drying Beef As A Biological Product”, International Journal of Mechanical and Production Engineering Research and Development (IJMPERD), Vol.9, No. 4, pp489-498. (Scopus)- ISSN (P): 2249-6890
<b>11</b>	<b>R. Christu Paul</b> , Raja Joseph, V. Nadana Kumar, P. Booma Devi & S. Manigandan , (2019) “Experimental analysis of hybrid metal matrix composite reinforced with Al <sub>2</sub> O <sub>3</sub> and graphite”, International Journal of Ambient Energy, Vol.9, No. 4, pp489-498. ( <u>Scopus</u> ), ISSN: 0143-0750, <a href="https://doi.org/10.1080/01430750.2019.1653984">https://doi.org/10.1080/01430750.2019.1653984</a>
<b>12</b>	Sajin Justin Abhram Baby, <b>Christu Paul</b> , Ratheesh R, Akhil Kunnel Vijayan Pillai, Sivasubramanian Rathinam, (2019), “Emission study on dimethyl ether-biodiesel blends fuelled diesel engine”, , International Journal of Ambient Energy, Vol.9, No. 4, pp. ( <u>Scopus</u> ) <a href="https://doi.org/10.1080/01430750.2019.1694984">https://doi.org/10.1080/01430750.2019.1694984</a> , ISSN: 0143-0750
<b>13</b>	<b>R. Christu Paul</b> , R Balaji, A X Amal Rebin and Jaison, “Modification in Variable gear ratios along with fuel saving technology”, International Journal of Scientific & Technology Research, Vol. 4, No. 1, pp. 1-5. ( <u>Scopus</u> ), 2020, ISSN 2277-8616, <a href="https://www.scopus.com/sourceid/21100894501">https://www.scopus.com/sourceid/21100894501</a> ( <a href="https://www.scimagojr.com/journalsearch.php?q=21100894501&amp;tip=sid&amp;clean=0">https://www.scimagojr.com/journalsearch.php?q=21100894501&amp;tip=sid&amp;clean=0</a> )
<b>14</b>	<b>R. Christu Paul</b> , Balaji Ramachandran , Gullipalli Sushma , K.H. Aditya Harshavardhan, Isukapalli Rohith, “ An empirical research on areca fiber polymer composite for automotive components in modern industry”, Materials Today: Proceedings, 2020, 33, pp 4493-4497. <a href="https://doi.org/10.1016/j.matpr.2020.07.715">https://doi.org/10.1016/j.matpr.2020.07.715</a> ( Impact 0.34), ISSN: 214-7853/ ( <a href="https://www.scimagojr.com/journalsearch.php?q=21100370037&amp;tip=sid&amp;clean=0">https://www.scimagojr.com/journalsearch.php?q=21100370037&amp;tip=sid&amp;clean=0</a> )

## 1.2) International Conferences

1	<p>R Christu Paul , Shivnandaha Katari (2020) , “Redevelopment of the Pallet Design and Image Processing to Reduce Material Wastage during Crankshaft Manufacturing-A Case Study”, 3rd International Conference on “Advancements in Aeromechanical Materials for Manufacturing” : ICAAMM2020, AIP Conference Proceedings. .V. 2317, PP.050018-1–14; <a href="https://doi.org/10.1063/5.0036322">https://doi.org/10.1063/5.0036322</a>( Scopus) <a href="https://www.scimagojr.com/journalsearch.php?q=26916&amp;tip=sid&amp;clean=0">https://www.scimagojr.com/journalsearch.php?q=26916&amp;tip=sid&amp;clean=0</a></p>
2	<p>D. Raja Joseph<sup>1,a</sup>, S. Murugesan<sup>1</sup>, A. Deepanraj<sup>1</sup>, and R. Christu Paul, “Optimization of ejector design using CFD analysis”, AIP Conference Proceedings Published Online: 07 December 2020, 3rd International Conference on Frontiers in Automobile and Mechanical Engineering (FAME 2020) ( Scopus)- <a href="https://doi.org/10.1063/5.0034392">https://doi.org/10.1063/5.0034392</a>, ISSN-2311, 030018</p>
3	<p>V. Subbian, R. Christu Paul, R. Sathish Kumar, and V. Nadanakumar,(2020), “Optimization of Solar Tunnel Dryer for Four Different Edible Products Using Response Surface Methodology”, Advances in Design and Thermal Systems, Lecture Notes in Mechanical Engineering, (Springer Series) , vol. 11236,pp. 95-118. <a href="https://doi.org/10.1007/978-981-33-6428-8_7">https://doi.org/10.1007/978-981-33-6428-8_7</a>. (Scopus) ISSN 2195-4356</p>
4	<p>V. Nadanakumar, R. Christupaul, Ravishankar Sathyamurthy, and R. Sathish Kumar, 2020), “Experimental Study on the Combustion, Performance and Emission Characteristics of a Diesel Engine Operated with the Blends of Waste Chicken Oil Biodiesel and Diesel”, , Advances in Design and Thermal Systems, Lecture Notes in Mechanical Engineering (Springer Series), vol. 11236, pp. 143-154, ,<a href="https://doi.org/10.1007/978-981-33-6428-8_10">https://doi.org/10.1007/978-981-33-6428-8_10</a>. (Scopus)-ISSN 2195-4356 <a href="https://www.scimagojr.com/journalsearch.php?q=21100431311&amp;tip=sid&amp;clean=0">https://www.scimagojr.com/journalsearch.php?q=21100431311&amp;tip=sid&amp;clean=0</a></p>