


Faculty Profile

Name :	Dr. S. JAYASATHYAKAWIN				
Date of Birth :	04.04.1994				
Highest Qualification :	Ph.D				
Date of Joining :	01/09/2023				
Designation :	Assistant Professor				
Date of promotion (Present Designation) :					
Area of Interest :	Composite Materials, Materials Synthesis, Metal Matrix Composites				
Mobile No :	9940784970		Email ID :	jayasathyakawin.s@trp.srmtrichy.edu.in	
Experience :	Teaching :	01 Year	Industry :		Research : 3 Years & 6 Months
Address (for Communication) :	1/924, Second Cross (West Extn), Vasan Nagar, Vayalur Road, Trichy-620102				

Association with Professional Bodies

Name (Professional Body)	The Institution of Engineers India			
Type of Membership	Associate Member (AM1958642)			

Research

Ph. D Guidance					
Supervisor / Guide ship No. :	-	University :	-	No. of Scholars :	-
Publication*					
International Journals :	17	National Journals :			
International Conference :	6	National Conference :		1	
Project Grants (Research projects guided or undertaken/ Sponsored Projects)					
Received (Amount) :	1,00,000	Applied (Amount) :		-	
Patent					
Published :	1	Granted :		1	

Books

Published :	NIL
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FDPs / STTPs / Workshops / Seminars etc.,

FDP	STTP	Workshop	Seminar	Others

Attended :	8	Attended :	2	Attended :	5	Attended :		Attended :	6
Organized :		Organized :		Organized :		Organized :		Organized :	

Online courses (NPTEL, MOOC etc.)	NIL
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***List of Publications :**

International Journals Publications (Science Citation Indexed): (05)

1. **S. Jayasathyakawin**, M. Ravichandran, Sikiru Oluwarotimi Ismail and G. Veerappan "Effects of ZnO addition on the microstructure/corrosion, wear and mechanical properties of sintered Mg-Al matrix composites" Journal of Alloys and Compounds, 958 (2023) 170500 (**Q1, IF – 6.2**)
2. P.P. Shantharaman, V. Anandakrishnan, S. Sathish, M. Ravichandran, R. Naveenkumar, **S. Jayasathyakawin** and S. Rajesh "Investigations on the microstructure and properties of yttria and silicon carbide reinforced aluminium composites" Heliyon 9 (2023), e15462 (**Q1, IF- 4**)
3. **S Jayasathyakawin** and M Ravichandran "Fabrication and wear behaviour of Mg-3 wt.%Al - x wt. % SiC composites" Heliyon, 9 (2023) e13679 (**Q1, IF - 4**)
4. **S. Jayasathyakawin**, M. Ravichandran, Sikiru Oluwarotimi Ismail and D. Srinivasan "Effect of hydroxyapatite addition on the microstructure and mechanical properties of sintered magnesium matrix composites" Materials Today Communications, 35 (2023) 105582 (**Q2, IF – 3.8**).
5. **S Jayasathyakawin** and M Ravichandran "Experimental Investigations on Effect of Silicon Carbide on Microstructure and Mechanical Properties in Mg-3 wt% Al Alloy Matrix Using Powder Metallurgy" Silicon, 14 (2022) 9163–9173 (**Q2, IF – 3.4**).

International Journals Publications (Scopus Indexed): (12)

1. T Siva, R Babuji, G Paramesh, S Bagavathy, T Santhiya, **S Jayasathyakawin**, G Veerappan "Machine learning enabled optimization techniques for exploring the mechanical properties of stir cast AA6061" Materials Today: Proceedings, 74 (2023) 20-25.
2. M Nithya, D Pritima, S Vijayalakshmi, D Beulah David, K Muthukumar, G Veerappan, **S Jayasathyakawin** "Machine learning assisted investigation on properties of TiO2 reinforced aluminium metal matrix composites" Materials Today: Proceedings, 74 (2023) 80-84.
3. **S Jayasathyakawin**, M Ravichandran, V Mohanavel, S Dinesh Kumar, T Sathish, Sivanraju Rajkumar, Ram Subbiah "Copper Based Powder Metallurgy Composite for Electrical Applications" Materials Science Forum, 1068 (2022) 151-158.
4. **S Jayasathyakawin**, M Ravichandran, V Mohanavel, T Sathish, S Dinesh Kumar, Sivanraju Rajkumar, Ram Subbiah "A Review on Exploration of Magnesium Matrix Composites" Materials Science Forum, 1068 (2022) 63-70.

5. G Veerappan, D Pritima, NR Parthasarathy, B Ramesh and **S Jayasathyakawin** "Experimental investigation on machining behavior in dry turning of nickel based super alloy-Inconel 600 and analysis of surface integrity and tool wear in dry machining" Materials Today: Proceedings, 59 (2022) 1566-1570.
6. GB Sathishkumar, A Joseph Arockiam, SV Alagarsamy, P Sethuraman, C Chanakyan, C Anand Chairman, M Meignanamoorthy, M Ravichandran, **S Jayasathyakawin** and S Dinesh Kumar, "Influence of EDM parameters on Al₂O₃ & Gr reinforced aluminium matrix composites" Materials Today: Proceedings, Available online 19 May 2022 [In Press, Corrected Proof](#).
7. G Veerappan, D Pritima, NR Parthasarathy, B Ramesh, **S Jayasathyakawin** "Influence of cryogenic treatment on tool life, flank wear and surface roughness for machining nickel based super alloy-Haynes 282" Materials Today: Proceedings, 59 (2022) 1571-1574.
8. C Anand Chairman, **S Jayasathyakawin**, SP Kumaresh Babu and M Ravichandran "Mechanical properties of basalt fabric plain and twill weave reinforced epoxy composites" Materials Today: Proceedings, 46 (2021) 9480-9483.
9. GB Sathishkumar, P Sethuraman, C Chanakyan, S Sundaraselvan, A Joseph Arockiam, SV Alagarsamy, A Elmariung, M Meignanamoorthy, M Ravichandran and **S Jayasathyakawin** "Friction welding of similar and dissimilar materials: A review" Materials Today: Proceedings, Available online 27 March 2021 In Press, Corrected Proof.
10. **S Jayasathyakawin**, M Ravichandran, N Baskar, C Anand Chairman and R Balasundaram "Mechanical properties and applications of Magnesium alloy – Review" Materials Today: Proceedings, 27 (2020) 909-913.
11. **S Jayasathyakawin**, M Ravichandran, N Baskar, C Anand Chairman and R Balasundaram "Magnesium matrix composite for biomedical applications through powder metallurgy– Review" Materials Today: Proceedings, 27 (2020) 736-741.
12. C Anand Chairman, **S Jayasathyakawin**, D Srinivasan and M Ravichandran "Abrasive wear characteristics of bio-based jatropha oil cake incorporated basalt fiber reinforced epoxy composites" Materials Today: Proceedings, 33 (2020) 3947-3950.