

Dr. D. Jeyasimman Curriculum Vitae

<p>Dr. D. JEYASIMMAN. B.E., M.E., Ph.D. Associate Professor, Department of Mechanical Engineering, Periyar Maniammai Institute of Science & Technology, Thanjavur. 613403. E-mail: jeyasimman76@gmail.com Mobile : +91-9486020248</p>	<p>Google Scholar citations Total Citations: 336 h-index: 7 ORCID ID: 0000-0002-0780-9609 Scopus Author ID: J-5317-2019 Cumulative Impact Factor: 55.346</p>
--	--

Educational Qualifications:

Course	Specialization	Board/University	Period
Ph.D. (Full Time)	Materials Engineering	National Institute of Technology, Trichy-15, India (Central Govt. University)	2011-2015
M.E. (Full Time)	Manufacturing Engineering	National Engineering College, Kovilpatti, India (Anna University)	2002-2004
B.E. (Full Time)	Mechanical Engineering	Institute of Road and Transport Tech., Erode, India (Bharathiyar University)	1994-1998

Total Experience: 21 Years
Industrial Experience: 3 years

Teaching Experience: 15 Years
Research Experience: 3 Years

Experience

Name of the Organization	Designation	Period of Employment	
		From	To
Periyar Maniammai Institute of Science and Technology. Thanjavur.	Associate Professor	Nov. 2015	Till Date
Periyar Maniammai Institute of Science and Technology. Thanjavur.	Associate Professor & Head of Department	Feb.2016	June 2021
Periyar Maniammai Institute of Science and Technology. Thanjavur.	Asst. Professor (Senior Scale)	Sep 2014	October 2015
National Institute of Technology, Tiruchirappalli.	Research Scholar (Full Time)	Aug. 2011	Aug. 2014
Periyar Maniammai Institute of Science and Technology.. Thanjavur.	Asst. Professor	June 2009	July 2011

K.L.N. College of Engg., Madurai	Lecturer	June 2007	June 2009
Bharath Niketan Engineering College. Aundipatti	Sr. Lecturer	Sep. 2006	June 2007
Odayiappa College of Engg. &Tech. Theni.	Lecturer	June 2005	Sep. 2006
Vickram College of Engineering. Madurai	Lecturer	Jan. 2005	June 2005
Lakshmi Industrial Works, Trichy	Production Engineer	Sep. 2000	March 2002
Tamil Nadu State Transport Corporation, Dindigul	Asst. Engineer (Apprenticeship Training)	Aug. 1999	Aug. 2000

Research Area: Materials Engineering-Powder Metallurgy, Nanocomposites & Welding.

Ph. D. Research Title: Effects of various reinforcements on synthesis, characterization, Workability and dry sliding wear behavior AA 6061 nanocomposites prepared by Mechanical Alloying

Industrial Exposure: I did experimental work for my Ph.D. research in Heavy Alloy Penetrator Project, Tiruchirappalli at Powder Metallurgy Shop (Jan. 2013- Dec.2013).

National Contributions: I have acted as a Validator for AICTE-SWAYAM Courses Translation Work (English to Tamil) for Manufacturing Engineering Course on Oct.2021 and Fluid Mechanics Course on March 2022.

Industry Collaboration Project: Synthesis and chemical behavior of Silver –Zinc oxide electrode Nanomaterials-High Energy Battery Ltd.-India- Battery cell Fabrication and testing completed-Research article preparation s going on.

Project Grants: 2 Nos

Sl. No	Title	Agency	Amount (Rs)
1	Effects of various reinforcements on synthesis, characterization, Workability behavior AA 6061 nanocomposites prepared by Mechanical Alloying	National Institute of Technology, Tiruchirappalli	1,00,000
2	Synthesis and chemical behavior of Silver –Zinc oxide electrode nanomaterials	Periyar Maniammai Institute of Science and Technology, Thanjavur	50,000

Patents: 5 Nos

Sl. No	Patent Title	Patent Number	Patent Type	Status
1	Multistage Filtration of Industrial Waste Water with automated	20241057084	Indian	Published

	Supervisory control through IOT Cloud Computing Sensor Network System			
2	Dynamic Scheduling of Ultra High Speed Multitasking Processor to handle Integrated Sensor circuits in Automated Robot	202141013948	Indian	Published
3	Parametric Analysis and Reduction of Crown Shrinkage in Piston Castings	202141014297	Indian	Published
4	Method to Identify Effect of Non-Metallic Inclusions In Segregated Banded-Zone during Plate Butt Joint Welding	2021102151	Australian Innovation Patent	Granted
5	Artificial Intelligence based Smart Computing on-board ECU for predicting Vehicle Parts Reliability and Failure	2021107427	Australian Innovation Patent	Granted

Awards Received: 6 Nos

Sl. N	Award	Year	From Organization/Society
1.	Faculty of the Year Award-Engineering Male	2021	3 rd International Business Academic Excellence (IBAE) Awards 2021
2.	IGIP International Engineering Educator Award-(as the title of Ing. Paed. IGIP)	2020	International Society of Engineering Pedagogy, Austria.
3.	HOD of the Year Award	2020	Institute of Scholars, Karnataka, India
4.	Academic Excellence Award	2020	Institute of Scholars, Karnataka, India
5.	Letter of Appreciation for Dedication and Commitment towards Teaching, Mentoring and Research	2020	Periyar Maniammai Institute of Science and Technology, Vallam, Thanjavur, Tamil Nadu, India
6.	Best Commendable Work Award	2019	Periyar Maniammai Institute of Science and Technology, Vallam, Thanjavur, Tamil Nadu, India

Ph.D. Guideship: 5

Completed: 4

Ongoing: 1

Sl. No	Candidate Name	Area/Title of Research	Status	Guide ship
1.	Mr.S.Saravanan	Investigation of Spring Back Effect on High Strength Sheet Metals	Completed	Co-Supervisor
2.	Mr.N.Ramasamy	Analysis on Angular Distortion and Control of Plug Welded Steel Structure	Completed	Co-Supervisor
3.	Mr.Varaprasad Kavity	Dry Sliding Wear behavior of Al ₂ O ₃ /BN reinforced AZ 31 B Nanocomposites	Completed	Supervisor
4.	Mr.C.V.Govindan	Defect Inspection based on Segmentation and Defective	Completed	Supervisor

		Tracking in Welding Images with Orthogonal Polynomials		
5.	Mr.A.Syed Bava Fakrudeen	Effect of Compaction Pressure, Sintering Temperature and Recovery Heat Treatment Temperature of Powder Metallurgical Fe-20Mn-5Si-5Ni-8Cr Shape Memory Alloy	Synopsis Submitted.	Supervisor

Publications: 41

Conferences: 11

Elsevier Journals-7

Total Cumulative Impact Factor- 45.703

1. Varaprasad Kavity, **D.Jeyasimman**, Gururaj, Manoj Gupta, R.Narayanasamy (2018) Investigations on Dry sliding wear behavior of Mg/BN nanocomposites. Journal of Magnesium and alloys. 6, 263-276. **IF-10.088**
2. **D.Jeyasimman** and R.Narayanasamy (2015) Effect of coarse grain content on microstructure, cold workability and strain hardening behavior of trimodal AA 6061 nanocomposites reinforced with multi-walled carbon nanotubes. Advanced Powder Technology. **27 (4)**, 1845-1851. **IF-4.833**
3. **D.Jeyasimman**, K.Sivaprasad, S.Sivasankaran, R.Ponalagusamy, R.Narayanasamy and Vijay Kumar Iyer (2015) Microstructural observation, consolidation and mechanical behavior of AA 6061 nanocomposites reinforced by gamma-Al₂O₃ nanoparticles. Advanced Powder Technology, **26**, 139-148. **IF-4.833**
4. **D.Jeyasimman**, R.Narayanasamy and R.Ponalagusamy (2015) Role of hybrid reinforcement on microstructural observation, characterization and consolidation behavior of AA 6061 nanocomposites. Advanced Powder Technology. **26 (4)**, 1171-1182. **IF-4.833**
5. **D.Jeyasimman**, S.Sivasankaran, K.Sivaprasad, R.Narayanasamy and R.S.Kambali (2014) An investigation of synthesis, consolidation and mechanical behaviour of Al 6061 nanocomposites reinforced by TiC via mechanical alloying, Materials & Design **57**, 394-404. **IF- 7.991**
6. **D.Jeyasimman**, K.Sivaprasad, S.Sivasankaran and R.Narayanasamy (2014) Fabrication and consolidation behavior of Al 6061 nanocomposite powders reinforced by multi-walled carbon nanotubes, Powder Technology, **258**, 189-97. **IF- 5.134**
7. **D.Jeyasimman**, R.Narayanasamy, R.Ponalagusamy, V.Anandakrishnan and M.Kamaraj (2014) The effects of various reinforcements on dry sliding wear behaviour of AA 6061 nanocomposites. Materials & Design, **64**, 783-793. **IF- 7.991**

Springer Journals -5

Total Cumulative Impact Factor -6.907

8. A.Syed Bava Bakrudeen, **D.Jeyasimman**, A.Balaj (2022) Effect of Compaction Pressure, Sintering Temperature and Recovery Heat Treatment Temperature of Powder Metallurgical Fe-20Mn-5Si-5Ni-8Cr Shape Memory Alloy. MRS Advances. Vol.7, Issue 4. **IF-0.790**
9. N.Ramasamy, **D.Jeyasimman**, N.Raju. (2020) Effect of Intermetallic Compounds and Inclusions in Normalizing Rolled C-Mn Steel Plate Butt Joint Failure. Transactions of the Indian Institute of Metals volume 73, pages 2333-2343. **IF-1.499**

10. Varaprasad Kavity, **D.Jeyasimman**, Gururaj, Manoj Gupta, R.Narayanasamy and Praveennath G Goppad (2019) Improving the friction and wear Characteristics of AZ31 alloy with addition of Al₂O₃ nanoparticles. Materials Research Express. 6, 12. **IF-1.620**
11. N.Ramasamy, **D.Jeyasimman**, R.Kathravan, N.Raju. (2019) Influence of Welding sequences on Residual Stresses induced in-as Welded plug of Low-Carbon Steel Plate. Trans Indian Institute of Metals 72(5), 1361-1369. **IF-1.499**
12. M.Prabhakaran, **D.Jeyasimman**, N.Siva Shanmugam, Rajesh Kannan. A, M. Varatharajulu (2022) Weld Strength and Microstructure Analysis on Resistance Spot Welding of Austenitic AISI 347 Stainless Steel and Duplex AISI 2205 Stainless Steel. Under Review. Transactions of the Indian Institute of Metals. **IF-1.499**

Other Scopus Journals-11

Total Cumulative Impact Factor-2.736

13. A.Syed Bava Bakrudeen, **D.Jeyasimman**, A.Balaj (2022). Fabrication and Characterization of nanostructured Fe–28Mn–6Si–5Cr Shape Memory Alloy Accepted for Publication. International Journal of advanced and applied sciences. **IF- 0.108**
14. R.Varaprasad Kavity, **D.Jeyasimman**, (2021) Investigation of Wear Behavior of Magnesium Reinforced with Boron Nitride Nanocomposite Using ANN. Journal of Mines, Metals & Fuels (JMMF). Vol.69, No.12 A. Dec. 2021, pp 190-194. **IF-0.070**
15. R.Varaprasad Kavity, **D.Jeyasimman**, R.Narayanasamy, Manoj Gupta and V.G.Bharath. (2021) Hot Compression and Processing maps of Magnesium reinforced with Boron Nitride Nanocomposites. IOP Conference Series: Materials Science and Engineering, 1126, 012057. **IF-0.600**
16. C.V. Govindan, **D.Jeyasimman**, M.Ganesh (2020). Illuminating Welding Image Patterns throughout Image Searching in Chronological Information in Spot Welding. Solid State Technology. Vol. 63, Issue 4, Dec.2020, 3834-3839. **IF -0.110**
17. C.V. Govindan, **D.Jeyasimman**, M.Ganesh (2020) Detection Defects Surface of Welding Image with Transform Coefficients. Solid State Technology. Vol. 63, Issue 3, Nov.2020, 4106-4199. **IF -0.110**
18. S.Saravanan, M.Saravanan, **D.Jeyasimman** (2019) Study of Spring Back Effects on U-Bending Profile Process in Common Metal. International Journal of Mechanical and Production Engineering Research and Development. Vol.9, Special Issue 02, June 2019, 752-759. **IF-0.413**
19. S.Saravanan, M.Saravanan, **D.Jeyasimman** (2019) Experimental Prediction and Investigation of Spring Back In U Bending Profile Process Using RSM and ANOVA. International Journal of Mechanical and Production Engineering Research and Development. Vol.9, Special Issue 02, June 2019, 760-762. **IF-0.413**
20. **D.Jeyasimman**, V. Senthilkumar, R. Narayanasamy (2019) Hot Deformation Response of Al 6061-MWCNTs Alloy Composites. International Journal of Innovative Technology and Exploring Engineering. Vol.8, Issue 12, Oct.2019, 27-32. **IF-0.102**

21. I.Karthic Subramaniyan, P.K. Srividhya, **D. Jeyasimman (2019)** Effect of Feeding Technique in Mechanical Behaviour of Sic/Tio2 Reinforced AA 6082 Composites. International Journal of Recent Technology and Engineering. Vol.8, Issue 03, Sep.2019, 8233-8236. **IF-0.107**
22. S Saravanan, M Saravanan, **D.Jeyasimman (2018)** Study on Effects of Spring back on Sheet Metal Bending Using Simulation Methods. International Journal of Mechanical and Production Engineering Research and Development. Vol.8, Issue 02, Apr.2018. **IF-0.413**
23. S.Saravanan, M.Saravanan, **D.Jeyasimman,** M Vairavel **(2018)** Review-Methods and measurements of Spring back Evaluation. International Journal of Mechanical Engineering and Technology. Vol.9, Issue 05, May.2018. pp 1079-1090. **IF-0.290**

**Other International Journals-13, National Journals-6, International Conferences-7
National Conferences-4 & Membership- 6 Nos**

Workshops/Seminars/Conferences/convocation Organized- 17 Nos

Guest Lectures Delivered /Invited Lectures as a Resource Person - 9 Nos

Seminars/workshops/Faculty Development Programs attended- 45 Nos

Software Known: Unix, C, C+, Auto CAD, Visual Basic, Oracle, Solid works and Fusion 360.


Contact Information of Two Academic References

<p>Dr.R.Narayanasamy, Rtd. Professor, Department of Production Engineering, National Institute of Technology, Tiruchirappalli–620015, Tamil Nadu, India. Mobile No: +91-9443984160 E-Mail: narayan19355@gmail.com,</p>	<p>Dr.G.Venkatachalam, Professor, School of Mechanical Engineering, Vellore Institute of Technology (VIT), VIT Chennai Campus, Chennai – 600127, Tamil Nadu, India Email: gopvenki@gmail.com Mobile: +91-7358244532</p>
---	--

Declaration

I hereby declare that the above information provided is true to the best of my knowledge and belief.

Yours faithfully,



Place: Thanjavur.

Date: 15/05/2022

(Dr. D. JEYASIMMAN)