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Areas of Specialization / Research:

- Materials Science and Engineering
- Composite Materials
- Powder Metallurgy
- Manufacturing Engineering
- Mechanical Engineering
- Energy Engineering
- Friction Stir Welding
- Optimization Techniques

Educational Qualifications:

- **Ph.D. Mechanical Engineering** from Anna University, Chennai (2015).
- **M.E. Manufacturing Engineering** (First Class with Distinction) from Anna University, Chennai.
- **B.E. Mechanical Engineering** (First Class) from Madras University.

Professional Experience: Total – 16.1 Years

Total Number of Publications: 121 nos.

a. International Journals: 116 nos.

1. **B. Stalin**, M. Ravichandran, G.T. Sudha, A. Karthick, K. Soorya Prakash, A. Benjamin Asirdason, S. Saravanan (2020), Effect of titanium diboride ceramic particles on mechanical and wear behaviour of Cu-10 wt% W alloy composites processed by P/M route, Vacuum, 2020, 109895, <https://doi.org/10.1016/j.vacuum.2020.109895> (**Impact Factor: 2.906**) Elsevier

2. N.Nagaprasad, **B. Stalin**, V.Vignesh, M.Ravichandran, N.Rajini, S.O. Ismail (2020), Applicability of cellulosic-based Polyalthia longigolia seed filler reinforced vinyl ester biocomposites on tribological performance. Polymer Composites, 2020,pp.1–14. <https://doi.org/10.1002/pc.25865> **(Impact Factor: 2.265) Wiley**

3. J.Vairamuthu, **B.Stalin**, M. AdamKhan, B. Mohmed Fazil, S.Sathiyam (2020), Wear study and elaborate the parametric effect on cupronickel metal matrix, Materials Today: Proceedings, <https://doi.org/10.1016/j.matpr.2020.09.282>

4. J.Vairamuthu, **B.Stalin**, V. Ananda Natarajan, B. Mohmed Fazil, R.Balaji (2020), Material synthesis and spark erosion behavior of tantalum carbide based duralumin metal matrix composite, Materials Today: Proceedings, <https://doi.org/10.1016/j.matpr.2020.09.348>

5. **B. Stalin**, M. Ravichandran, S. Marichamy, T.D. Choumya Devi, S.V. Alagarsamy, V. Dhinakaran (2020), Friction welding parametric optimization of AISI 310L austenitic stainless steel weld joints - Grey relational investigation, AIP Conference Proceedings, 2283, 020141; <https://doi.org/10.1063/5.0024979>

6. T. Vishnu Vardhan, **B. Stalin**, S. Marichamy, M. Ravichandran, J. Vairamuthu and V. Dhinakaran (2020), Material synthesis, characterization and machining performance of terbium metal matrix composite, AIP Conference Proceedings, 2283, 020140; <https://doi.org/10.1063/5.0024969>

7. **B. Stalin**, T. Vishnu Vardhan, S. Marichamy, J. Vairamuthu, M. Ravichandran, V. Dhinakaran (2020), Investigations on ultrasonic machining of tellurium copper metal matrix, AIP Conference Proceedings, Vol. 2283(1), 020053; <https://doi.org/10.1063/5.0024967>

8. Dhinakaran V., Kumar A.R., Ramgopal R., Kannan S., **Stalin B.**, Jagadeesha T. (2021) Topology Optimization of Steering Knuckle. In: Arockiarajan A., Duraiselvam M., Raju R. (eds) Advances in Industrial Automation and Smart Manufacturing. Lecture Notes in Mechanical Engineering. Springer, Singapore. pp. 197-206, https://doi.org/10.1007/978-981-15-4739-3_17

9. Madan D., Rathnakumar P., Marichamy S., Ganesan P., Vinothbabu K., **Stalin B.** (2021) A Technological Assessment of the Ocean Wave Energy Converters. In: Arockiarajan A., Duraiselvam M., Raju R. (eds) Advances in Industrial Automation and Smart Manufacturing. Lecture Notes in

Mechanical Engineering. Springer, Singapore, pp. 1057-1072.
https://doi.org/10.1007/978-981-15-4739-3_91

10. Pritima D., **Stalin B.**, Vairamuthu J., Mallesham P., Srinivasa Rao M., Marichamy S. (2021) Analysis of Parameters on Bend Force in Nickel-Coated Mild Steel Sheets Through Contour Plot. In: Arockiarajan A., Duraiselvam M., Raju R. (eds) Advances in Industrial Automation and Smart Manufacturing. Lecture Notes in Mechanical Engineering. Springer, Singapore, pp. 647-652. https://doi.org/10.1007/978-981-15-4739-3_55
11. **Stalin B.**, Dhinakaran V., Ravichandran M., Sathiya Moorthi K., Vairamuthu J. (2021) Buckling Analysis of C-Stringer and Hat Stringer on the Load Carrying Vehicle. In: Arockiarajan A., Duraiselvam M., Raju R. (eds) Advances in Industrial Automation and Smart Manufacturing. Lecture Notes in Mechanical Engineering. Springer, Singapore, pp. 177-183. https://doi.org/10.1007/978-981-15-4739-3_15
12. Senthil Kumar P.S., Marichamy S., Sivakandhan C., **Stalin B.**, Dhinakaran V., Satyanarayana I. (2021) Evaluation of Material Properties and Abrasive Resistance of Tantalum Carbide-Based Hardox Steel for Construction Purpose. In: Arockiarajan A., Duraiselvam M., Raju R. (eds) Advances in Industrial Automation and Smart Manufacturing. Lecture Notes in Mechanical Engineering. Springer, Singapore, pp. 69-76. https://doi.org/10.1007/978-981-15-4739-3_6
13. **Stalin B.**, Dhinakaran V., Ravichandran M., Sathiya Moorthi K., Vairamuthu J. (2021) Fracture Analysis of C-Stringer and Hat Stringer on the Load Carrying Vehicle. In: Arockiarajan A., Duraiselvam M., Raju R. (eds) Advances in Industrial Automation and Smart Manufacturing. Lecture Notes in Mechanical Engineering. Springer, Singapore, pp. 47-55. https://doi.org/10.1007/978-981-15-4739-3_4
14. Pritima D., Padmanabhan P., Marichamy S., Sivakandhan C., **Stalin B.**, Dhinakaran V. (2021) Material Characterization and Parametric Effect on Nickel-Coated Mild Steel Sheets by Electroplating Process. In: Arockiarajan A., Duraiselvam M., Raju R. (eds) Advances in Industrial Automation and Smart Manufacturing. Lecture Notes in Mechanical Engineering. Springer, Singapore, pp. 465-471. https://doi.org/10.1007/978-981-15-4739-3_40
15. Augustine A., Vijayakumar J.D., Paulsingarayar S., Marichamy S., **Stalin B.**, Dhinakaran V. (2021) Parametric Effect and Laser Beam Machining of Rhenium Diboride-Based Molybdenum Metal Matrix. In: Arockiarajan A., Duraiselvam M., Raju R. (eds) Advances in Industrial

Automation and Smart Manufacturing. Lecture Notes in Mechanical Engineering. Springer, Singapore, pp. 725-732.
https://doi.org/10.1007/978-981-15-4739-3_64

16. Ganesan P., Sivakandhan C., Marichamy S., Madan D., **Stalin B.**, Dhinakaran V. (2021) Taguchi Optimization of AWJM Process Parameters on Aluminium Hybrid Composite. In: Arockiarajan A., Duraiselvam M., Raju R. (eds) Advances in Industrial Automation and Smart Manufacturing. Lecture Notes in Mechanical Engineering. Springer, Singapore, pp. 347-355. https://doi.org/10.1007/978-981-15-4739-3_28
17. Vishnu Vardhan T., Marichamy S., **Stalin B.**, Vairamuthu J., Dhinakaran V. (2021) Tribological Behaviour and Electric Discharge Drilling of Duplex Silicon Metal Matrix. In: Arockiarajan A., Duraiselvam M., Raju R. (eds) Advances in Industrial Automation and Smart Manufacturing. Lecture Notes in Mechanical Engineering. Springer, Singapore, pp. 553-562. https://doi.org/10.1007/978-981-15-4739-3_48
18. Santhanakrishnan Raman, J.Vairamuthu, **B.Stalin**, Ram Subbiah, S.Maniraj, Hardness performance analysis of chromel composite using end and lateral quenching method, Mater. Today:. Proc., <https://doi.org/10.1016/j.matpr.2020.09.037>
19. K.K.Naga Chandrika, K.Karthikeyan, N.Bharath, S.Muthukumaran, **B.Stalin**, Peel test experimentation on polycarbonate-based aluminium using fusion deposition modeling technique, Mater. Today:. Proc., <https://doi.org/10.1016/j.matpr.2020.09.270>
20. R.Senthil Kumar, V.Elango, K.Giridharan, V.M.Jothiprakash, **B.Stalin** (2020), Optimization and enhancement of friction stir welding strength on high yield strength deformed steel, Mater. Today:. Proc., <https://doi.org/10.1016/j.matpr.2020.09.149>
21. J.Vairamuthu, **B.Stalin**, G.D.Sivakumar, B.Mohmed Fazil, R.Balaji, V.Ananda Natarajan (2020), The effect of process parameters for synthesized copper metal matrix using stir casting process, Mater. Today:. Proc., <https://doi.org/10.1016/j.matpr.2020.09.262>
22. V.Dhinakaran, **B.Stalin**, M. Swapna Sai, J.Vairamuthu, S.Marichamy (2020), Recent developments of graphene composites for energy storage devices, Mater. Today:. Proc. <https://doi.org/10.1016/j.matpr.2020.08.631>

23. S.Bagavathy, P. Ramesh Kumar, P.Anantha Christu Raj, **B.Stalin** (2020), Frequency measurement through electric network analyzer for ultrasonic machining of steel, Mater. Today:. Proc., <https://doi.org/10.1016/j.matpr.2020.08.629>
24. J.Anix Joel Singh, T.Vishnu Vardhan, J.Vairamuthu, **B.Stalin**, Ram Subbiah (2020), Analyses of particle size and abrasive water jet drilling of synthesized chromel metal matrix, Mater. Today:. Proc., <https://doi.org/10.1016/j.matpr.2020.08.441>
25. A.Radhika, G.Thenmozhi, M.Balakarthikeyan, **B.Stalin** (2020), Enhancement of welding strength through electric current and resistance on ERSW process using chromium steel, Mater. Today:. Proc., <https://doi.org/10.1016/j.matpr.2020.08.363>
26. R.Geethamani, S.Jaganathan, S.Prem Anand, S.Sheeba Rani, **B.Stalin** (2020), Heat capacity improvement in the electric furnace through amendment of the electric circuit on melting of hardox steel, Mater. Today:. Proc., <https://doi.org/10.1016/j.matpr.2020.08.364>
27. S.Sheeba Rani, V.Kamatchi Sundari, P.Subha Hency Jose, S.Sivaranjani, **B.Stalin**, D.Pritima (2020), Enrichment of material subtraction rate on Eglin steel using electrical discharge machining process through modification of electrical circuits, Mater. Today:. Proc., <https://doi.org/10.1016/j.matpr.2020.07.670>
28. D.Pritima, J.Vairamuthu, P.Gopi Krishnan, S.Marichamy, **B.Stalin**, S.Sheeba Rani (2020), Response analysis on synthesized aluminium-scandium metal matrix composite using unconventional machining processes, Materials Today: Proceedings, <https://doi.org/10.1016/j.matpr.2020.07.672>
29. Shaik Khader Basha, N.V.Narasimha Rao, Meeravali Shaik, **B.Stalin** (2020), Performance analysis and control of NOx emissions in diesel engine using on-board acetylene gas from calcium carbide, Mater. Today:. Proc., <https://doi.org/10.1016/j.matpr.2020.08.439>
30. S.Rajamuneeswaran, J.Vairamuthu, S.Nagarajan, **B.Stalin**, S.Jayabal (2020), A comparative study on mechanical properties of coir fiber reinforced polymer composites filled with calcium carbonate particles, Mater. Today:. Proc. <https://doi.org/10.1016/j.matpr.2020.08.366>
31. T.Malini, R.Sudha, P.Anantha Christu Raj, **B.Stalin** (2020), The role of RTD and liquid sensors in electric arc furnace for melting of aluminium, Mater. Today:. Proc. <https://doi.org/10.1016/j.matpr.2020.08.371>

32. M.Balasubramanian, **B.Stalin**, S.Marichamy, K.Anandan, Ram Subbiah (2020), Assessment of weld joint strengths on dissimilar alloys of Inconel 625 and aluminium 7068 using FSW process, Materials Today: Proceedings, <https://doi.org/10.1016/j.matpr.2020.08.315>
33. M.Vetrivel Sezhian, R.Ramadoss, K.Giridharan, G.Chakravarthi, **B.Stalin**, Comparative study of friction stir welding process and its variables, Mater. Today: Proc., <https://doi.org/10.1016/j.matpr.2020.08.394>
34. J.Martin Sahayaraj, R.Arravind, P.Subramanian, S.Marichamy, **B.Stalin** (2020), Artificial neural network based prediction of responses on eglin steel using electrical discharge machining process, Mater. Today: Proc. <https://doi.org/10.1016/j.matpr.2020.07.664>
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36. K.Arun, C.Ramesh Kannan, **B.Stalin** (2020), The effect of cryogenically treated drilling tool on GFRP composite drilling holes-A comparative study, Mater. Today: Proc. <https://doi.org/10.1016/j.matpr.2020.07.579>
37. K. Ansal Muhammed, C.Ramesh Kannan, **B.Stalin** (2020), Performance analysis of wind turbine blade materials using nanocomposites, Mater. Today: Proc. <https://doi.org/10.1016/j.matpr.2020.07.578>
38. **B.Stalin**, G.T.Sudha, C. Kailasanathan, M.Ravichandran (2020), Effect of MoO₃ ceramic oxide reinforcement particulates on the microstructure and corrosion behaviour of Al alloy composites processed by P/M route, Materials Today Communications, Vol. 25, 101655. ISSN: 2352-4928 (**Impact Factor: 2.678**) <https://doi.org/10.1016/j.mtcomm.2020.101655>
39. **B.Stalin**, N.Nagaprasad, V.Vignesh, M.Ravichandran, N.Rajini, S.O.Ismail, F.Mohammad (2020), “Evaluation of mechanical, thermal and water absorption behaviors of Polyalthia longifolia seed reinforced vinyl ester composites”, Carbohydrate Polymers, Vol. 248, 116748. ISSN: 0144-8617 (**Impact Factor: 7.182**) Elsevier
40. **B.Stalin**, V.S.Vidhya, M.Ravichandran, A.Naresh Kumar, G. T.Sudha (2020), “Characterization and Properties of Mg-TiO₂ Composites Produced via Ball Milling and Powder Metallurgy”, Metallofizika i

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42. S.Marichamy, **B.Stalin**, M.Ravichandran, G.T.Sudha (2020), "Optimization of machining parameters of EDM for α - β brass using response surface methodology", Materials Today: Proceedings, Vol. 24, pp.1400–1409. ISSN: 2214-7853. DOI: 10.1016/j.matpr.2020.04.458.
43. M. Balasubramanian, M.K. Sathish Kumar, **B. Stalin**, M. Ravichandran (2020), "Theoretical predictions and experimental investigation on three stage hemispherical dome in superplastic forming process", Materials Today: Proceedings, Vol.24, pp.1424-1433. DOI: 10.1016/j.matpr.2020.04.461.
44. J.Rajaparthiban, S.Saravanel, M.Ravichandran, K.Vijayakumar, **B.Stalin** (2020), "Investigation on effect of machining parameters using TGRA approach for AISI 316 steel", Materials Today: Proceedings, Vol.24, pp.1282–1291.DOI: 10.1016/j.matpr.2020.04.443.
45. **B.Stalin**, P.Ramesh Kumar, M.Ravichandran (2020), "Investigations on characterization and properties of AA6063-Si₃N₄ composites fabricated through stir casting route", Materials Today: Proceedings, Vol.22 pp.2631–2637.
46. **B.Stalin**, G.T.Sudha, M. Ravichandran (2020), "Optimization of Powder Metallurgy Parameters for AA7072-MoO₃ Composites through Taguchi Method", Materials Today: Proceedings, Vol.22, pp.2622–2630. <https://doi.org/10.1016/j.matpr.2020.03.393>
47. **B.Stalin**, M.Ravichandran, S.Jasper, C.Ramesh Kannan (2020), "Synthesis and characterization of brass–AlN composites synthesized by ball milling", Materials Today: Proceedings, Vol.22, pp.2573–2581.
48. G.T.Sudha, **B.Stalin**, M. Ravichandran, M. Balasubramanian (2020), "Mechanical Properties, Characterization and Wear Behavior of Powder Metallurgy Composites-A Review", Materials Today: Proceedings, Vol.22, pp.2582–2596.

49. S.Raja, M.Ravichandran, **B.Stalin**, V.Anandakrishnan (2020), "A Review on Tribological, Mechanical, Corrosion and Wear Characteristics of Stir Cast AA6061 Composites", *Materials Today: Proceedings*, Vol.22, pp.2614–2621.
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51. M.Ravichandran, M.Meignanammoorthy, G.P.Chellasivam, J.Vairamuthu, A.Senthil Kumar, **B.Stalin** (2020), "Effect of Stir Casting Parameters on Properties of Cast Metal Matrix Composite, *Materials Today: Proceedings*, Vol.22, pp.2606–2613.
52. A.Karthick, P.Ramanan, A.Ghosh, **B.Stalin**, R.Vignesh Kumar, I.Baranilingesan (2020), "Performance enhancement of copper indium diselenide photovoltaic module using inorganic phase change material", *Asia-Pacific Journal of Chemical Engineering*, Vol.15, Issue no.5, e2480.pp.1-11, ISSN:1932-2135, DOI: 10.1002/apj.2480 **(Impact Factor: 1.06) Wiley**
53. M.Swapna Sai, V.Dhinakaran, K.P.Manoj Kumar, V.Rajkumar, **B.Stalin**, T.Sathish (2020), "A Systematic Review of effect of different welding process on mechanical properties of grade 5 titanium alloy", *Materials Today: Proceedings*, Vol.21, pp.948–953. DOI: 10.1016/j.matpr.2019.08.079.
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56. M. Balasubramanian, **B. Stalin**, K. Ramanathan, M. Ravichandran (2020), "Hot tensile test for determining the material constant on superplastic 5083Al alloy sheet", *Materials Today: Proceedings*, Vol.21 324–328. DOI:10.1016/j.matpr.2019.05.453.

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61. N.Nagaprasad, **B.Stalin**, V.Vignesh, M.Ravichandran, N.Rajini, S.O.Ismail (2020), "Effect of cellulosic filler loading on mechanical and thermal properties of date palm seed / vinyl ester composites", International Journal of Biological Macromolecules, Vol. 147, pp. 53-66. ISSN: 0141-8130. <https://doi.org/10.1016/j.ijbiomac.2019.11.247> **(Impact Factor: 5.162) Elsevier**
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Mechanical Engineering, pp.265-271. DOI: 10.1007/978-981-13-6374-0_31

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78. **B. Stalin**, K. Vadivel, S. Saravanel and M. Ravichandran (2018), "Finite element analysis of lap joint through RSM technique", International Journal of Advanced Technology and Engineering Exploration, Vol.5, no.48, pp. 440-444. (ISSN: 2394-7454)
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