



# P.E.S. College of Engineering, Mandya - 571401

(An Autonomous Institution, affiliated to VTU, Belagavi)

## Faculty Profile

### General

Name	<i>Dr. Sadashiva M</i>
Designation,	<i>Assistant Professor</i>
Department & Affiliated Institution	<i>Department of Mechanical Engineering, P.E.S College of Engineering, Mandya – 571 401</i>
Research Area	<i>Composite Materials, Friction Stir Welding</i>
Contact Number	<i>+9972212773</i>
Email ID	<i><a href="mailto:sadashiva015@gmail.com">sadashiva015@gmail.com</a></i>



### Academic Profile

#### Educational Qualifications

Degree	College	University	Year of Passing	% ge	Class
Ph. D	<i>JNTU Ananthpur</i>	<i>JNTU</i>	<i>2019</i>	<i>Awarded</i>	
M.E	<i>UVCE Bengaluru</i>	<i>Bengaluru</i>	<i>2011</i>	<i>86.37</i>	<i>Distinction</i>
B.E	<i>Dr.AIT Bengaluru</i>	<i>VTU</i>	<i>2009</i>	<i>58.27</i>	<i>Second Class</i>

#### Professional Experience

Organization and Department	Designation	Period	Total Experience
<i>MSEC, Bengaluru</i>	<i>Assistant Professor</i>	<i>2011-2012</i>	<i>1 Year</i>
<i>SVIT, Bengaluru</i>	<i>Assistant Professor</i>	<i>2012-2014</i>	<i>2 Years</i>
<i>PESCE, Mandya</i>	<i>Assistant Professor</i>	<i>2014-Till date</i>	<i>9 Years</i>

#### Reports on Academic and Research Activities

##### Academic Activities

Teaching Records (Details of courses taught)	<i>Material science and Metallurgy, Non-Traditional Machining, Non- Destructive Testing, Automotive Engineering, Computer Integrated Manufacturing, CAED and Elements of Mechanical Engineering</i>
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##### Research Guidance (Candidates Awarded / Pursuing Ph.D / M.Sc., Engg./ M.Phil)

Degree	Ph. D.	M.Sc., Engg.	M.Phil
Pursuing	<i>02</i>	<i>--</i>	<i>--</i>

##### Sponsored Research Projects (List of Projects taken up /completed and funds receiver & funding sources)

Project Title	Project Funded by	Grants Sanctioned	Grants Received
<i>02</i>	<i>AICTE, KSCST</i>	<i>18,76,500/-+10,000/-</i>	<i>--</i>

##### Research Publications in Refereed Journals and Conferences/Symposia

Number of Publications in	National	International
Journals	<i>00</i>	<i>31</i>
Conferences/Symposia	<i>01</i>	<i>25</i>
Patents/ Book published(No.)	<i>2Patents(2 applied), 04 Text Books, 04 Academic book Publications, 03(e-Book chapters)</i>	

##### Professional bodies Affliction: MIE (2019), MISTE (2012)

##### Achievements / Awards : RULA International Award (Best Researcher) -2018

##### Other Important Responsibilities Held in the College

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|---|---|
| 1. <i>MEA Secretary (2022-23)</i>           | 4. <i>Industry Institute Interaction (III Cell) coordinator-ME</i>                |
| 2. <i>BoE Chairman UG (2020-21)</i>         | 5. <i>Stock Varification Officer at Central Library</i>                           |
| 3. <i>KSCST Student Project coordinator</i> | 6. <i>SAGE journal, Taylor &amp; Francis, IEEE, QTanalytics™ Journal reviewer</i> |

## **LIST OF PUBLICATIONS (Incl Journals and Conference)**

### **International Journals :**

1. Dr.H.K.Shivanand, B.B.Anilkumar, Sapthagiri.G, **Sadashiva.M**, (2011), "*Deformation Strength and Failure Mode Analysis of Laminated Composites Subjected to Impact Loading*", *AMAE 2011*, DOI: 02.CEMC.2011.01.512, ISBN: 978-1-62993-402-0, pp. 184-188.
2. Keshavamurthy.Y.C, Dr.H.K.Shivanand, **Sadashiva.M**, Sapthagiri.G, (2011), "*Evaluation of Tensile Properties of Epoxy Based E- Glass / Carbon Fiber Laminate Composites*", *AMAE 2011*, DOI: 02.CEMC.2011.01.524, ISBN: 978-1-62993-402-0, pp. 189-193.
3. **Sadashiva.M**, H.K.Shivanand, (2018), "Study on Corrosion Behaviour of Friction Stir Welded AA 6061 Hybrid Metal Matrix Composite Plates", *International Journal of Recent Research Aspects (IJRRA)*, ISSN: 2349-7688, volume 5, Issue 4, Conscientious Computing Technologies, pp. 55-59. **Impact factor 1.235**
4. **Sadashiva.M**, H.K.Shivanand, (2018), "Investigation on Hardness Properties of Friction Stir welded AA 2024 Hybrid Metal Matrix Composite Plates", *International Journal of Recent Research Aspects (IJRRA)*, ISSN: 2349-7688, volume 5, Issue 4, Conscientious Computing Technologies, pp. 69-75. **Impact factor 1.235**
5. **Sadashiva.M**, H.K.Shivanand, (2018), "Characteristic Investigation on Impact Strength of Aluminium Based Hybrid Composite Plates Weld by FSW", *International Journal of Engineering and Technology (IJET)*, e- ISSN:2227-524X, doi : 10.14419/ijet.v7i3.12.15891, volume 7 (3.12) pp. 120-127. **Impact factor 0.135**
6. **Sadashiva.M**, H.K.Shivanand and H.N.Vidyasagar, (2018), "Characteristic Evaluation of Process Parameters of Friction Stir Welding of Aluminium 2024 Hybrid Composites", *Advances in Mechanical Design, Materials and Manufacture, American Institute of Physics (AIP) Conference Proceedings*, Volume 1943, 020054-1–020054-10; ISBN:9780735416383, <https://doi.org/10.1063/1.5029630>, pp. 020054 (1-10). **Impact factor 0.40 & Cited by 4.**
7. V.Sharanraj, C.M.Ramesha, V.Kumar, **Sadashiva.M**, (2019), "Finite Element Analysis of Zirconia Ceramic Biomaterials Used in Medical Dental Implants", *SPRINGER-INTERCERAM, International ceramic review*, ISSN: 0020-5214, Volume 68, Issue 3, pp. 24-31. **Impact factor 0.30 & Cited by 5**
8. **Sadashiva.M**, Srinivasa.M.R, Sharanraj.V, Santhosh.N, (2019), "Experimental Investigation on Tensile Characteristics of Hybrid Nanocomposites Joints by FSW With Optimized Welding Parameters", *Journal of Nano Science, Nanoengineering & Applications, STM Journals*, ISSN 2231-1777, Vol.9, Issue 2, pp 1-13. **Impact factor 1.134 & Cited by 2.**
9. Santhosh N, **Sadashiva M**, Srinivasa M R, Manjunath N, (2019) "Comparative Evaluation of Tensile Characteristics of Glass, Carbon fibre and Hybrid Carbon – Glass Fibre Composites", *Journal of Engineering Science and Technology*, Volume 02, Issue 03 pp. 25-35. **Impact factor 0.846**
10. Srinivasa M.R., Y.S. Rammohan, **Sadashiva M**, Santhosh N, (2020) "Effect of Shock Waves on the Hardness of Graphene Reinforced Aluminium Composites", *Journal of Polymer & Composites*, ISSN: 2321-2810 (Online), ISSN: 2321-8525 (Print) Volume 8, Issue 1, pp. 32-38. **Impact factor 4.22**
11. Srinivasa M R , Y S Rammohan , Karthik U N , **Sadashiva M**, (2020). "Analysis on wear properties of Graphene Hydroxyl Reinforced Aluminum Composites", *International Journal of Advanced Science and Technology*, Vol. 29, No. 6s, pp. 4162 – 4168. **Impact factor 0.48**

12. **Sadashiva M** , H K Shivanand , Srinivasa M R , Sharanraj V, (2020). “Evaluation of Toughness Properties of Aluminium based Metal Matrix Hybrid Composites Joined by Solid-State Welding”, *TEST Engineering & Management*, ISSN: 0193-4120, pp. 9859 – 9865. **Impact factor 0.43**
  
13. Goutham B K, M R Srinivasa, Y S Ram Mohan, **Sadashiva M**, (2020). “Analysis of Shock Waves Treated Aluminium 2024 Reinforced with Graphite”, *International Research Journal of Engineering and Technology (IRJET)*, e-ISSN: 2395-0056, p-ISSN: 2395-0072, Volume: 07, Issue: 08, pp. 2954-2960. **Impact factor 7.529**
  
14. Deekshith Samrat S A, M.R. Srinivasa, Dr. Y.S Rammohan, **Sadashiva M**, (2020). “Experimental Analysis of Fatigue Behaviour of Aluminium 2024 Reinforced with Graphite”, *International Journal of Advances in Engineering and Management (IJAEM)*, ISSN: 2395-5252, DOI: 10.35629/5252-0205145151, Volume 2, Issue 5, pp. 145-151. **Impact factor 7.429**
  
15. M.R. Srinivasa, Y. S. Rammohan, **M. Sadashiva**, (2020). “Analysis of mechanical properties of graphene reinforced aluminum composites treated with shock waves”, AIP Proceedings(American Institute of Physics), <https://doi.org/10.1063/5.0027005>, ISBN: 978-0-7354-4004-3, pp: 030040-1–030040-7. **Impact factor 0.4**
  
16. **M. Sadashiva**, J. V. Abhishek (2020). “Characteristic evaluation of tensile properties of hybrid bio composites with different orientation of fibers”, AIP Proceedings(American Institute of Physics), <https://doi.org/10.1063/5.0027005>, ISBN: 978-0-7354-4004-3, pp: 030041-1–030041-5. **Impact factor 0.4**
  
17. V. Sharanraj , C. M. Ramesha , K. Kavya , Vasantha Kumar , **M. Sadashiva**, B. R. Chandan & M. Naveen Kumar, (2020). “Zirconia: as a biocompatible biomaterial used in dental implants”, *Advances in Applied Ceramics*, Published by Taylor & Francis, ISSN: 1743-6753, DOI: 10.1080/17436753.2020.1865094 ,Volume 119, Issue 8, pp :1-6. **Impact factor 1.669 & Cited by 1.**
  
18. Siddesh Kumar. N. M, Monica J, Karthikareddy G, **Sadashiva. M**, Ganapathy Bawge,(2021), “Comparitive Study on Methods used to Improve the Corrosion Resistance Property of Aluminium Alloys – A Review”, *Solid State Technology*, ISSN:0038-111x Volume: 64 Issue:2 page:3196-3213. **Impact factor 0.095.**
  
19. **Sadashiva M**, M. Yunus Sheikh, Nouman Khan, Ramesh Kurbet, T.M.Deve Gowda, (2021), “ A Review on Application of Shape Memory Alloys”, *International Journal of Recent Technology and Engineering (IJRTE)* ISSN: 2277-3878, Volume-9 Issue-6, page:111- 120. **Impact factor 0.158 & Cited by 2.**
  
20. Sadashiva M, Praveen Kumar S, M K Yathish, Satish V T, Srinivasa M R, Sharanraj V, (2021), “Experimental investigation of bending characteristics of hybrid composites fabricated by hand layup method” *Journal of Physics: Conference Series*, volume 2089, 012033, page 1-7 AMSE 2021, IOP Publishing, doi:10.1088/1742-6596/2089/1/012033. **Q4 Journal, Impact factor 0.547.**
  
21. M.R. Srinivasa, Y.S. Rammohan, **M. Sadashiva**, M.K. Yathish, K. Ramesha and S. Thomas. 2021. Studies on Tensile Properties of Graphene Hydroxyl Reinforced Aluminium 6061 Composites for Vehicle Structures Applications, *Int. J. Vehicle Structures & Systems*, 13(5), ISSN: 0975-3060 (Print), 0975-3540 (Online), doi:10.4273/ijvss.13.5.26. **Impact factor 0.9522.**
  
22. **M. Sadashiva**, N.M. Siddesh kumar, J. Monica, M.R. Srinivasa, N. Santhosh and S. Praveen Kumar. 2021.The Effects of hardness and Impact strength Characteristics on Al Based Hybrid Composite FSW Joint, *Int. J. Vehicle Structures & Systems*, 13(6), 234-240, ISSN: 0975-3060 (Print), 0975-3540 (Online), doi: 10.4273/ijvss.13.6.04. **Impact factor 0.95**

23. Gujjala Anil Babu, **M. Sadashiva**, Ranjith R. Hombal , D. Aravinda, (2022). Fabrication and working of portable PPE kit sterilizer using UV Ozone Sanitization process, *Materials Today: Proceedings*, Elsevier, ISBN 2214-7853, <https://doi.org/10.1016/j.matpr.2022.01.021> **Impact factor 1.4**
24. H.K.Shivanand, **M. Sadashiva**, Paraveej, Shirahatti, S.ShivaPrakash, (2022). Comparative study on tensile characteristics of friction stir welded aluminium hybrid composite plates, *Materials Today: Proceedings*, Elsevier, ISBN 2214-7853, <https://doi.org/10.1016/j.matpr.2022.01.016>. **Impact factor 1.4**
25. N.M. Siddesh Kumar, Dhruthi G.K, Pramod, P. Samrat, **M. Sadashiva**, (2022). A Critical Review on Heat Treatment of Aluminium Alloys, *Materials Today: Proceedings*, Elsevier, ISBN 2214-7853, <https://doi.org/10.1016/j.matpr.2021.12.586>. **Impact factor 1.4**
26. N.M.Siddesh Kumar, **M.Sadashiva**, J.Monica, S.Praveen Kumar, (2022). Investigation on Corrosion Behaviour of Hybrid Aluminium Metal Matrix Composite Welded by Friction Stir Welding, *Materials Today: Proceedings*, Elsevier, ISBN 2214-7853, <https://doi.org/10.1016/j.matpr.2022.01.362>. **Impact factor 1.4**.
27. N. M. Siddesh Kumar, N. U. Dheeraj, Dhruthi, **M. Sadashiva**, T. N. Shashank, Pradeep K. Rohatgi, (2022). Coatings on Reinforcements in Aluminum Metal Matrix Composites, *International Journal of Metalcasting, Springer*, doi.org/10.1007/s40962-022-00831-8. **Impact factor 1.805**.
28. Kavya K, Sharanraj V, Ramesh CM, Naveen Kumar M, Kumar V, **Sadashiva M**, Anil Kumar , Chandan B R, (2022). Alumina: As a Biocompatible Biomaterial Used in Dental Implants, *Journal of Dental Applications*, Volume 8, Issue 1, ISSN : 2381-9049; Pages. 472-476. **Impact Factor: 2.8**
29. Dr. Sharanraj .V, Dr. C.M. Ramesha, Dr. T. Anil Kumar, Abhilash.S, Dr. Vasantha Kumar, Dr. Chandan.B .R, **Dr. Sadashiva. M**, (2022). Tribological Behaviour Study of Zirconia Toughened Alumina Bio-inert Biomaterial Used in Total Hip Joint Implant, *Gradiva Review Journal*, Volume 8 Issue 10, <https://doi.org/10.21203/rs.3.rs-1584398/v1>, ISSN NO : 0363-8057; Pages. 247-263. **Impact Factor: 6.1**
30. Vasantha Kumar, C. M. Ramesha, V. Sharanraj, **Sadashiva M**, Kavya K,(2023). In-Vitro Biocompatibility Study and Comparison of Magnesium AZ31 and PEEK 450G Biomaterials used as Cardiovascular Stent Implants, *Journal of Mines, Metals and Fuels*, DOI: 10.18311/jmmf/2023/33358, ISSN : 0022-2755, Volume 71(1): pages 66-72. **Q4 Journal, Impact Factor: 5.87**.
31. **Sadashiva M**, GourabSamajdar, Deekshith M V, Arjun N,(2023), Characteristic Evaluation of Mechanical Properties of Bio-Degradable Hybrid Composites Fabricated with Hand Layup Technique, *International Journal of Trend in Research and Development (IJTRD)*, ISSN: 2394-9333, Special Issue, July 2023, URL: <http://www.ijtrd.com/papers/IJTRD27072.pdf>, **Impact Factor: 6.710**.

#### **International Conference:**

1. Dr.H.K.Shivanand, B.B.Anilkumar, Sapthagiri.G and **Sadashiva.M**, “*Deformation Strength and Failure Mode Analysis of Laminated Composites Subjected to Impact Loading*” Entitled paper presented during the International Joint Colloquiums on Computer Electronics Electrical Mechanical and Civil (CEMC- 2011), Muvatupuzha, Kerala, India, during 20<sup>th</sup> -21<sup>st</sup> September, 2011.

2. Keshavamurthy.Y.C, Dr.H.K.Shivanand, **Sadashiva.M** and Sapthagiri.G,“*Evaluation of Tensile Properties of Epoxy Based E- Glass / Carbon Fiber Laminate Composites*” Entitled paper presented during the International Joint Colloquiums on Computer Electronics Electrical Mechanical and Civil (CEMC- 2011), Muvatupuzha, Kerala, India, during 20<sup>th</sup> -21<sup>st</sup> September, 2011.
3. **Sadashiva.M**, H.K.Shivanand and H.N.Vidyasagar, "*Characteristic Evaluation of Process Parameters of Friction Stir Welding of Aluminium 2024 Hybrid Composites*" Entitled paper presented during the "International Conference on Design, Materials & Manufacture -2018" Organized By The Department Of Mechanical Engineering, NITK Surathkal, during 29<sup>th</sup> to 31<sup>st</sup> January, 2018.
4. **Sadashiva.M**, H.K.Shivanand, "*Study on Corrosion Behaviour of Friction Stir Welded AA 6061 Hybrid Metal Matrix Composite Plates*", Entitled paper presented during the "International Conference on Innovative Ideas in Engineering and Technology (ICIET-2018)" held at Rao Bahadur Y Mahabaleswarappa Engineering College ( RYMEC), Ballari, Karnataka on 12<sup>th</sup> & 13<sup>th</sup> April, 2018.
5. **Sadashiva.M**, H.K.Shivanand, "*Investigation on hardness properties of friction stir welded AA 2024 hybrid metal matrix composite plates*", Entitled paper presented during the "International Conference On Innovative Ideas In Engineering And Technology (ICIET-2018)" held at Rao Bahadur Y Mahabaleswarappa Engineering College ( RYMEC), Ballari, Karnataka on 12<sup>th</sup> & 13<sup>th</sup> April, 2018.
6. **Sadashiva.M**, H.K.Shivanand, "*Characteristic Investigation on impact strength of aluminium based hybrid composite plates weld by FSW*" Entitled paper presented during the "Global Conference on Smart Innovations in Engineering Systems and Technology (SIEST) -2018" held at R.L. Jalappa Institute of Technology, Doddaballapur, Karnataka on 18<sup>th</sup>-19<sup>th</sup> May, 2018.
7. Srinivasa.M.R, Rammohan, **Sadashiva.M**, "*Enhancement of hardness of Graphene Reinforced Aluminium Composites with shock waves*", Third International conference on Recent Research Emerging Trends in Materials and Mechanical Engineering (ICRRETMME-2019)", held at REVA University, Bengaluru, 12<sup>th</sup> -13<sup>th</sup> July, 2019.
8. Srinivasa M R, Rammohan, **Sadashiva M**, "*Analysis of Mechanical Properties of Graphene Hydroxyl Reinforced Aluminium Composites Treated with Shock Waves*", International conference on Advances in Materials Research (ICAMR-2019), held at RUAS, Bengaluru, 25<sup>th</sup> -27<sup>th</sup> July, 2019.
9. **Sadashiva M**, Abhishek J V, "*Characteristic of Evaluation of Tensile Properties of Hybrid Bio Composite with Different Orientation of Fiber*", International conference on Advances in Materials Research (ICAMR-2019), held at RUAS, Bengaluru, 25<sup>th</sup> -27<sup>th</sup> July, 2019.
10. **Sadashiva M**, Abhishek J V, Srinivasa M R, Santhosh N "*Characteristic Evaluation of Bending Properties of Hybrid Bio Composites with Different Orientation of Fibers*" International conference on Innovative Engineering Design (ICoIED 2020) at The Institute Of Engineers, Dehradun on 18<sup>th</sup> - 20<sup>th</sup> January, 2020.
11. Srinivasa M R , Y S Rammohan , Karthik U N , **Sadashiva M**, "*Analysis on wear properties of graphene hydroxyl reinforced aluminum composites*", 2<sup>nd</sup> International conference on advances in mechanical engineering sciences (ICAMES-2k20) at PESCE, Mandya on 28<sup>th</sup> -29<sup>th</sup> Feb, 2020.
12. **Sadashiva M**, H K Shivanand , Srinivasa M R , Sharanraj V, "*Evaluation of toughness properties of aluminium based metal matrix hybrid composites joined by solid- state welding*", 2<sup>nd</sup> International conference on advances in mechanical engineering sciences (ICAMES-2k20) at PESCE, Mandya on 28<sup>th</sup> -29<sup>th</sup> Feb, 2020.
13. Siddesh kumar N M, **Sadashiva M**, Monica J, "*Speculative Testament of Corrosive Behaviour of Aluminium Composite Welded by FSW*", 4th International conference on inventive material science and applications (ICIMA-2021) at PPG Institute of Technology, Coimbatore on 14<sup>th</sup> -15<sup>th</sup> May, 2021.

14. SiddeshKumar N M, **Sadashiva M** Monica J, Praveen kumar S, “*Investigation on Corrosion Behaviour of Hybrid Aluminium Metal Matrix Composite Welded by Friction Stir Welding*”, *International Conference on Advances in Mechanical Engineering: Transcending at Mangalam College of Engineering, Ettumanoor, Kerala on July 22-23<sup>rd</sup>, 2021.*
15. Sharanraj V, **Sadashiva M**, Praveen Kumar S, M K Yathish, Satish V T, Srinivasa M R, “*Experimental investigation of bending characteristics of hybrid composites fabricated by hand layup method*”, 1<sup>st</sup> International Conference on Applied Mathematics, Modeling and Simulation in Engineering at *Stanley College of Engineering and Technology for Women, Hyderabad on 16<sup>th</sup> September, 2021.*
16. SiddeshKumar N M, Dhruthi, Pramod GK, Samrat P, **Sadashiva M**, “*A Critical Review on Heat Treatment of Aluminium Alloys*”, *International Conference on Artificial Intelligence And Energy Systems at St. Joseph's College of Engineering and Technology, Palai, Kerala on 08<sup>th</sup> - 09<sup>th</sup> December 2021.*
17. **Sadashiva M**, Shivanand H K, Paraveej Shirahatti, ShivaPrakash S, “*Comparative Study on Tensile Characteristics of Friction stir welded Aluminium Hybrid Composite Plates*”, 1st International Conference On *Design And Materials (ICDM), Delhi Technological University, Dehli, 27<sup>th</sup> -30<sup>th</sup> January 2022.*
18. **Sadashiva M**, Gujjala Anil Babu, Ranjith R Hombal, Aravinda D, “*Fabrication and working of Portable PPE Kit Sterilizer using UV Ozone Sanitization Process*”, 1st International Conference On *Design And Materials (ICDM), Delhi Technological University, Dehli, 27<sup>th</sup> -30<sup>th</sup> January 2022.*
19. **Sadashiva M**, GourabSamajdar, Deekshith M V, Arjun N, Characteristic Evaluation of Mechanical Properties of Bio-Degradable Hybrid Composites Fabricated with Hand Layup Technique, International conference on Sustainable economygrowth:Green Energy Technologies & Electrical Vehicles-2023.( ICSGET-2023),Sambram Institute of Technology, Bengaluru, 15<sup>th</sup> July, 2023.
20. **Sadashiva M**, H K Shivanand, Praveen Kumar S, Ganesha T, M R Srinivasa, Gourab Samajdar, Design and Fabrication of Portable Superhydrophobic Coated Dew Collector, First International Conference on Advances in Mechanical Engineering and Material Science (ICAMEMS-2022), VIT-Andhra Pradesh, 20th-22nd April, 2023.
21. Shwethasree R, J T Thirukrishna, Nandini Prasad K S, **Sadashiva M**, Spandana S G, Optimization of process parameters of friction stir welded AA2024 metal matrix composite plates and fretting wear using machine learning models, International Conference on Advances In Materials, Ceramics and Engineering Sciences (AMCES-2023), Dayananda Sagar College of Engineering, Bengaluru 13<sup>th</sup> - 15<sup>th</sup> March, 2023(**Best Paper Award**)
22. Shwethasree R, J T Thirukrishna, Nandini Prasad K S, **Sadashiva M**, Santhosh V, Spandana S G, Experimental Investigating and Comparative study of Tribological Properties of Friction-Welded and Stir Cast AA 2024 Composite Plates, International Conference on Advances In Materials, Ceramics and Engineering Sciences (AMCES-2023), Dayananda Sagar College of Engineering, Bengaluru, 13<sup>th</sup> -15<sup>th</sup> March, 2023.
23. Sharanraj V, **Sadashiva M**, Harshith Kumar TS, Santhosh V, Satish V T, M K Yathish, A comprehensive study on fretting behaviour of Al 6061 metal matrix hybrid composites fabricated with friction stir welding method International Conference on Sustainable Materials, Manufacturing & Industrial Engineering Siddaganga Institute of Technology, Tumakuru, Karnataka, 1st – 2nd July, 2022.
24. Sadashiva M, Santhosh V, Harshith Kumar , Praveen Kumar , MR Srinivasa, Siddeshkumar, An extensive study and evaluation of tribological properties of FSW plates using linear reciprocating tribometer (LRT), International Conference on Recent Developments in Mechanical Engineering (ICRDME-2022), Siddaganga Institute of Technology, Tumakuru, Karnataka, 24th -25th June, 2022.

25. Srinivasa M R, Chethana K Y, Rammohan Y S, **Sadashiva M**, Effect of reinforcement of graphene hydroxyl on tribological behaviour of aluminium 6061 composites International Conference on Recent Developments in Mechanical Engineering (ICRDME-2022) Siddaganga Institute of Technology, Tumakuru, Karnataka 24th -25th June, 2022.

#### **National Conference:**

1. **Sadashiva.M**, H.K.Shivanand, "*Comparative study on hardness behavior of AA6061 and AA6061 metal matrix hybrid composite with friction stir welding* " Entitled paper presented during the "National Conference on Materials, Mechanics, Manufacturing and Industrial Engineering - PRATIBIMB 2018 " held at Department of Industrial and Production Engineering, The National Institute Of Engineering, Mysore, Karnataka on 27<sup>th</sup>-28<sup>th</sup> April, 2018.

#### **e-Book chapters**

1. **M. Sadashiva**, M. R. Srinivasa, N. Santhosh, G. Ravichandran, and V. Sharanraj, "*Study on fretting wear characteristics of aluminum-based metal matrix hybrid composites fabricated by friction stir welding technique*", Materials Physics and Chemistry, **Apple Academic Press, Taylor And Franics Group**, ISBN e book : 9780367816094, ISBN hard copy : 978-1-77188-867-7, (Cost: \$ 159.95 US), page no:245-264, 2020.
2. M. R. Srinivasa, Y. S. Rammohan, and **M. Sadashiva**, "*Analysis of the Effect of ShockWaves on Fretting Behavior of Graphene Hydroxyl Reinforced Aluminum 6061 Composites*" Advances in Engineering Design, published by Springer Nature Singapore Pte Ltd. (e Book) ISBN: 978-981-33-4018-3, ISSN 2195-4364 (electronic) pp: 521-529, 2021.
3. Siddesh kumar N M, **Sadashiva M**, Monica J, "*Speculative Testament of Corrosive Behaviour of Aluminium Composite Welded by FSW*", Advances in Sustainability Science and Technology, Springer Nature Singapore Pte Ltd., ISBN: 978-981-16-4320-0 ISBN 978-981-16-4321-7 (eBook) [https://doi.org/10.1007/978-981-16-4321-7\\_36](https://doi.org/10.1007/978-981-16-4321-7_36), pages 429-440, 2021.

#### **Text Books Published:**

1. **Dr. Sadashiva M**, Dr. Santhosh N, Dr. Madhusudhan M, **Automobile Engineering**, Prakash A, Subhas stores Bengaluru, ISBN: 978-93-89164-00-8 (Cost: Rs.300), 2020.
2. **Dr. Sadashiva M**, Dr. Santhosh N, Ramesha K, **Additive Manufacturing**, Prakash A, Subhas stores, Bengaluru, ISBN: 978-93-89164-02-2 (Cost: Rs.300), 2020.
3. **Dr. Sadashiva M**, Karthikareddy G, Srinivasa M. R, **Non Destructive Testing**, Notion Press; 1st edition, **ISBN-10:1639977910, ISBN-13 : 978-1639977918**( cost ₹526.00 ), 2021
4. N. M. Siddesh Kumar, **M. Sadashiva**, J. Monica, **Inception to Non Traditional Machining**, Notion Press; 1st edition, **ISBN:9781684874941**( cost ₹199.00 ), 2021

#### **Academic Books Published:**

1. **Dr. Sadashiva M**, Dr. H. K Shivanand, Mr. M Yunus Sheik, "Friction stir welding of aluminum 6061 hybrid metal matrix composite", LAP, LAMBERT Academic Publishing, ISBN: 978-620-3-57408-1, pp. 54, 2021.
2. Dr. H. K. Shivanand, **Dr. Sadashiva M**, Mr. Karthikareddy G, "Fabrication of Al 2024 metal matrix composite plates by FSW", LAP, LAMBERT Academic Publishing, ISBN: 978-620-3-19801-0, pp. 48, 2021.
3. Yathish M. K., Srinivasa M. R. **Sadashiva M.**, "FEA of Drilling of CFRP Reinforced with Different Percentage of Si<sub>3</sub>N<sub>4</sub>", LAP, LAMBERT Academic Publishing, ISBN: 978-620-3-83964-7, pp.80, 2021.
4. **Dr. Sadashiva M**, Doddaswamy V, P Samrat, "Structural and Vibrational Analysis of Suspension Bracket", LAP, LAMBERT Academic Publishing, ISBN: 978-620-3-83951-7, pp. 60, 2021.

### **Patent Details:**

1. Fully autonomous smart manufacturing unit using Intelligent Feature Recognition Algorithm, **2021102713**, Application date 20/05/2021, Publication Date 23/06/2021, Commissioner of Patents, Australia.
2. Online reinforced learning of assembly sequence planning with interactive guidance systems for industry 4.0, **202141032004A**, The patent office journal no. 33/2021, Application date 16/07/2021, Publication Date 13/08/2021, Controller General of Patents, Designs & Trade Marks, India

### **Awards and Recognition:**

1. **The book was translated into 6 languages:** "Structural and Vibrational Analysis of Suspension Bracket", Lambert Academic Publishing, str. Armeneasca 28/1, office 1, Chisinau, MD-2012, Republic of Moldova, 10.03.2023, Armeneasca 28/1, office 1, Chisinau, MD-2012, Republic of Moldova.
2. **Best Paper Award (2023):** Optimization of process parameters of friction stir welded AA2024 metal matrix composite plates and fretting wear using machine learning models, International Conference on Advances In Materials, Ceramics and Engineering Sciences (AMCES-2023), 13th -15th March, 2023, Dayananda Sagar College of Engineering, Bengaluru
3. **Mentor, Smart India Hackathon Senior Hardware Edition Grand Finale- 2022:** 14062 - Simply smart UV Ozone sanitization unit, MHRD, GOI, AICTE, INNOVATION CELL, 25th - 29th August, 2022, Jaipur, Rajashtan
4. **II Place best project under Agriculture section:** Design and fabrication of Dew Extractor, Srishti-2022 – a state level project exhibition and competition, organized by Govt. Karnataka, VTU, ABVP, 25th -27th July, 2022 at BMS College of Engineering, Bengaluru, India.
5. **Best Project with Social Impact (2021)**, “Design and development of portable PPE Kit sterilizer using UV Ozone sanitization”, State-level student project exhibition & competition (SPEC 2021), Indian Welding Society on 20<sup>th</sup> July, 2021 held at Bangalore Institute of Technology, Bengaluru.
6. **Best Project (UG -2020)**, “Characteristic evaluation of mechanical properties of hybrid biocomposites fabricated with hand layup technique” on 21<sup>st</sup> November 2020 held at Industry Institute Interaction (III) Cell, PESCE, Mandya.
7. **Best Paper Award (2020)**, “Experimental investigations of carbon fiber reinforced hybrid composite laminate for high strength applications”, International conference on advances in materials, ceramics & Engineering sciences on 17<sup>th</sup> -18<sup>th</sup> January 2020 held at Dayananda Sagar College of Engineering, Bengaluru.

### **Editorial Member for Journal Review:**

1. **SAGE Publishing :** Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science. (2021)
2. **Taylor & Francis: Advances in Materials and Processing Technologies**, England. (2022)
3. **IEEE** International Conference on AdvanceTechnologies in Intelligent Control, Environment, Computing and Communication Engineering. (2022)
4. **QTanalytics™:Journal:** Journal of Mechatronics and Machines, Journal of Mechanical, Automation and Production. (2023)

### **Research experience: 10 years (No. of projects guided)**

Name of the Organization	No. of years worked	No. of Projects Guided		No. of Doctoral students guided
		UG	PG	
P.E.S College of Engineering	10	11	03	<b>02</b> ( Registered at VTU)