Short Profile

Dr. SANGAMESH RAJOLE
Assistant Professor,
Dept. of Mechanical Engineering
School of Engineering
Central University of Karnataka
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University	**Central University of Karnataka Kalaburagi**
Personal Web Sites	https://www.mendeley.com/profiles/dr-sangamesh-rajole/ https://orcid.org/0000-0002-4200-7855 https://scholar.google.co.in/citations?user=Fz7jWisAAAAJ&hl=en

Research Interests:

- Composite materials, Mechanical and ballistic behavior of composite materials, Numerical simulation, Finite Element analysis of Structural composites, Testing of materials.

Education:

- **Ph.D.** on Title: "**Development of Sandwich Composites from Natural Materials for Bullet Proofing**" from National Institute of Technology Karnataka, Surathkal India. (Completed 2019)
- **M.Tech** in **Machine Design** form Visveswaraiah Technological University, Karnataka. (Completed 2013)
- **B.E** in **Mechanical Engineering** from Visveswaraiah Technological University, Karnataka (Completed 2011)

Profession experience: - 8 year

- Worked as Assistant professor in Nagarjuna College of Engineering Technology, Bangalore (August-2013 to July 2014)
- Worked as Research Scholar in National Institute of Technology Karnataka, Surathkal (July 2014 to July 2019)
- Worked as Assistant Lecturer in National Institute of Technology Karnataka, Surathkal (July 2019 to Dec 2019)
- Working as Assistant Professor in Central University Karnataka (Dec 2019 to till date)

Awards and achievements:

- Received "**Young Scientist" DST SERB funding** for attending 2018 9th International Conference on Manufacturing Science and Technology (ICMST 2018) at **University of Malaya Malaysia** under the scheme for Ph.D. scholars

- Received "**Young Scientist" CSIR funding** for attending 2018 3rd International Conference on Composite Materials and Material Engineering (ICCMME2018) at **NUS Singapore** under scheme

for Ph.D. scholars (http://csirhrdg.res.in/tg_sm_result.htm) (http://csirhrdg.res.in/tgr_December2017.pdf)

- Received "**Young Achiever Award 2020**" From Institute of Scholars (INSC)
- Received **"Young Scientist"** award from DK international Research foundation on 29th Dec 2019

- **Best paper** award to **Sangamesh,** Ravishankar K. S., S M Kulkarni in International Conference on Materials and Manufacturing Engineering (IMME17) held at NIT Trichy, during 10-12, March, 2017.(http://www.nitk.ac.in/news-announcments-tenders/best-paper-award-sangmesh-ravishankar-k-s-s-m-kulkarni-imme17)
- Best paper award to **Sangamesh** and K B Girish at "National Conference On emerging Trends In Engineering And Technology", "Sapthagiri College of Engineering Bangalore"(11th may 2013)

GRANTS:

Received Grants from HEFA -19 lakh for the project titled "Design and Development of cladding composites for Indian military using natural materials"-**Completed**

Reviewer for journal:

- **Reviewer** for the journal *"***Journal of Composites Science"** is an international open access journal on the science and technology of composites published quarterly online by MDPI
- **Reviewer** for the journal *"***International Journal of Crashworthiness"** is an international journal on the science and technology in automobile, defence system published online by **Taylor & Francis**
- **Reviewer** for the journal "**International Journal of Materials Engineering Innovation (IJMATEI)"** is an international journal on the science and technology of materials published online by **inderscience**
- **Reviewer** for the journal "**Emerging Materials Research (EMR)"** is an international journal on the science and technology of materials published online by **Institute of civil Engineers (ICE publishing)**
- **Reviewer** for the journal **"Material Science Research India"** Published by Oriental Scientific Publishing Company
- **Reviewer** for the journal **"International Journal of Automotive and Mechanical Engineering (IJAME)** is an international journal ***is aimed to disseminate original research in all fields of Automotive and Mechanical Engineering*** published online by **University of Malaysia Pahang**

Reviewer for the conferences:

- **Reviewer** for the conference "IEEE POWERCON2020"
- **Reviewer** for the "Global Conference on Advanced Smart and Sustainable Technologies in Engineering (GCASSTE-2020)

Conference organizing committee member:

- International Technical Committee member for the conference "**2018 4th International Conference on Applied Materials and Manufacturing Technology"** will be held in Nanchang, China during May 25-27, 2018. ICAMMT 2018 is hosted by Wuhan University of Science, Organized by AEIC Academic Exchange Information Centre (**http://www.icammt.net/static/news/2017/1207/313.html**)

- International Technical Committee member for the conference "**2018 3rd International Seminar on Advances in Materials Science and Engineering" (ISAMSE 2018). ISAMSE 2018 will be held on June 22-24, 2018, Singapore (http://www.isamse.org/a/News/2018/0316/15.html)**

- International Technical Committee member for "International association of advance materials" (IAAM) committee publishes two pear reviewed journals. Advance engineering latters and advance materials proceedings (**https://www.iaamonline.org/rajolesangmesh**)

- Organising committee member for the **"**International Conference on Innovations and Emerging Trends in Mechanical Engineering 13th June 2014 ***http://nagarjunaeducation.com/ncet/news/wp-content/uploads/2014/04/International-Conference.pdf***

Recent Journal Publications:

Citation indices	**All**	**Since 2021**
Citation	**195**	**189**
h-index	**7**	**7**
I-10 Index	**7**	**6**
Total no of papers – 28		

For More Information visit my Profile : https://orcid.org/0000-0002-4200-7855

1. Kanakannavar S, Biradar S, Hiremath S, **Sangamesh Rajole** et al. Mode-I fracture behaviour of aramid/glass-epoxy interply hybrid composites. Plastics, Rubber and Composites. 2025;54(5):166-179. doi:10.1177/14658011251330391
2. **Sangamesh, R**., Hiremath, S., Biradar, S. et al. Effect of alkaline treatment on mechanical properties of natural fiber-reinforced composite. J Mech Sci Technol 38, 6597–6605 (2024). https://doi.org/10.1007/s12206-024-1117-6
3. Gowda, D., Bhat, R., & **Rajole, Sangamesh**. (2022). An Optimization Study on Material Selection for FRPCs in Multi Layered Armour System Through Hybrid MCDM Approach and Numerical Simulation. MATERIALE PLASTICE, 59(3), 205-231. (Scopus indexed) (Impact factor: 0.78) (Q3) https://doi.org/10.37358/MP.22.3.5616
4. **Sangamesh, R**., Twinkle, R., Chiniwar, D. S., Vishwanatha, H. M., Sondar, P., & Hiremath, S. (2022). Modelling of single and multi-port manifolds and studying the influence of structural and thermal behaviour on exhaust manifolds used in automotive applications. International Journal on Interactive Design and Manufacturing (IJIDeM), 1-10. (Scopus indexed) (Impact factor: 2.64) (Q2) https://link.springer.com/article/10.1007/s12008-022-01171-x
5. Shivashankar, H., **Rajole, Sangamesh.,** Sondar, P., Mathias, K. A., & Kulkarni, S. M. (2022). Physico-mechanical behavior of carbon black-infused polymer composite. *Bulletin of Materials Science*, *45*(1), 1-8.

https://doi.org/10.1007/s12034-021-02586-0 (Q1)

6. Kivade, S. B., Gunge, A., Nagamadhu, M., & **Rajole, Sangamesh.** (2021). "Mechanical and dynamic mechanical behavior of acetylation-treated plain woven banana reinforced biodegradable composites". *Advanced Composites and Hybrid Materials*, 1-15.

https://link.springer.com/article/10.1007%2Fs42114-021-00247-8 (Q1)

7. **Sangamesh Rajole,** Ravishankar K.S., S M Kulkarni. "Performance study of jute-epoxy composites/sandwiches under normal ballistic impact" Defence Technology, Vol. 16, pp 947-955, 2020, **Elsevier publishing.**

https://doi.org/10.1016/j.dt.2019.11.011 (Q1)

8. Mohiuddin, B., Kivade, S. B., & **Rajole, Sangamesh.** (2021). "Fault Detection and Health Condition Analysis of Single Stage Gear Box System". In *Fatigue, Durability, and Fracture Mechanics* (pp. 589-598). Springer, Singapore.

https://link.springer.com/chapter/10.1007%2F978-981-15-4779-9_40

9. **Rajole, Sangamesh**., Sondar, P. R., Hiremath, S., & Ravishankar, K. S. (2021). "Failure Analysis of Industrial Discharge Hopper Pipe". *Journal of Modern Manufacturing Systems and Technology*, *5*(1), 1-6.

https://journal.ump.edu.my/jmmst/article/view/5149

10. Hiremath, S., Sangappa, V., **Rajole, Sangamesh.,** & Kulkarni, S. (2020). "Numerical Analysis of Polymer Composites for Actuation". *Revue des Composites et des Matériaux Avancés*, *30*.

https://www.iieta.org/journals/rcma/paper/10.18280/rcma.305-603

11. Shivashankar, H., **Sangamesh, R.,** & Kulkarni, S. M. (2020). "Analysis of coefficient of thermal expansion in carbon black filled PDMS composite". In *Materials Science Forum* (Vol. 978, pp. 237-244). Trans Tech Publications Ltd.

https://doi.org/10.4028/www.scientific.net/MSF.978.237

12. **Sangamesh R**., Shivashankar H., Ravishankar K.S., S.M. Kulkarni, "Study on Ballistic Characteristics of Glass-Epoxy-Rubber Sandwiches" Materials Science Forum, ISSN: 1662-9752, Vol. 978, pp 245-249, 2020-02-19(online), **Trans Tech Publications Ltd, Switzerland**(Scopus indexed)

https://www.scientific.net/Paper/Preview/544991

13. **Sangamesh, Rajole**, Hiremath Shivashankar, K. S. Ravishankar, and S. M. Kulkarni. "Ballistic performance study of kevlar29 fibre reinforced polyester composite." In *Solid State Phenomena*, vol. 287, pp. 49-53. Trans Tech Publications Ltd, 2019.

https://doi.org/10.4028/www.scientific.net/SSP.287.49

14. **Rajole, Sangamesh,** Shivashankar Hiremath, Ravishankar K. Shankaranarayana Bhat, and Satyabodh M. Kulkarni. "Finite Element Analysis of Natural Rubber, Glass-epoxy and Glass-rubber-epoxy Composites." **Advances in Modelling and Analysis A-** Vol. 56, No. 1, March, 2019, pp. 9-12

http://www.iieta.org/journals/ama_a/paper/10.18280/ama_a.560102

15. Shivashankar, H., **R. Sangamesh**, and S. M. Kulkarni. "Processing and investigation of mechanical characteristics on the polydimethylsiloxane/carbon black composites." *Materials Research Express* 6, no. 10 (2019): 105340.
https://iopscience.iop.org/article/10.1088/2053-1591/ab3b7e

16. Shivashankar H., **Sangamesh R**., S.M. Kulkarni, "Analysis of Coefficient of Thermal Expansion in Carbon Black Filled PDMS Composite" Materials Science Forum, ISSN: 1662-9752, Vol. 978, pp 237-244, 2020-02-19 (online), **Trans Tech Publications Ltd, Switzerland**(Scopus indexed)

https://doi.org/10.4028/www.scientific.net/MSF.978.237

17. Srikumar Biradar, Sharnappa Joladarashi, **Sangamesh Rajole,** Shivashankar Hiremath[1,d)], *and* S. M. Kulkarni "Comparative study on filament wounded and laminated GFRP composites for tensile characterization" AIP Conference Proceedings **2057**, 020057 (2019); **AIP publishing.** (Scopus indexed)

https://doi.org/10.1063/1.5085628.

18. Shivashankar, H., **Sangamesh, R**. and Kulkarni, S.M., 2019, April. Optimization of Bilayer Actuator Based on Carbon Black/Polymer Composites. In *IOP Conference Series: Materials Science and Engineering* (Vol. 522, No. 1, p. 012007). IOP Publishing.
https://iopscience.iop.org/article/10.1088/1757-899X/522/1/012007

19. Gunge, Amaresh, Sangshetty Bheemanna Kivade, Mahadevappa Nagamadhu, and **Sangamesh Rajole.** "Mechanical properties of chemically treated woven banana/polyvinyl alcohol composites." *Emerging Materials Research* 8, no. 4 (2019): 638-643.
https://doi.org/10.1680/jemmr.18.00028

20. Sajjan, Sudheer S., Mithun V. Kulkarni, S. Ramesh, P. C. Sharath, **Rajole Sangamesh**, Aravind Kumar, and Rangappa Rajesh. "Evaluation of microstructure and mechanical properties of multi axial forged lm2 aluminum alloy." In *Materials Science Forum*, vol. 969, pp. 297-302. Trans Tech Publications Ltd, 2019.

https://doi.org/10.4028/www.scientific.net/MSF.969.297

21. **Sangamesh Rajole,** Ravishankar K.S., S M Kulkarni. "Study on Ballistic Energy Absorption Capability of Glass-Epoxy and Jute-Epoxy-Rubber Sandwich Composites", Materials Science Forum, Vol. 928, pp. 14-19, 2018.. **Trans Tech publishing.** (Scopus indexed)
https://doi.org/10.4028/www.scientific.net/MSF.928.14

22. **Sangamesh Rajole,** Shivashankar H, Ravishankar K.S., S.M.Kulkarni "Ballistic performance study of Kevlar29 Fibre Reinforced Polyester Composite" solid state phenomena, Vol. 287, pp 49-53, doi:10.4028/www.scientific.net/SSP.287.49. **Trans Tech publishing.** (Scopus indexed)
https://doi.org/10.4028/www.scientific.net/SSP.287.49

23. **Sangamesh**, K S Ravishankar, S M Kulkarni (2017) "Synthesis and comparison of mechanical behavior of fly ash-epoxy and silica fumes-epoxy composite" IOP Conf. Ser.: Mater. Sci. Eng. **225** 012299. doi:10.1088/1757-899X/225/1/012299. **IOP Publishing.** (CPCI-S & Scopus indexed)
https://iopscience.iop.org/article/10.1088/1757-899X/225/1/012299/meta

24. **Sangamesh Rajole,** Naveen Kumar, K. S. Ravishankar, and S. M. Kulkarni. "Mechanical Characterization and Finite Element Analysis of Jute-Epoxy Composite." In MATEC Web of

Conferences, vol. 144, p. 02014. EDP Sciences, 2018. https://doi.org/ 10.1051/matecconf/201714402014. **EDP Sciences Publishing**. (ISI & Scopus indexed)
https://doi.org/10.1051/matecconf/201814402014

25. **Sangamesh,** Ravishankar, K. S., and S. M. Kulkarni. "Ballistic Impact Study on Jute-Epoxy and Natural Rubber Sandwich Composites." Materials Today: Proceedings 5, no. 2 (2018): 6916-6923. **Elsevier publishing.** (Scopus indexed)

https://doi.org/10.1016/j.matpr.2017.11.353

26. **Sangamesh**, Ravishankar K.S., S M Kulkarni "Impact Analysis of Natural Fiber and Synthetic Fiber Reinforced Polymer Composite" AIP Conference Proceedings **1953**, 130003 may (2018); https://doi.org/10.1063/1.5033147 **AIP publishing.** (Scopus indexed)

https://aip.scitation.org/doi/abs/10.1063/1.5033147

27. Gowthama, K., Somashekar, H. M., Suresha, B., Rajole, S., & Ravindran, N. (2022). Optimization of abrasive water jet machining process parameters of Al 7071 using design of experiments. *Materials Today: Proceedings*, *52*, 2102-2108.

https://doi.org/10.1016/j.matpr.2021.12.380

28. Ravi, Y. V., Kapilan, N., Rajole, S., Balaji, Y. S., Reddy, N. V. K., & Venkatesha, B. K. (2022). Damage resistance evaluation of E-glass and hybrid hemp-banana natural fiber composite helmet using drop weight impact test. *Materials Today: Proceedings*, *54*, 330-335.

https://doi.org/10.1016/j.matpr.2021.09.213

Conferences:

- ME@75 Research Frontiers Conference at **IISC Bengaluru** (From 29th June to 1st July 2022)
- 2018 3rd International Conference on Composite Materials and Material Engineering **[ICCMME2018]**, "**National University of Singapore**" Shaw Foundation Alumni House (26-28, Jan 2018)
- 2018 9th International Conference on Manufacturing Science and Technology **(ICMST 2018) " University of Malaya Malaysia"** Faculty of Engineering, University of Malaya (From Aug 11 to 13, 2018)
- The International Symposium on "Light weighting for Defence and Transportation" **[NMD-ATM 2017],** "**BITS Pilani**", KK Birla Goa campus from 11th to 14th November.
- The International Symposium on "Advances in Materials Science" **[NMD-ATM 2018],** "**IIM Jamshedpur, Kolkata, Kharagpur chapters and Tata Steel**", J.W Marriot Kolkata, from 14th to 16th November.
- International Conference on Processing and Characterization of Materials (ICPCM2018) held at **National Institute of Technology, Rourkela, Odisha**, India during 10-12, March, 2017.
- International Conference on Materials and Manufacturing Engineering (IMME17) held at **National Institute of Technology Trichy**, India during 6-8, December, 2018.
- International Conference on Materials, Alloys and Experimental Mechanics [**ICMAEM- 2017**], July 3rd & 4th 2017. Narsimha reddy engineering college, Maisammaguda (V), Kompally, Secunderabad, Telangana, India.
- International Conference on Research in Mechanical Engineering Sciences [**RiMES-2017**], December 21-23, 2017. **Manipal Institute of Technology, Manipal**, Karnataka, India.
- International Conference on condensed matter and applied physics **[ICCINDIA2017],** Nov 24-25, 2017. Govt. Engineering college Bikaner, India.

- National conference on recent innovation in mechanical engineering, "Shridevi Institute of Engineering and Technology Tumakur" (15th April 2013)
- National Conference On emerging Trends In Engineering And Technology, "Sapthagiri College of Engineering Bangalore"(11th may 2013)

Invited Talks:

- "Numerical analysis of structural polymer composites" By Sangamesh R. at BMS Institute of Technology Bangalore on 8th August 2018.
- "Carrier advancement Through Professional Development & Personal Excellence" at Bhemanna Khandre Institute of Technology Bhalki on 7th March 2020.
- "Composites for bullet Proofing" at Kamala Institute of Technology and Science" on 14th August 2020.

Workshop attended:

- Residual Stress and Advanced NDE Techniques for Structural Integrity Assessment: Key Challenges & Remedies" during 16-17 May2018, at National Institute of Advanced Studies, (IISC) Bangalore.
- Design innovation workshop and interface (DIWI-2018) during 19-23 Nov 2018 at NITK Surathkal.
- Material Processing and Degradation, 17-18, Oct 2016 organized by Dept. of MME, NITK Surathkal.
- Material Charecterisation 12-15 July 2016 at IIT Madras, Chennai.
- Residual Stresses Key Challenges & Remedies"21-22 Jan 2016 at CPRI Bengaluru.
- Engineering Failure Analysis Aug, 1-2, 2014, organized by Dept. of MME, NITK Surathkal.

Administrative roles @CUK:

- Acted as Liaison Officer –Equal opportunity cell
- Acting as Nodal officer for DACE Centre -UPSC Coaching
- Acting as Coordinator for Biofuel Research Centre @CUK
- Acting as First Year Coordinator for School of Engineering
- Acting as Hostel warden

Date: 26/10/2026

Place: CUK Kalaburagi **SANGAMESH**