

# Short Profile

**Dr. SANGAMESH**  
Assistant Professor,  
Dept. of Mechanical Engineering  
School of Engineering  
Central University of Karnataka  
Kadaganchi, Aland Road, Kalaburagi Dist. - 585 367  
Email-ID: sangameshrajole@cuk.ac.in, [rajolesangmesh@gmail.com](mailto:rajolesangmesh@gmail.com)  
Phone Number : 9036618342



University **Central University of Karnataka Kalaburgi**

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, 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** from Visveswaraiiah Technological University, Karnataka. (Completed 2013) (FIRST CLASS WITH DISTINCTION )
- **B.E In Mechanical Engineering** From Visveswaraiiah Technological University, Karnataka (Completed 2011) (FIRST CLASS)

## Profession experience: - 6 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)

## Patents:

Filing of patent is under process, Permission to file the patent is granted form host institute based on the Ph.D. work. Patent attorney is drafting the file.

#### 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/tg_sm_result.htm)) ([http://csirhrdg.res.in/tgr\\_December2017.pdf](http://csirhrdg.res.in/tgr_December2017.pdf))
- **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-announcements-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”(11<sup>th</sup> may 2013)

#### 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 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 “**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**

#### 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 peer reviewed journals. Advance engineering matters and advance materials proceedings (<https://www.iaamonline.org/rajolesangmesh>)
- Organising committee member for the “International Conference on Innovations and Emerging Trends in Mechanical Engineering 13<sup>th</sup> June 2014  
<http://nagarjunaeducation.com/ncet/news/wp-content/uploads/2014/04/International-Conference.pdf>

### Recent Journal Publications:

Citation indices	All	Since 2017
Citation	10	10
h-index	2	2
<b>Total no of papers - 15</b>		

- **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>
- **Sangamesh Rajole**, Ravishankar K.S., S M Kulkarni. “Performance study of jute-epoxy composites/sandwiches under normal ballistic impact” Defence Technology, Nov.2019, **Elsevier publishing.** (Scopus indexed)  
<https://doi.org/10.1016/j.dt.2019.11.011>
- **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>
- **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>
- **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](http://www.iieta.org/journals/ama_a/paper/10.18280/ama_a.560102)

- **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>
- **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/mateconf/201714402014>. **EDP Sciences Publishing**. (ISI & Scopus indexed)  
<https://doi.org/10.1051/mateconf/201814402014>
- **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>
- **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>
- Shivashankar, H., **Sangamesh, R.**, & Kulkarni, S. M. (2019). Processing and investigation of mechanical characteristics on the polydimethylsiloxane/carbon black composites. *Materials Research Express*, 6(10), 105340, <https://doi.org/10.1088/2053-1591/ab3b7e> **IOP Publishing** (Scopus indexed) <https://iopscience.iop.org/article/10.1088/2053-1591/ab3b7e>
- 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://www.scientific.net/Paper/Preview/544808>
- Srikumar Biradar, Sharnappa Joladarashi, **Sangamesh Rajole**, Shivashankar Hiremath<sup>1,d)</sup>, 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>.
- Shivashankar Hiremath, **Sangamesh R** and Satyabodh Kulkarni, "Optimization of Bilayer Actuator Based on Carbon Black/Polymer Composites" *IOP Conf. Ser.: Materials Science and engineering* (2019, April). (Vol. 522, No. 1, p. 012007). **IOP Publishing**. (CPCI-S & Scopus indexed)  
<https://iopscience.iop.org/article/10.1088/1757-899X/522/1/012007>
- Amaresh, S.B.Kivade, Nagamadhu M, **Sangamesh Rajole\*** "Mechanical properties of chemical treated Woven Banana/Polyvinyl Alcohol Composites" published in **Emerging Materials**

**Research, ICE publishing.** (Scopus indexed) <https://doi.org/10.1680/jemmr.18.00028>

- Sudheer S Sajjan, Mithun V Kulkarni ,Ramesh S , Sharath P C, **Sangamesh R**, Aravind Kumar, Rajesh R (2019). “Evaluation of Microstructure and Mechanical Properties of Multi axial Forged LM2 Aluminum Alloy” Materials Science Forum, (Vol. 969, pp. 297-302). **Trans Tech publishing.** ( Scopus indexed) <https://doi.org/10.4028/www.scientific.net/MSF.969.297>
- Shivashankar H, Vidya Shree S<sup>2</sup>, **Sangamesh R**, S.M. Kulkarni “Numerical Analysis of Polymer Composites for Actuation” -Accepted for publishing in- Revue des Composites et des Matériaux Avancés ( Scopus indexed)
- Sudheer S Sajjan , Mithun V Kulkarni, Ramesh S, Sharath P C, Vasantha Kumar, **Sangamesh Rajole** “Effect of Mechanical properties on Multi Axially Forged LM4 Aluminium Alloy” Materials Today: Proceedings **Elsevier publishing.** (Accepted for publication, Scopus indexed)
- Naman Kumar Bajpai, **Sangamesh Rajole\***, Pavankumar Sondar, K S Ravishankar, “Effect of Beach Sand on Mechanical Properties of Polymer Composites” Under Review International journal of materials engineering innovation, **inderscience publishing.** (Scopus indexed)
- Baquer Mohiuddin, S.B Kivade, **Sangamesh Rajole\*** “A Review on Damage Detection and Vibration Analysis Technique for Gear Box” **Trans Tech publishing.** (Accepted for publication, Scopus indexed)
- Amaresh , S.B.Kivade , Nagamadhu M **Sangamesh Rajole\*** “Dynamic Mechanical Analysis of Potassium permanganate Treated Plain Woven Banana Fabric Biodegradable Composites” Communicated to Composite communications,(Under Review) **Elsevier publishing.**
- Baswaraj, N Kapilan, **Sangamesh** “Static and model analysis of drive shaft using steel and high performance polymer composites comparison” [www.ijret.org](http://www.ijret.org), International Journal of Scientific Research Engineering & Technology (IJSRET), ISSN 2278 –0882 Volume 5, Issue 4, April 2016.(<http://www.ijret.org/pdf/121499.pdf>)

#### Conference attended:

- 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” (15<sup>th</sup> April 2013)
- National Conference On emerging Trends In Engineering And Technology, “Sapthagiri College of Engineering Bangalore”(11<sup>th</sup> may 2013)

#### **Invited Talks:**

- “Numerical analysis of structural polymer composites” By Sangamesh R. at BMS Institute of Technology Bangalore on 8<sup>th</sup> August 2018.

<https://alumni.bmsit.ac.in/events/event/43045.dz>

#### **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.

**Date:** 20/03/2020

**Place:** CUK Kalaburgi

**SANGAMESH**