Dr. U. S. Mallik

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Education

	Degree	Year	Institute	Specialization
1	B.E	1987	S.I.T, Tumkur	Mechanical Engineering
2	M.E	1990	U.V.C.E, Bangalore	Metal Casting Sciences and Engineering
3	Ph.D	2007	I.I.T. Madras, Chennai	Advanced Materials

Professional Experience

	Date (from-to)	Designation	Organization
1	From 2007	Professor	S.I.T, Tumkur
2	2002 to 2007	Asso. Professor	S.I.T, Tumkur
3	1997 to 2002	Senior Lecturer	S.I.T, Tumkur
4	1989 to 1997	Lecturer	S.I.T, Tumkur

Positions held

1	S.I.T, Tumkur	Dean (Academic)	2007 to 2010	3-Years
2	-do-	Head of Department	2010 to 2013	3-Years
3	-do-	Co-ordinator IQAC	2018 to 2023	5-Years
4	-do-	Head of Department	2023 to May 2025 Superannuated	2-Years
5	-do-	Professor Emeritus	From June 2025	Present

- Life Member of Indian Society of Technical Education (M.I.S.T.E).
- Life Member of Indian Institute of Metals (M.I.I.M).
- Life Member of Institution of Smart Structures and Systems (M.I.S.S.S).
- Fellow of Institution of Engineers India (F.I.E).

- Life Member for Society for failure Analysis (M.S.F.A)

1.

Affiliations of Professional organizations

Awards and Honors

Hon. Secretary (2017 to 2019), Institution of Engineers (India) Tumkur Center
Awarded engineer of the Year-2020 by Institution of Engineers (India) Tumkur Center
Recognized Reviewer Award, Journal of Alloys and Compounds, Elsevier Publications

Courses Taught

Undergraduate Courses

- Computer Aided Engineering Drawing
- Materials Science and Engineering
- Engineering Materials
- Metal Forming Processes
- Advanced Engineering Materials
- Measurements and Metrology
- Manufacturing Process-I, II, III
- Machine Drawing
- Production and Operations Management
- Mechanical Engineering Science
- Production Technology
- Foundry Technology
- Advanced Processing of Materials
- Strength of Materials
- Engineering Mechanics
- Smart Materials and MEMS

Postgraduate Courses

- Advanced Engineering Materials
- Experimental Methods for Engineers
- Advanced Processing of Materials
- Metal Forming Processes

Research Guidance

Sl. no	Name of the Scholar	Title	Year of completion
1	Dr. S. Sathish	Synthesis and Characterization of Cu-Zn-Ni Shape Memory Alloys	2014
2	Dr. T. Lokesh	Synthesis and Characterization of Ultra Fine Refined Al6061-SiC-Gr Hybrid Composite using ECAP process	2018
3	Dr. S. Prashanth	Synthesis and Characterization of Cu-Al-Be Shape Memory Alloys	2016
4	Dr. A. G. Shivasiddaramaiah	Synthesis and Characterization of Cu-Al-Be-Mn SMAs for Superelastic and Damping behavior	2017

5	Dr. M. K. Ranganatha Swamy	Synthesis and Characterization of Shape Memory Polymers	2022
6	Dr. C. Poornima	Synthesis and Characterization of Polypropylene Reinforced with Basalt Fibre and Ethylene Propylene Diene Monomer Hybrid Composite and Optimization of Abrasive Water Jet Cutting Process Parameters	2023
7	Dr. N. Praveen	Synthesis of Cu-Al-Mn Ternary Shape Memory Alloys and Optimization of Machinability Parameters for CNC Machining and Wire EDM	2024
8	K. M. Mamatha	Evaluation of Biocompatibility of Cu-Al-Mn Shape Memory Alloys for In-vitro & In-vivo Applications	Pursuing
9	N. Lokesh	Synthesis and Evaluation of Mechanical properties, Tribological properties and Fracture Toughness of Cu-Zn-Al Shape Memory Alloys	Pursuing

Research Areas

- Shape Memory Alloys
- Smart Materials
- Structure Property Correlations
- Bio-Materials
- Shape Memory Polymers
- Corrosion of Materials

Sponsored Projects

Completed Projects:

1. Title: Corrosion Behavior of Turbine Blade Materials
   Funding Agency: GTRE, DRDO, Ministry of Defence, Bangalore
   Amount: 9.35 Lakhs
   Duration: 02 Years
   Role: Principal Investigator
2. Title: Synthesis and Characterization of Cu-Al-Mn shape memory alloys for its Damping characteristics in Superelastic range
   Funding Agency: VTU, Belagavi
   Amount: 12.00 Lakhs
   Duration: 02 Years
   Role: Principal Investigator
3. Title: Setting up of the state of the art material characterization lab for M.Tech(MSE)

Funding Agency: K-FIST, Govt of Karnataka
Amount: 20.00 Lakhs
Duration: 02 Years
Role: Principal Investigator

4. Title: High Temperature Superconducting Energy Storage technique for use in Distributed Generation System (Flywheel Energy Storage System)
   Funding Agency: CPRI, Bangalore
   Amount: 9.35 Lakhs
   Duration: 02 Years
   Role: Principal Investigator
5. Title: Modernization and Removal of Obsolescence Scheme [MODROBS]
   Funding Agency: AICTE, New Delhi
   Amount: 8.00 Lakhs
   Duration: 01 Year
   Role: Principal Investigator
6. Title: To develop the Innovative Product Solutions for common problems faced by common man. "Strengthening the R and D Centre in the Department of Mechanical Engineering"
   Funding Agency: KCTU, Govt. of Karnataka, Bangalore
   Amount: 76.00 Lakhs
   Duration: 02 Years
   Role: Principal Investigator
7. Title: Idea Development, Evaluation and Application Lab. [IDEA Lab.]
   Funding Agency: AICTE, New Delhi
   Amount: 109.00 Lakhs
   Duration: 03 Years
   Role: Co-Ordinator

Publications

Journals

- N Praveen , **U S Mallik,** et. al.., **"Effect of CNC Turning Parameters on MRR, Cutting Force and Surface Roughness for Ternary Shape Memory Alloys (SMAs)",** Journal of Results in Engineering, Available online 10 April 2025, Elsevier Publications, https://doi.org/10.1016/j.rineng.2025.104876.
- Mamatha, K.M.**, Mallik, U.S.,** Koti, V.**,** Murthy, K.V.S.**,** Koppad, P.G.**, "Effect of Variations in Mn Content on Mechanical and Corrosion Characteristics of Cu-Al-Mn Shape Memory Alloys",** FME Transactions**,** 2024, 52(3), pp. 402–410, ISSN 14512092, DOI:10.5937/fme2403402M
- Praveen, N., **Mallik, U.S**. et. al.,, **"Effect of pulse time (Ton), pause time (Toff), peak current (Ip) on MRR and surface roughness of Cu–Al–Mn ternary shape**

memory alloy using wire EDM", *Journal of Materials Research and Technology,* 2024, 30, pp. 1843–1851

- Praveen, N., **Mallik, U.S**., Shivasiddaramaiah, A.G., Prasad, C.D., **"Machinability Study of Cu-Al-Mn Shape Memory Alloys using Taguchi Method",** *Journal of The Institution of Engineers (India): Series D,* 10.1007/s40033-023-00629-w, 2024
- N Praveen, **US Mallik**, AG Shivasiddaramaiah, N Nagabhushana, C Durga Prasad, Shanthala Kollur, **"Effect of CNC End Milling Parameters on Cu–Al–Mn Ternary Shape Memory Alloys Using Taguchi Method",** Journal of The Institution of Engineers (India): Series D, 2023/11/20, 1-11, https://doi.org/10.1007/s40033-023-00579-3.
- AG Shivasiddaramaiah, L Shivaramu, **US Mallik**, R Suresh, **"Effect of Aging Temperature on Microstructure, Hardness and Thermal Property of AA7085 Alloy",** Journal of The Institution of Engineers (India): Series D, **105 (3), 1857-1863,** Springer Publications, 2023/10/19, 1-7, https://doi.org/10.1007/s40033-023-00566-8.
- N. Praveen, **U. S. Mallik**, A. G. Shivasiddaramaih, R. Suresh, C. Durga Prasad, L. Shivaramu, **"Synthesis and Wire EDM Characteristics of Cu–Al–Mn Ternary Shape Memory Alloys Using Taguchi Method",** J. Inst. Eng. India Ser. D, https://doi.org/10.1007/s40033-023-00501-x, , Published Online: 5th June 2023.
- N Praveen, **U S Mallik**, A G Shivasiddaramaiah, R Suresh, L Shivaramu, C Durga Prasad and Manish Gupta, **"Design and Analysis of Shape Memory Alloys using Optimization Techniques"**, Journal of Advances in Materials and Processing Technologies, Taylor & Francis Publications, 4 May 2023, https://doi.org/10.1080/2374068X.2023.2208021, pp 01-13
- Channaveeradevaru Poornima, **Mallik Uthamballi Shivanna**, Srinivas Sathyanarayana, **"Influence of basalt fiber and maleic anhydride on the mechanical and thermal properties of polypropylene",** Journal of Polymer Composites, Wiley International Publishers, Volume44, Issue1, January 2023, First published: 06 September 2022, https://doi.org/10.1002/pc.27026, Pages 57-68.
- CPoornima, **US Mallik** and R Suresh, **"Thermal and mechanical characterization of polypropylene/basalt fiber/ethylene propylene diene monomer rubber hybrid composite",** Mater. Res. Express 10 (2023) 025302, https://doi.org/10.1088/2053-1591/acb63f, pp01-11.
- Lokesh N, **U S Mallik**, Shivasiddaramaiaha A G, Mohith T N and Praveen N, **"Characterization and Evaluation of Shape Memory Effect of Cu-Zn-Al Shape Memory Alloy",** Print ISSN : 0022-2755, Journal of Mines, Metals and Fuels Contents available at: www.informaticsjournals.com/index.php/jmmf, 70(8A): 1-479; 2022. DOI: 10.18311/jmmf/2022/31993, pp324-331.
- N Praveen, **U S Mallik**, A. G. Shivasiddaramaiah, **"Study on Effect of Process Parameters on Kerf Width using Wire Electrical Discharge Machining of Cu-Al-Mn Shape Memory Alloys",** International Journal of Scientific Research in Science, Engineering and Technology, Print ISSN: 2395-1990 | Online ISSN

: 2394-4099 (www.ijsrset.com), Volume 9, Issue 9 - Published : March 15, 2022, pp790-797.

- Ranganatha Swamy MK, **U S Mallikarjun** and V Udayakumar, **"Cyclic Thermomechanical Analysis of Polyethylene Glycol Based Shape Memory Polymers",** Journal of Mines, Metals and Fuels, 70(8A): 1-479; 2022. DOI: 10.18311/jmmf/2022/31988, pp 282-289.
- N. Praveen, **U.S. Mallik** and A.G. Shivasiddaramaiah, **"Analysis of cutting force, feed force and surface roughness of Cu-Al-Mn shape memory alloys under CNC turning",** Int. J. Machining and Machinability of Materials, Vol. 24, No. 6, 2022, pp 453-465
- Arunabha Majumder, Vybhavi Shivakumar, A.G. Shivasiddaramaiah, C. Shashishekar, **U.S. Mallikarjuna**, K.B. Roopa, **"Synthesis and Evaluation of Biocompatibility of Cu-Al-Mn Shape Memory Alloy",** Materials Science Forum, ISSN: 1662-9752, Vol. 969, pp 380-385, © 2019 Trans Tech Publications Ltd, SwitzerlandOnline: 2019-08-30, https://doi.org/10.4028/www.scientific.net/MSF.969.380, ***ISSN***: ***1662-9752***
- T. Lokesh and **U. S. Mallik**, **"Effect of Equal Channel Angular Pressing on the Microstructure and Mechanical Properties of Hybrid Metal Matrix Composites",** Indian Journal of Science and Technology, Vol 9(35), DOI: 10.17485/ijst/2016/v9i35/88443, September 2016.
- T Lokesh and **U S Mallik**, **"Effect of Equal Channel Angular Pressing on the Microstructure and Mechanical Properties of Al6061-SiCp Composites",** Materials Science and Engineering, 149 (2016) 012119 doi:10.1088/1757-899X/149/1/012119, IOP Publications.
- A.G. Shivasiddaramaiah, **U.S. Mallik,** L. Shivaramu,S. Prashantha, **"Evaluation of shape memory effect anddamping characteristics of Cu—Al—Be—Mnshape memory alloys",** Perspectives in Science (2016) **8**, 244—246, Elsevier Publications.
- A.G. Shivasiddaramiah, **U.S. Mallik,** S. Devaraju, S. Prashantha, **"Synthesis and evaluation of ageing effect on Cu—Al—Be—Mn quaternary Shape MemoryAlloys",** Perspectives in Science (2016) **8**, 113—116,Elsevier Publications.
- Lokesh T, **U. S. Mallikarjun**, **"Mechanical and Morphological Studies of Al6061- Gr-SiC Hybrid Metal Matrix Composites",** Applied Mechanics and Materials Vols. 813-814 (2015) pp 195-202, © (2015) Trans Tech Publications, Switzerland, doi:10.4028/www.scientific.net/AMM.813-814.195.
- Prashantha S, Kalinga T, N. Manjunath Gowda, **Mallik U. S**, S. M. Shahshidhara**, "Experimental Investigation on Fracture Toughness of Cu-Al-Be Shape Memory Alloy",** American Journal of Materials Science 2015, 5(3C): 30-33 DOI: 10.5923/c.materials.201502.06
- **"EFFECT OF GRAIN REFINEMENT ON SHAPE MEMORY PROPERTIES OF Cu-Al-Mn SMAs", U.S.Mallik** and V.Sampath, *Advanced Materials Research Vol. 1101 (2015) pp 104-107, © (2015) Trans Tech Publications, Switzerland,*

doi:10.4028/www.scientific.net/AMR.1101.104

- A.G.Shivasiddaramaiah and **U.S.Mallikarjun**, "Synthesis of Cu-Al-Be-Mn Shape Memory Alloys", Journal of Procedia Materials Science 5 (2014) 242 – 247, Elsevier Publications.
- S.H.Adarsha and **U.S.Mallik**, "Effect of variation in Applied Force on Transformation Temperatures of NiTinol SMAs", Journal of Procedia Materials Science 5 (2014) 697 – 703, Elsevier Publications.
- S.Prashanth, **U.S.Mallik**, "Effect of Ageing on Shape Memory Effect and Transformation Temperature in Cu-Al-Be Shape Memory Alloy", Journal of Procedia Materials Science 5 (2014) 567 – 574, Elsevier Publications.
- Adarsh.S.H & **Dr. U.S.Mallikarjun**, "Validation of NiTinol SMA Characteristics using Finite Element Analysis and Closed Form Solutions", Journal of Advanced Materials Research, Vol.856 (2014) pp 147-152, Online available since 2013/Dec/06 at www.scientific.net,© (2014) Trans Tech Publications, Switzerland doi:10.4028/www.scientific.net/AMR.856.147.
- C. Mallikarjuna, S.M. Shashidhara, **U.S. Mallik**, "Evaluation of grain refinement and variation in mechanical properties of equal-channel angular pressed 2014 aluminum alloy", Materials & Design, *Volume 30,* Issue 5, May 2009, Pages 1638-1642.
- **U.S.Mallik** and V.Sampath, "Influence of Quaternary Alloying additions on Transformation Temperatures and Shape Memory Properties of Cu-Al-Mn Shape Memory Alloy", Journal of Alloys and Compounds, Volume 469, Issues 1-2, 5 February 2009, Pages 156-163.
- **U.S.Mallik** and V.Sampath, "Effect of Alloying on Microstructure and Shape Memory Characteristics of Cu-Al-Mn Shape Memory Alloys", Materials Science and Engineering A, Vol. 481-482, 25 May 2008, pp 680-683.
- **U.S.Mallik** and V.Sampath, "Effect of composition and ageing on damping characteristics of Cu-Al-Mn shape memory alloys", Materials Science and Engineering: A, Volume 478, Issues 1-2, 15 April 2008, Pages 48-55
- **U.S.Mallik** and V.Sampath, "Influence of aluminum and manganese concentration on the shape memory characteristics of Cu-Al-Mn shape memory alloys", Journal of Alloys and Compounds, Volume 459, Issue 1-2, 14 July 2008, Pages 142-147.

Conference Proceedings

- Bhoomika Vishwanath; Suvigya Anand Sinha; **U. S. Mallikarjun**, **"Optimization of process parameters for preparation of accelerator and brake pedal of all terrain vehicle using composite material 3D printing",** AIP Conf. Proc. 3111, 050002 (2024), https://doi.org/10.1063/5.0221487
- Swamy, M.K.R., Patil, N., **Mallik, U.S**., Udayakumar, V., **"Evaluation of Mechanical and Thermomechanical Properties of Shape Memory Polymers Reinforced with Graphite, Graphene, and CNT",** *Advances in Science, Technology and Innovation,* 2024, pp. 139–143, Published in: 2nd

International Conference on Smart Sustainable Materials and Technologies (ICSSMT 2023)
Publisher: Springer Nature Switzerland

- MK Ranganatha Swamy, U S Mallik and V Udayakumar "Synthesis and characterzation of graphite based shape memory polymers", Published by IOP Publishing Ltd, IOP Conference Series: Materials Science and Engineering, Volume 1091, 3rd International Conference on Inventive Research in Material Science and Technology (ICIRMCT 2021) 22nd-23rd January 2021, Coimbatore, India, Citation MK Ranganatha Swamy *et al* 2021 *IOP Conf. Ser.: Mater. Sci. Eng*. 1091 012073
- C.Poornima, **U.S.Mallik**, A.G.Shivasiddaramaiah, N.Pushpalakshmi, B.S.Puneeth, "Evaluation of wear characteristics of PP/MWCNT nanocomposites" Materials Today: Proceedings, Volume 46,Part7,2021,Pages 2477-2482, https://doi.org/10.1016/j.matpr.2021.01.404
- N.Praveen, **U.S.Mallik,** A.G.Shivasiddaramaiah, G.N.Narendra Reddy, "A study on material removal rate of Cu-Al-Mn shape memory alloys in WEDM", Materials Today: Proceedings, Volume 46, Part 7, 2021, Pages 2770-2774, June 2021, https://doi.org/10.1016/j.matpr.2021.02.555.
- C. Poornima, C. E. Pavan Sheshadri, and **U. S. Mallik**, **"Effect of PP and PP/MWCNT-COOH nano-composites on mechanical properties"**, AIP Conference Proceedings 2204, 040018 (2020); https://doi.org/10.1063/1.5141591, Published Online: 10 January 2020
- N. Praveen, **U. S. Mallik**, L. Shivaramu, A. G. Shivasiddaramaiah, R. Suresh, and S. Prashantha, **"Synthesis and evaluation of machining characteristics of Cu-Al-Mn ternary shape memory alloys using CNC wire electric discharge machining"**, AIP Conference Proceedings, Volume 2247, Issue 1, 10.1063/5.0003846, https://doi.org/10.1063/5.0003846, Published Online: 16 July 2020
- N. Lokesh, U. S. Mallikarjun and A. G. Shivasiddaramaiah, **"Synthesis and evaluation of shape memory effect of Cu-Al-Ni shape memory alloys",** AIP Conference Proceedings 2274, 030017 (2020); https://doi.org/10.1063/5.0022458, Volume 2274, Issue 1 > 10.1063/5.0022458
- A.G.Shivasiddaramaiah, **U. S. Mallik**, Ranjith Mahato, C.Shashishekar, Shivaramu L and Prashantha S, **"Evaluation of Biocompatibility of Cu-Al-Be-Mn Quaternary Shape Memory Alloys Using Antibacterial Test by AGARWELL Diffusion Method",** Materials Today: Proceedings , Volume 17, 2019, Pages 61-69. https://doi.org/10.1016/j.matpr.2019.06.401 , ISSN: 2214-7853
- M K Ranganatha Swamy, **U S Mallikarjun**, V Udayakumar, **"Synthesis and Characterization of Shape Memory Polymers",** IOP Conference Series: Materials Science and Engineering, 577 (2019)012095

- Prashanth S, Shivasiddaramaiah. A.G, **U S Mallikarjun**, **"Corrosion Behavior of Cu-Al-Be Based Shape memory Alloy with and without coating",** Materials Today: Proceedings, Volume17, part 1, 2019, Pages 147-154, https://doi.org/10.1016/j.matpr.2019.06.412
- A.G.Shivasiddaramaiah, **U.S.Mallikarjun**, Jeevan, S.Prashantha, **"Synthesis and Evaluation of Fracture Behavior of Cu-Al-Be-Mn Quaternary SMA",** Materials Today: Proceedings , Volume 5, Issue 11, Part 3, 2018, Pages 24457-24465.
- A.G.Shivasiddaramaiah**, U.S.Mallikarjun,** N.Praveen, S.Prashantha, C.Anupama, **"Evaluation of Bio Compatibility of Cu-Al-Be-Mn Quaternary Shape Memory Alloy",** Materials Today: Proceedings, Volume 5, Issue 11, Part 3, 2018, Pages 24799-24808.
- A.G.Shivasiddaramaiah, **U.S.Mallikarjun,** Ranjit Mahato and C Shashishekar, **"Preparation and Evaluation of ageing effect of Cu-Al-Be-Mn Shape Memory Alloys",** AIP Conference Proceedings 1943, 020081 (2018); https://doi.org/10.1063/1.5029657
- T.Lokesh and U S Mallik, **"Effect of ECAP Process on the Microstructure and Mechanical Properties of Al6061-Gr Composite",** Materials Today Proceedings, Vol 5, Issue 1, Part 3, 2018, pp 2453 – 2461.
- Lokesh T, **U. S. Mallik**, **"Dry sliding wear behavior of Al/Gr/SiC hybrid metal matrix composites by Taguchi techniques",** Materials Today: Proceedings 4 (2017) 11175–11180.
- S .Prashantha, S. M. Shashidhara, **U. S. Mallikarjun**, Shivasiddaramaiah.A.G, **"Evaluation of Shape Memory Effect and Wear Properties of Cu-Al-Be Shape Memory Alloys",** Materials Today: Proceedings 4 (2017) 10123–10127.
- A.G Shivasiddaramaiah, **U.S Mallik**, Krishnakanth C, Prashantha S, **"Evaluation of Shape Memory Effect and Wear Characteristics of Cu-Al-Be-Mn Quaternary Shape Memory Alloys",** Materials Today: Proceedings 4 (2017) 10099–10103.
- A.G Shivasiddaramaiah, **U.S Mallik**, Jayanth V,Prashanth S, **"Evaluation of Shape memory effect and Pseudo elastic effect of Cu-Al-Be-Mn Quaternary shape memory alloys",** Materials Today: Proceedings 4 (2017) 10109–10112.
- Prashantha S, Veeresha R B, S M Shashidhara, **Mallikarjun.U.S**, Shivasiddaramaiah.A.G, **"A Study on Machining Characteristics of Al6061-Sic Metal Matrix Composite through Wire – Cut Electro Discharge Machining",** Materials Today: Proceedings 4 (2017) 10779–10785.
- A.G Shivasiddaramiah, **U.S Mallik**, Krishnakanth C, Prashanth S, **"Wear Behaviour of Cu-Al-Be-Mn Shape Memory Alloys by Using Taguchi Technique",** Materials Today: Proceedings 4 (2017) 11168–11174.
- A.G Shivasiddaramiah, **U.S Mallik**, Ranjit Mahato, C. Shashishekar, **"EVALUATION OF CORROSION BEHAVIOUR OF Cu-Al-Be-Mn QUATERNARY SHAPE MEMORY ALLOYS",** Materials Today: Proceedings 4 (2017) 10971–10977.
- A.G Shivasiddaramaiah., **U.S.Mallikarjun**, Shivaramu L, Prashantha S, **"Damping Characteristics of Cu-Al-Be-Mn Quaternary Shape Memory Alloys",** Materials Today: Proceedings 4 (2017) 8948–8953.

- Shivaramu L, A.G Shivasiddaramaiah, **U.S Mallik,** Prashantha S, **"Effect Of Ageing On Damping Characteristics Of Cu-Al-Be-Mn Quaternary Shape Memory Alloys",** Materials Today: Proceedings 4 (2017) 11314–11317.
- Ranganatha Swamy MK, U S Mallikarjun, V Udayakumar, **"Shape Memory Polymers Synthesised For Controllable Switching Temperatures",** Materials Today: Proceedings 4 (2017) 4 (2017) 11148–11153.
- Shivasiddaramaiah.A.G, Ravi Das B.R.D, Prashant Singh, **U.S.Mallikarjun**, "**Study on Corrosion Behaviour of Cu-Al-Be-Mn Quaternary Shape Memory Alloy At Room Temperature",** International Journal of Applied Engineering Research, ISSN 0973-4562 Vol. 10 No.55 (2015), © Research India Publications; httpwww.ripublication.comijaer.htm
- Shivasiddaramaiah.A.G, Manjunath.S.Y , Prashant Singh, **U.S.Mallikarjun**, "**SYNTHESIS AND EVALUATION OF MECHANICAL PROPERTIES OF Cu-Al-Be-Mn QUATERNARY SHAPE MEMORY ALLOYS",** International Journal of Applied Engineering Research, ISSN 0973-4562 Vol. 10 No.55 (2015), © Research India Publications; httpwww.ripublication.comijaer.htm
- S.Satish and **Dr. U S Mallik,** "Microstructure and Shape Memory Effect of Cu-Zn-Ni Shape Memory Alloys", Journal of Minerals and Materials Characterization and Engineering, 2014, 2,71-77, published online March 2014 in Sci Res, http://www.scirp.org/journal/jmmce
- S.Satish and **Dr. U S Mallik, "**Corrosion Behavior of Cu-Zn-Ni Shape Memory Alloys", Journal of Minerals and Materials Characterization and Engineering, 2013, 1, 49-54, published online in Sci Res, http://www.scirp.org/journal/jmmce
- S.Satish and **Dr. U S Mallik,** "Corrosion behavior of Cu-Zn-Ni Shape Memory Alloys", Journal of Minerals and Materials Characterization and Engineering", 2013,1,49-54.
- K.V.Sreenivasa Rao, R.Suresh and **U.S.Mallikarjun ,** "CFD Analysis for design optimization of reverse flow type cyclone separator", International Journal of Mechanical and Production Engineering Research and Development (IJMPERD), Vol.1, Issue 2, Dec 2011, 111-124.
- Sampath.V and **Mallik U S**, "Effect of Small Additions of Boron on Shape Memory Properties and Grain Refinement of Cu-Al-Mn SMAs", TMS Annual Meeting, Vol. 3, Year 2009, 181-188.

Editorial

- Mallikarjun U.S, Materials Today: Proceedings, Editorial 2017, DOI: 10.1016/j.matpr.2017.09.038

Reviewer of Journals

- Journal of Alloys and Compounds
- Materials Today Proceedings
- Materials and Engineering A

- Journal of Minerals and Materials Characterization and Engineering
- Transactions of Indian Institute of Metals
- Journal of Applied Physics A
- Defense Science Journal
- International Journal of Mechanical Sciences

Editor/ Reviewer of Journal

- Guest Editor for Materials Today Proceedings, Elsevier Publications
- Guest Editor for International Journal of Business and Systems Research (IJBSR), Inderscience Publications.
- Reviewer for Journal of Alloys and Compounds, Materials Today, Materials Engineering A, Elsevier Publications. JMMCE, Transactions of Indian Institute of Metals, Journal of Applied Physics A, Defense Science Journal

Invited Lectures, talks and workshops

- **Organizing Committee Member** for organizing "International Symposium for Research Scholars (ISRS-2006)", December 18-20, 2006, I.I.T. Madras, Chennai.
- **Organizing Committee Member** for organizing International Conference "FDM-NMD-ATM 2005", November 12-16, 2005, I.I.T. Madras, Chennai.
- **Organized** AICTE sponsored staff development program on "Advanced Materials and Materials Processing" at SIT, Tumkur, Karnataka during 8th to 13th June, 2009.
- **Organized** VTU, Belgaum sponsored staff development program on "Materials and Processing" at SIT, Tumkur, Karnataka during 14th to 18th Dec, 2009.
- **Convener** for International Conference on **"Advanced Materials, Manufacturing, Management and Thermal Sciences [AMMMT-2010]"** organized at SIT, Tumkur, Karnataka during 18th and 19th Nov 2010.
- **Organized** AICTE sponsored staff development program on "The World Today and Tomorrow-The Energy Challenge" at SIT, Tumkur, Karnataka during 20th June to 2nd July, 2011.
- **Chairman**, Organizing Committee for International Conference on **"Advanced Materials, Manufacturing, Management and Thermal Sciences [AMMMT-2013]"** organized at SIT, Tumkur, Karnataka during 3rd and 4th May 2013.
- **Convener**, Organizing Committee for International Conference on **"Advanced Materials, Manufacturing, Management and Thermal Sciences [AMMMT-2016]"** organized at SIT, Tumkur, Karnataka during 23rd and 24th Sep 2016.
- **Guest Editor** for Materials Today, Elsevier Publications and International

Journal of Business and Systems Research (IJBSR), Inderscience Publications.

- **National Board of Accreditation** Expert Committee Member.
- **BOS and BOE member** for UVCE, Bangalore University, BMSCE, Bangalore, MCE, Hassan, SIT, Tumkur, BOS VTU nominee for Dr. AIT, Bangalore and BoS member, GCE, Krishnagiri, Tamilnadu.
- **Governing Council member** of GMIT, Davanagere and SIET, Tumkur for two years.
- **Member** of LIC Committee, VTU Belgaum.
- Chaired many sessions in International Conferences and delivered invited lectures.
- Delivered Invited Lecture on NBA accreditation and carried out mock NBA accreditation audit in few institutions.
- Member of Institute Research Committee, Industry-Institute-Interaction Committee etc.