

Curriculum-Vitae

Name : Dr. Shashikant Tukaram Vagge
Date of Birth: 1st June 1967
Highest Qualification: Ph.D. from IIT Bombay



Table 1: Academic Qualification:

Qualification	University	Marks Obtained, %	Class	Year of passing
B.E.(Metallurgy)	Savitribai Phule Pune University	63.9	I	1990
M.E. (Physical Metallurgy)	Savitribai Phule Pune University	60.0	I	1995
Ph.D. (Metallurgical Engineering)	Indian Institute of Technology Bombay, Powai, Mumbai.	NA	NA	2008

Involvement in teaching and Research

1. Teaching subject at UG & PG level: Corrosion & surface protection, Corrosion Engineering, Surface Engineering, Surface Processing of Materials, High temperature corrosion, Materials Science, Engineering Metallurgy.

2. Ph.D. Thesis, M.Tech. Dissertations & B.Tech. Projects are generally related with different coatings development and study of their corrosion/ oxidation behavior.

3. Motivating students to participate in conferences/seminars & pursue higher studies.

Research Area:

Corrosion and Corrosion prevention, Metallic and nonmetallic Coatings, Surface engineering.

Table 2: Summary of achievements

Training	R&D projects	Patent	No. of Publications	Teaching/ Research awards	Papers in conference / Seminars	Organizing conference/ seminar	Industrial consultancy
25	07	02	43	12	75	14	14

Table 3: Teaching and Industry Experience

Employer	Post held	Period from	to	Total
Govt. College of Engineering, Jalgaon	Professor (CAS)	17-12-2022	till date	1 year 6 Months
College of Engineering Pune 5.	Professor	25-04-2008	16-12-2022	14 years 8 Months
College of Engineering Pune 5.	Associate Professor	01-01-2006	24-04-2008	3 years 4 Months
College of Engineering Pune 5.	Assistant Professor	18-08-1999	31-12-2005	6 years 4 months
College of Engineering Pune 5.	Lecturer	06-01-1996	17-08-1999	3 years 8 months
VIT Pune 37.	Lecturer	01-01-1993	05-01-1996	3 years
Sterlite industry, Lonawala	Assistant Engineer	02-05-1991	31-12-1992	1 year 8 months
		Total experience 33 Y 04 M		

Table 4: Research Experience

Employer	Post held	Period from	to	Total
Indian Institute of Technology Bombay, Powai, Mumbai 76.	Research scholar (on deputation)	23-07-2004	20-07-2007	3years

Ph.D. thesis title: Effect of Strontium on Electrochemical Corrosion Behavior of Galvanized Coating in the Deformed and Un-deformed conditions.

Guide Name: Prof. V S Raja, Institute/Organization/University: Indian Institute of Technology Bombay, Mumbai.

Administrative responsibility: (Total Administrative Experience: 7 Years)

1. Worked as Dean (Students Affairs) at College of Engineering Pune from 14/07/2009 to 30/6/2012.

Major contributions: i) Initiation to form personality development club & student welfare forum. ii) Accelerated scholarship activity for needy students. iii) Framing of rules for channelizing various co-curricular activities.

iv) Organizing remedial coaching for weaker students. v) Framing of rules for the Best outgoing student for social work.

2. Worked as Head, Department of Metallurgy & Materials Science, College of Engineering Pune from 1st July 2012 to 15th July 2015.

Major contributions: i) Writing off computers older than five years. ii) Initiation for purchasing equipment. iii) Initiation for the renovation of computer laboratory. iv) Initiation for the renovation of basement room for reading room. v) Setting up FESEM laboratory.

3. Board of Governing member of College of Engineering Pune since January 2019 to December 2022, member of academic council and Internal quality assurance cell of College of Engineering Pune since April 2019 to December 2022.

4. Working as Dean (Academics) at Govt. College of Engineering, Jalgaon from 1st April 2023 to 31st July 2024 and Board of Governing member from March 2023.

5. Working as HoD (Mechanical) at Govt. College of Engineering, Jalgaon from 1st August 2024 till date.

Industrial Consultancy:

- 1) Analysis of Zn/Al coating on surface of pipe from Jindal Saw Ltd., Gujarat. Amount of consultancy Rs.2, 00,000/-, August 2010.
- 2) Corrosion behavior study of SAS 150 and SAS 200 specimen in accelerated environment (salt spray) from KMB-ERA J.V. Pune. Consultancy of Rs.1, 00,000/- December 2010.
- 3) Analysis of Zn/Al coating on surface of pipe, from Jindal Saw Ltd., Gujarat. Amount of consultancy Rs.2, 00,000/- July 2011.
- 4) Accreditation of life cycle & life cost benefit analysis tool for coated steel, TATA BLUE SCOPE Ltd. Pune, Rs. 25,000/-, August 2011.
- 5) Corrosion behavior of different well bore fluid systems. HALLIBURTON,Pune. Rs. 1,50,000/-, April 2012.
- 6)Environmental Salt spray corrosion behavior of coated steel. TATA BLUE SCOPE STEEL Ltd., Pune, Rs. 50,000/-, August 2012.
- 7)Certification of specifications for metallic panels. Godrej & Boyce Mfg. Co. Ltd, Interio Division, Pune.Rs. 49,439/-, September 2012.
- 8)Certification of specifications for metallic panels. Godrej & Boyce Mfg. Co. Ltd, Interio Division, Pune.Rs. 49,439/-, November 2012.
- 9) Corrosion behavior study of radiators. Young Industries Pune, Rs. 28,090/-, April 2013.
- 10) Environmental salt spray corrosion resistance of steel door frame and steel flush shutters. B.G.Shirke Construction Technology Pvt. Ltd. Pune, Rs. 28,320/-, December 2013
- 11) Corrosion behavior of cerium coated aluminum. Battelle India Pune Rs. 6,742/-, October 2014.
- 12) Corrosion behavior of reinforced cement concrete bars.Kumar enterprizes Pune, Rs.13764/-, May 2015.
- 13) Environmental salt spray exposure study for single wire loop box. B.G.Shirke Construction Technology Pvt. Ltd. Pune, Rs. 94,400/-, November 2017.
- 14) Failure analysis of the damaged chimney, M/S Integrite Insurance Surveyors and loss Assessors Pvt. Ltd. Pune. Rs. 14160/- , April 2022..

Laboratory development: Efforts was taken in establishing Corrosion and Surface Engineering laboratory. For that following equipment's were purchased to carry out scientific research in the Department. These equipment are useful for carrying out interdisciplinary research.

- i) Procurement of Potentiostat (Model: Gamry Reference 600 , IVIUM) for research and development purposes.
- ii) Procurement of Salt spray chamber, Weatherometer. (Accelerated corrosion study)
- iii) Procurement of furnaces, ultrasonic stirrer cum cleaner machine.
- iv) Procurement of Pull off adhesion tester, thickness gauge, scratch tester.

No. of students Supervised:

Ph.D. candidates: 06 completed and under review: 01

Table 5: List of candidates who completed and awarded Ph.D.

Sr.No.	Name of candidate	Title of Thesis	Awarding year
1	Pritee M. Purohit	Study of Isothermal and Cyclic oxidation and hot corrosion behavior of thermal barrier coatings	July 2017
2	Sunil S. Deshpande	Tribocorrosion behavior of automotive material in biodiesel environment.	February 2022
3	Madhuri C. Deshpande	Development and characterization of carbon fiber reinforced 7075 aluminum metal matrix composites.	May 2022
4	Gade Siddhant Rajesh	Fabrication and analysis of additively manufactured polymeric scaffold	October 2023
5	Mali Amol Shivaji	Tribo-corrosion behaviour of stainless steel in Bio-implant Application"	June 2024
6	Patil Arpit Rajendra	Synthesis and characterization of thermal barrier coatings (TBC) and investigation of their hot corrosion and oxidation behavior.	September 2024
7	Kamble Prafull Arun	Simulation and Experimental Validation of Galvanic Corrosion in a Bolted Joint.	Thesis Submitted and under review

M.Tech. Dissertation: 36 candidates completed.

B.Tech. Project: 110 students completed.

Research award: 08, Best Teacher award: 04 Participation in the conference outside India:

Citations:346;h-index:10;i10-index:10

Attachment to professional society

Life member of

Life Fellow member of Society for the advancement of Electrochemical Science and Technology (SAEST), Karaikudi (LF 693)

Indian Institute of Metals (IIM),

Materials research society of India (MRSI),

Indian society for technical education (ISTE) and

The alumni association of IIT Bombay.

Office bearer of following professional society

Chairman of SAEST Pune chapter (2012- 2018)

Chairman of IIM Pune chapter (2015-16)

Worked as Secretary from 2011 to 2014 & as Treasurer of IIM, Pune Chapter during (2001-2003).

Co-ordinator for Materials Quiz for Junior college held by IIM, Pune Chapter.

Convener/Coordinator of Professional activities: 14

1. Convener of one day National seminar on “CORROSION AND CORROSION PREVENTION FOR AUTOMOBILE COMPONENTS” with specific reference to Industrial Application on 23rd October 2010 at College of Engineering Pune 5.
2. Convener of Two day National seminar on CSET2012 held on 24 & 25 Feb, 2012 at College of Engineering Pune 5.
3. Organized certificate course work on “Piping Materials and Corrosion” for diploma / degree passed out students and professionals from Mechanical/ Production / Petroleum / Petrochemical / Metallurgy / Industrial branches. Seventeen (17) students/professionals benefitted at College of Engineering Pune 5
4. Organized half day seminar on E-Waste in association with Vasundhara on 23 Feb, 2012 at College of Engineering Pune 5 .
5. Organized IIM Pune chapter NMD on 17 February 2012 at College of Engineering Pune 5.
6. Organizing member of Advances in heat & cold treatment (AHCT 2012) during 7-8 July 2012 at Aurangabad.
7. Faculty Development Programme sponsored by TEQIP- II on “Corrosion & Surface Engineering”, 10-15 December 2012.
8. Organizing member of NMD 2007 held at Mumbai.

9. Co-convener of NMD ATM 2014 held at COE Pune
10. Initiated Steel chair professor at COEP and scholarship to 9 UG students from Ministry of Steel , GOI. (2015-2018)
11. As chairman, Indian Institute of Metals Pune chapter and Organizing member of D.P. Antia memorial lecture in 2016 arranged invited talk of eminent professional, Dr. S. Banerjee, former Chairman, AEC.
12. Organized Science academies lecture workshop on “Recent advances in corrosion engineering” during 6 to 8 January 2014 sponsored by Indian academy of sciences, Bangalore for faculty, industry professionals and Prof. Natarajan from IISc Bangalore delivered keynote talk.
13. Delivered invited talks in engineering colleges and
14. Conducted lectures on Corrosion at Defense Institute of Advanced Technology Pune. Conducted piping and corrosion prevention certificate course for professionals.

Table 6: Faculty Development programme (FDP) participated

Sr. no.	Details of short term training program		
	Title	Duration	No of days
1	Safety in metallurgical industries, SGGS Nanded.	June 1996	1 week
2	Advanced engineering materials and their applications, IIT Delhi.	December 1996	2 weeks
3	Recent trends in shaping techniques, PSG Coimbatore.	November 1999	2 weeks
4	Materials for the new millennium, GCOE Pune 5.	May 2002	4 weeks
5	Advanced methods in nondestructive evaluation, IIT Madras, Chennai.	December 2002	1 week
6	Participated in (<i>Canada-India institute industry linkage project</i>) DACUM training at Govt. Polytechnic, Ujjain (M.P.)	June 2003	2 weeks
7	Participated in (<i>Canada-India institute industry linkage project</i>) DACUM training at Govt. COE, Pune 5.	July 2003	1 week
8	Mission 10X Certification Programme at MIT Pune	December 2007	1 week

9	Technical communication skills at College of Engineering Pune 5	May 2011	1 week
10	Change management training at Hotel Surya New Delhi,	August 2011	1 week
11	Overview of nuclear Engg & its applications, CoEP, Shivajinagar Pune	June 2014	2 weeks
12	Workshop on characterization of macro, micro & nanomaterials, CoEP, Shivajinagar Pune	June 2014	1 week
13	Training on introduction to e-Governance, Yashada Pune	August 2019	3 days
14	Professional development Training , IIM Trichy	November 2019	3 days
15	Digital Teaching Techniques, ICT Academy	July 2020	1 Week
16	Awareness webinar on outcome based education and accreditation ,CoEP, Shivajinagar Pune	November 2020	1 day
17	Industry 4.0: Preparedness of academia to meet challenges, WCoE Sangli	March 2022	1 week
18	Facilitating excellence in effective leadership (FEEL Teacher) Learning and development intervention at College of Engineering pune	June 2022	3 days
19	Quality assurance and accreditation: An overview in respect of new guidelines and NEP 2020	31 st January to 4 th February 2023	1 week
20	Role of accreditation in Institute building: An NEP perspective. Shri Ramdeobaba College of Engineering and Management, Nagpur.	30-04-2023	1 day
21	Sustainable development, YASHADA, Pune	15,16 June 2023	2 days
22	Workshop on National Education Policy-2020. Vidyalankar Institute of Technology, Wadala, Mumbai	23 June 2023	1 day

23	Ancient Indian Technology and Science. MSFDA Pune	December 2023	1 week
24	FDP on “ Act Now” MSFDA Pune	June 2024	1 week
25	Foundation training program for class-I officers of higher and technical education department, YASHADA Pune	18-06-2024 to 17-07-2024	4 weeks

List of academic and research achievements/Awards:

1. Best College Teacher Award from Savitribai Phule Pune University (SPPU) Pune for academic year 2021-22, 10th February 2022.
2. Best Ph.D. Thesis award by National Association for Corrosion Engineers (NACE) International Gateway India section for the year 2007-08.
3. Shortlisted for innovative student project award for Ph.D. Degree in 2009 by Indian National Association for Engineers (INAE).
4. Best paper oral presentation award in international conference and exposition on Mechanical, Material and manufacturing Technology held at CVR College of Engineering Hyderabad during 9-10 October 2020 in online mode.
5. Best paper oral presentation award in international conference on Advances in Engineering, Science and Management (ICAESM-2021) organized by Institute for Engineering Research and Publication (IERP) at Bangalore during 28-29 November 2021 in online mode.
6. Received College of Engineering Pune Alumni Distinguished Faculty Fellow Award – Metallurgy for the year 2022-2024.
7. Distinguished faculty in Metallurgy and Materials award by Venus International Foundation, Chennai, 2nd July 2022.
8. Dr. Sarvepalli Radhakrishnan distinguished Professor and Researcher award 2022 in Metallurgy by International multidisciplinary research foundation, Vijayawada, India. September 2022.
9. International outstanding researcher award for the research and excellence in Metallurgy by ISSN International Science and Technology award and congress 2022, India November 2022.

10. Abhiyanta Bhooshan Purskar for the year 2015-16 by Babasaheb Ambedkar National Association for Engineers, Maharashtra state. Received on 10-10-2015 in Pune.
11. Best paper oral presentation award “World journal of Technology Engineering and Research, February 2018.
12. Appreciation certificate from The Institution of Engineers (India) Kolkata, India for providing service in evaluating research article, 2022.

Awards for students Supervised:

1. Preeti Kurm (M.Tech.Metallurgy) Best paper presentation award in Engineering Coat international conference held at IIT Bombay during 9-11 Feb.2012.
2. Preeti Kurm (M.Tech.Metallurgy) Second prize (PG category) in Maharashtra state level technical competition “Avishkar” held at Kolhapur in March 2012.
3. Anand Wadodakar (B.Tech. Metallurgy) Best paper presentation award in 2nd Annual International Conference on Materials Science, Metal & Manufacturing (M3 2012) Date: 19-20 November 2012, Venue: Hotel Fort Canning, Singapore

Reviewers for International Journals:

1. Appointed on panel of potential Reviewer **Materials Chemistry and Physics**.
2. Appointed on panel of potential Reviewer **Corrosion Science**. Reviewed three papers.
3. Appointed on panel of potential Reviewer **Wear** journal.
4. Appointed on panel of potential Reviewer **Institute of Engineers: C series** journal
5. Appointed on panel of potential Reviewer **Surface and Coating Technology**
6. Appointed on panel of potential Reviewer **Ceramic International**

Table 7: Research & Development sponsored projects/seminar grants

Sr. No.	Title of the project	Period	Funding Agency	Amount Rs. (lakhs)
1	Advanced casting techniques	1999-2002	AICTE	7.00
2	Zinc alloy coating for automobile applications	2008-2011	AICTE	6.00
3	Development of Zinc alloy coating to enhance corrosion resistance for automobile applications	2009-2012	University of Pune	1.5

4	Synthesis and characterization of LTA/YSZ double layer thermal barrier coatings (TBC) and their variants with respect to their corrosion and oxidation resistance	2018-2021	DST-SERB	33.84
5	Corrosion Behaviour Study of Nanoparticle containing Coating for Aluminium Alloys	2017-2019	Alumni Association of CoEP	1.15
6	Corrosion and Wear behaviour of Biomaterials in Simulated Body Fluids.	2020-2022	CoEP	5.0
7	Metal oxide Nanocomposites as efficient Electromagnetic interference shielding materials for the application of electromagnetic compatibility	2020-2022	CoEP	5.0
8	Seminar grant on corrosion & corrosion prevention for automobile components	October 2010	University of Pune	1.1
9	Seminar grant on Corrosion Science Engineering & Technology 2012	February 2012	CSIR	0.50
10	Seminar grant on Corrosion and surface engineering	January 2014	Indian Science academies	0.915

Publications:

Table 8: List of Patent granted

Sr. no.	Inventers	Title	Details of patent
1	V.S. Raja and S.T.Vagge	An improved protective coating composition for hot-dip galvanization of steel	Patent Granted no. 256103 dated 2 nd May 2013
2	Bipasa Patra, Ganesh Badgujar, Harshraj Wani, Ayush Chaudhary, Akash Bhalerao, Aman Bisen, S.T.Vagge	Secure Shield: Ultimate bike helmet locking system	Application no.20242:02650A publication date: 03-05-2024

Table 9: List of Publications in journals**National J: 04 Int. J : 39 National conference: 22 International Conference: 53**

Sr. no.	Authors	Title	Details of Journal
1	Gade Siddhant, Yadav Sunita, Vagge Shashikant Panchal Raju	Evaluation of in-vitro and electrochemical degradation of additively manufactured polymeric scaffolds	Journal of Materials Engineering and Performance (2024) Accepted manuscript
2	AR Patil, ST Vagge	The Effect of Hot Corrosion and Electrochemical Corrosion on Microhardness of the Coating	High Temperature Corrosion of Materials, 101/3 (2024) 471-483.
3	PA Kamble, PP Deshpande, S.T. Vagge	Simulation and Experimental Validation of Bimetallic Corrosion Between Galvanized Bolt and Mild Steel Plate: Effect of the Bolt Configuration	JOM 76 (1),(2024) 209-221
4	AS Mali, S.T. Vagge	Electrochemical impedance analysis of biomedical grade AISI316L in 3.5 wt.% NaCl solution	AIP Conference Proceedings 2962 (1) (2024)
5	Harshraj K. Wani, Akash G.Bhalerao, Aman N. Bisen , Ganesh K. Badgujar, Shashikant T. Vagge, Rameshwar B. Umbarkar	Leg Guard Chronicles: An Analysis of Motorcycle Leg Guard Variations, Market Trends, and Compatibility	International Research Journal of Engineering and Technology (IRJET) (11) Issue: 05 (2024) 2034-2038
6	A.R. Patil, S.T. Vagge	Oxidation and hot corrosion behaviour of functionally graded yttria stabilized zirconia and lanthanum zirconate thermal barrier coatings	Surface and Coatings Technology 474, (2023) 130059.
7	AR Patil, ST Vagge	Effect of Different V ₂ O ₅ Salt Concentrations in Presence of Chloride and Sulfate Salt on Hot Corrosion Behavior of Functionally Graded Lanthanum Zirconate	Protection of Metals and Physical Chemistry of Surfaces 59 (4), (2023)679-693.
8	AS Mali, ST Vagge, MJ Rathod	Mapping the Accouterment Effects of Plasma Nitriding on AISI 316L in Biomedical Applications	Coatings 13 (5), (2023) 839

9	AR Patil, ST Vagge	Effect of Oxidation and Hot Corrosion on Stress Corrosion Cracking Susceptibility of Inconel 738 Alloy	Strength of Materials 55 (3), (2023) 582-605
10	S Gade, S Vagge, M Rathod	A Review on Additive Manufacturing–Methods, Materials, and its Associated Failures	Advances in Science and Technology. Research Journal 17 (3), (2023)
11	S Gade, S Vagge	3D biomimetic scaffold's dimensional accuracy: a crucial geometrical response for bone tissue engineering	International Journal of Materials Research 114 (10-11), (2023) 832-843.
12	V Lokhande, S Vagge, MS Phalak	Metal oxide (IZO/Mn, Ni ferrites) nano composites as efficient electro-magnetic interference shielding materials for the application of electro-magnetic compatibility	AIP Conference Proceedings 2890 (1) (2023)
13	A.R.Patil, S.T.Vagge	Hot corrosion behavior of Inconel 738 superalloy in presence of NaCl,Na ₂ SO ₄ and V ₂ O ₅	materials today: PROCEEDINGS,65 (2022) 74-80.
14	S. T.Vagge, Suraj B. Ghogare	Thermal Barrier Coatings: Review	materials today: PROCEEDINGS, 56 (2022) 1201-1216.
15	S. T.Vagge, Atul B.Pahurkar , Suraj B. Ghogare	Synthesis and processing of thermal barrier coatings with the use of YSZ, LTA and LTA/YSZ	materials today: PROCEEDINGS, 48 (2022) 1680-1689.
16	SR Gade, ST Vagge	Process optimization of additively manufactured PLA specimens on surface quality using the Taguchi method	International Journal of Mechanical Engineering (2022)
17	P.A. Kamble, P.P.Deshpande, S.T.Vagge	Numerical Investigation of Galvanic Corrosion Between Galvanized Steel and Mild Steel in Bolted Joint	Materials today: PROCEEDINGS, 50 (2021)1923-1929.
18	Amol S. Mali, S.T.Vagge, Aniket Kolekar	Tribological behavior of LM25 hybrid metal matrix composites by using Taguchi's techniques	Materials today: PROCEEDINGS, 50 (2021) 1827-1834.
19	S.T.Vagge , Shubhankar Bakshi	Effect of precipitation hardening on stresscorrosion cracking susceptibility index of AZ31B magnesium alloyin simulated body fluid	Materials today: PROCEEDINGS, 38, part 5 (2021) 2191-2199. https://doi.org/10.1016/j.matpr.2020.05.568

20	Sunil Deshpande, Akshay Joshia, Shashikant Vaggea, Nitinkumar Anekar	Wear Behavior of Spheroidal Graphite Cast Iron in Biodiesel Blends	Journal of Bio- and Tribo-Corrosion 6:4 (2020) https://doi.org/10.1007/s40735-019-0300-2
21	Sunil Deshpande, Akshay Joshia, Shashikant Vaggea, Nitinkumar Anekar	Heat treatment effect on Corrosion behavior of nodular cast iron using electrochemical tests	materialstoday: PROCEEDINGS, 28,2 (2020) 684-692.
22	Madhuri Deshpande, S T Vagge, S V S Narayan Murty, H.Kale, R.Gondil	Studies on electrochemical corrosion of carbon fibre reinforced aluminum alloy AA7075	Sadhana,44, (2019) 10 https://doi.org/10.1007/s12046-019-1213-y
23	Sunil Deshpande, Akshay Joshia, Shashikant Vagge, Nitinkumar Anekar	Corrosion behavior of nodular cast iron in biodiesel blends	Engineering Failure Analysis , 105 (2019) 1319- 1327. https://doi.org/10.1016/j.engfailanal.2019.07.060
24	Arpit R. PATIL, S. T. Vagge	Corrosion and tribological study of ti-6al-4v alloy in ringer solution	U.P.B. Sci. Bull., Series B, 80, 2 (2018) ISSN1454-2331.
25	Arpit R. PATIL, K.R.Patil, S. T. Vagge	Effect of varying load on wear characteristics of Ti-6Al-4V alloy	IJRITCC 5 (9),(2017) 31-35
26	Pritee Purohit, S.T. Vagge	Evaluation of alumina incorporated combined ceramic layer thermal barrier coating	Surface and Coating Technology, 307 (2016) 871–878.
27	Mahesh Yantapure, Pravin Deshpande, Shashikant Vagge	Effect of current density and deposition time On galvanostatic phosphating of low carbon Steel	U.P.B. Sci. Bull., Series B, 77, 1 (2015) 173-180.
28	VM Bansode, ST Vagge, AB Kolekar	Electrochemical corrosion behavior of steel pipe in alkaline soil	Metall. Mater. Sci 2, (2015) 65-68

29	VM Bansode, ST Vagge, AB Kolekar	Relationship between Soil Properties and Corrosion of Steel Pipe in Alkaline Soils	Int. J. Res. Sci. Innov, 2 (11), (2015) 57-61
30	Jaydeep Khade, Pravin Deshpande, Shashikant Vagge	Electro deposition of m-amino phenol on low carbon steel and corrosionprotection studies	U.P.B. Sci. Bull., Series B, 76, 4 (2014) 195-202.
31	Prathames Deshpande, Pravin Deshpande, Shashikant Vagge	Galvanic corrosion investigations on conducting poly (o-anisidine) coated low carbon steel samples by using zero resistance ammeter	UNIVERSITY POLITEHNICA OF BUCHAREST SCIENTIFIC BULLETIN SERIES B-CHEMISTRY AND MATERIALS SCIENCE, 75/4, (2013) 251-261.
32	PP Deshpande, SS Vathare, ST Vagge, E Tomšík, J Stejskal	Conducting polyaniline/multi-wall carbon nanotubes composite paints on lowcarbon steel for corrosionprotection: electrochemicalinvestigations	Chemical Papers 67 (2012) 1072-1078.
33	P.P.Deshpande S.T.Vagge, S.P.Jagtap, R.Khiarnar, and M.A.More	Conducting Polyaniline Based Paints on Low Carbon Steel for CorrosionProtection	Protection of Metals and Physical Chemistry ofSurfaces 48, 3 (2012) 356-360.
34	P Deshpande, S Vagge, S Jagtap, R Khiarnar, S Kelkar, M More	Conducting polyaniline based paints on hot dip galvanized low carbon steel for corrosion protection	Bulg Chem Commun,44/4 (2012) 318-323.
35	Pravin P. Deshpande, Shashikant T. Vagge, Mahendra A. More and Sarika A.Kelkar	A comparison between corrosion protection properties of galvano statically and potentiono statically deposited conducting poly (aniline –co – o -anisidine) coatings on low carbon steel	J. Electrochem Soc. India, 60 (2011) 60-64.

36	P.P.Deshpande, S.T.Vagge, M. A.More and S. A. Kelkar	Potentiostatic deposition of conducting poly(aniline- co-o- anisidine) coating on low carbon steel and its corrosion performance ,	Journal of Surface Science and Technology, 27,3 (2011) 225-230.
37	P.P.Deshpande, S.T. Vagge , M. A.More and S. A. Kelkar	Galvanostatic deposition of conducting poly (o- toluidine – co – o anisidine) coating on low carbon steel and its corrosion performance	Journal of Metallurgy and Materials Science,60, 1/2 (2011) 23-27.
38	P . P. Deshpande , S.T. Vagge , Manish Meshram, Sandhya Pondkule , M. A.More and S. A. Kelkar,	Galvanostatic Deposition of Conducting poly (o-anisidine) Coating on Low Carbon steel for Corrosion Protection	Journal of Metallurgy and Materials Science, 53(2011) 269- 274.
39	S.T.Vagge and V.S. Raja	Influence of strontium on electrochemical corrosion behavior of hot-dip galvanized coating	Surface and Coating Technology 203 (2009) 3092-3098.
40	S.T.Vagge and V.S. Raja	Effect of strontium on electrochemical corrosion behavior of galvanized coating in the deformed and undeformed conditions	Corrosion Combat 15,1 (2009) 5-13.
41	S. T. Vagge, G. Sreedhar and V. S. Raja	Corrosion and degradation of steel sheets	Steel Tech Journal 3,1 (2008) 33-40.
42	S. T. Vagge, V. S. Raja and R. Ganesh	Effect of deformation on the electrochemical behavior of hot dip galvanized	Applied Surface Science, 253 (2007) 8415- 8421.

	Narayanan	steel sheets	
43	V.S. Raja, C.K. Panday. V.S. Saji, S.T. Vagge, K. Narasimhan	An electrochemical study on deformed galvanneal steel sheets	Surface and Coating Technology 201 (2006) 2296-2302.

Book Chapters:

1. Pritee Purohit, S T Vagge - Oxidation and Tribology of Al₂O₃-Induced LaTi₂Al₉O₁₉/YSZ Double Ceramic Layer Coatings: Tribo-Oxidation - IGI Global publishers, 2022, ISBN:9781 799896838
- 2.Pritee Purohit, S T Vagge and B. Shrigadi - Cyclic oxidation of combined LTA-YSZ and alumina thermal spray coatings-IGI Global publishers, 2021, ISBN: 97 81799848707
3. Pritee Purohit, S T Vagge - Oxidation behavior of LTA-YSZ intermixed layer coating- IGI Global publishers, 2018, ISBN: 9781522541943

Table10: Publications in Proceedings/Presentations in International and National conferences

Sr. no.	Authors	Title	Details of Conference
1	S T Vagge,S. Thombare, K.S. Suranje	Study of the corrosion and wear behavior of Ti-15%Mo laser cladding on316L Stainless Steel in Simulated Body Fluid	CORCON 2022, International conference organized by NACE International India section and AMPP India chapter at Udaipur, Rajasthan 19-22 September 2022.
2	S T Vagge, Suraj Ghogare	Thermal Barrier Coatings: Review	Advances in Mechanical Engineering and Material Science (ICAMEMS-2022) , VIT- AP University during 22-24 January 2022.

3	Pritee Purohit, S T Vagge	Oxidation kinetics of Al_2O_3 induced $LaTi_2Al_9O_{19}$	International conference on Material Science and Manufacturing Engineering(ICMSME-2021) held at Shakti Institute of Engg. & Tech.Coimbatore during 10-11 December 2021.
4	Amol Mali, S T Vagge	Electrochemical Impedance analysis of Biomedical grade SS316L in 3.5 wt.% NaCl solution	International conference on Advanced Materials and Mechanical Characterization (ICAMMC2021),SRM Institute, 2-4 December 21.
5	V Lokhande, S Vagge, MS Phalak	Metal oxide (IZO/Mn, Ni ferrites) nano composites as efficient electro-magnetic interference shielding materials for the application of electro-magnetic compatibility	International conference on Advanced Materials and Mechanical Characterization (ICAMMC2021),SRM Institute, 2-4 December 21.
6	Arpit R Patil, S T Vagge	Hot Corrosion behaviour of Inconel 738 superalloy in presence of salts	International conference on Advanced Materials and Mechanical Characterization(ICAMMC2021), SRM Institute, 2-4 December 21.
7	Siddhant Gade, S T Vagge	Optimization of process parameters to reduce the surface roughness of additively manufactured specimen	International conference on Advanced Materials and Mechanical Characterization(ICAMMC2021), SRM Institute, 2-4 December 21.
8	Arpit R Patil, S T Vagge	Hot corrosion behavior of Inconel 738 superalloy in presence of NaCl, Na_2SO_4 , V_2O_5	CORCON 2021, NACE International Gateway India section, 18-20 November 2021.
9	Arpit R Patil, S T Vagge	High temperature cyclic Corrosion of Inconel 738 superalloy at 7000C by coating the material with different Chemical Compositions of NaCl, Na_2SO_4 , V_2O_5 in air	NMD ATM 2021, Jamshedpur, November 2021.

10	S.T.Vagge , Shubhankar Bakshi	Effect of precipitation hardening on stress corrosion cracking susceptibility index of AZ31B magnesium alloy in simulated body fluid	International conference and exposition on Mechanical, Material and manufacturing Technology held at CVR College of Engineering Hyderabad, 9-10 Oct 2020. (online mode)
11	S T Vagge, M D Jagdale	Effect of heat treatment on stress corrosion cracking behavior of AZ91D magnesium alloy in simulated body fluid	NMD ATM 2018, Kolkatta 2018, November 2018.
12	S T Vagge, Arpit R Patil	Electrochemical Corrosion behaviour and wear study of Ti-6Al-4V alloy in Ringer Solution	NMD ATM 2017, BITs Goa November 2017.
13	S. T. Vagge , R Dharmawar	Corrosion and Wear behavior of AISI 316L stainless steel in Hank's solution	NMD ATM 2016, IIT Kanpur 2016, November 2016.
14	S. T. Vagge , S S Deshpande	Tribological and corrosion study of automotive material in Biodiesel	NMD ATM 2016 , IIT Kanpur 2016, November 2016.
15	Pritee Purohit S. T. Vagge ,B Doddanawar	Study of isothermal and cyclic oxidation of Thermal Barrier Coating.	NCCI Chennai, February 2016.
16	R Dharmawar, S. T. Vagge ,	Corrosion and Tribo Corrosion Behavior of AISI316L Medical Grade Steel in Hank's Solution	NCCI Chennai, February 2016.
17	Pritee Purohit S. T. Vagge ,	Isothermal and hot corrosion behavior of thermal barrier coatings (TBC)	APCCC 2016, IIT Bombay, January 2016.

18	S. T. Vagge ,A S Rokade	Study of tribological and corrosion properties of super duplex stainless steel piston rods used in marine environment	NMD ATM 2015, Coimbatore November 2016.
19	S. T. Vagge , Pritee Purohit	Study of cyclic oxidation behaviour of LTA as top coat material for TBC	NMD ATM 2014 CoEP Pune November 2016.
20	S. T. Vagge and G. Lohar	Electrochemical corrosion behavior of electroless Ni Plating	NMD ATM 2014, CoEP Pune November 2016.
21	S. T. Vagge, R Kanhe	Electrochemical corrosion behavior of different wt.% ZnO nanocomposite epoxy coating on galvanized steel	NMD ATM 2013, IIT BHU Varanasi, November 2013.
22	S. T. Vagge, Preeti Kurm, P.P.Deshpande	Electrochemical corrosion behaviour of automotive exhaust muffler after heat cycle	Proceeding of 2 nd Annual International Conference on Materials Science, Metal & Manufacturing (M3 2012) Date: 19-20 November 2012, Venue: Hotel Fort Canning, Singapore,pp.181-190.
23	S. T. Vagge, Preeti Kurm	Surface treatment of aluminized mild steel followed by powder coating to improve corrosion and heat resistance of Automotive Exhaust Muffler	International Conference Corcon 2012, held at Goa during 26-29 September 2012.
24	Preeti Kurm, S. T. Vagge	High temperature heat resistant powder coating of automotive exhaust muffler	Engg Coat international conference, 9-11 February 2012, IIT Bombay.
25	M. S. Panhale, R. A. Madane, S. T. Vagge, P. P. Deshpande,	Corrosion protection of cast iron by hot dip galvanizing	Engg Coat international conference, 9-11 February 2012, IIT Bombay.
26	S.H. Kendre, H.A. Pazare, S.T. Vagge, P.P. Deshpande,	Comparative corrosion behavior study of hot dip zinc coatings and duplex coatings,.	Engg Coat international conference, 9-11 February 2012, IIT Bombay.

27	K. J. Borse, N. V. Chamele, P. P. Deshpande, S.T. Vagge	Effect of conducting poly (o-anisidine) primer on the anticorrosion properties of epoxy coating on low carbon steel	Engg Coat international conference, 9-11 February 2012, IIT Bombay.
28	S.T.Vagge	Development of zinc alloy coating to enhance corrosion resistance for automobile applications	Regional research conference for University & College Teachers, Innovation 2012, April 2012, MAE Alandi
29	S.T.Vagge, Kendre	Study of zinc alloy coating to enhance corrosion resistance for automobile applications	19 and 20 March 2012 : Regional Research conference, Avishkar 2012.
30	P.P.Deshpande ,S.T. Vagge and S.S. Vathare	Conducting Polyaniline based paints for corrosion protection	19 and 20 March 2012 : Regional Research conference, Avishkar 2012. .
31	S. S. Vathare, P. P. Deshpande, S. T. Vagge	Corrosion protection of low carbon steel using conducting polyaniline based paints	Engg Coat international conference, 9-11 February 2012, IIT Bombay.
32	Preeti Kurm, S. T. Vagge	Corrosion behavior of powder coated mufflers	CSET 2012, 24-25 Feb.2012, COEP
33	A.B.Jadhav,S.T.Vagge	Study of corrosion behavior of mufflers for High heat resistance coatings in 3.5% NaCl solution	CSET 2012, 24-25 Feb.2012, COEP

34	A.B.Jadhav,S.T.Vagge	Corrosion behavior of powder coated mufflers	NMD-ATM 2011 , Hyderabad, November 2011.
35	A.B.Jadhav,S.T.Vagge, M.V.Dalvi	study of corrosion behavior of powder & liquid for mufflers for high heat resistance coatings	International conference & exhibition on New vistas in particulate materials technology 38 th ATM of PMAI, at Mumbai on 2 – 4 February 2012.
36	A. B. Jadhav and S. T. Vagge	corrosion performance of powder & liquid paint coating using EIS	19-24 August 2012, ICSWA 2012, IISc Bahgalore .
37	A. B. Jadhav and S. T. Vagge	Study of corrosion behavior of mufflers for high heat resistance coatings	ICAM 2011, Coimbatore, 12-16 December 2011.
38	A. B. Jadhav and S. T. Vagge	Study of corrosion behavior of mufflers for high heat resistance coatings in 3.5 % NaCl solution	9-11 Dec, Kharagpur, ICAMMP 2011.
39	A. B. Jadhav and S. T. Vagge	“Prevention of corrosion for mufflers by powder and paint heat resistance coatings”	28 Sept. -1 Oct, Mumbai, CORCON 2011.
40	A. B. Jadhav and S. T. Vagge	“Study of corrosion behavior of mufflers for high heat resistance coating”	3 – 5 March, SSPC 2011, New Delhi.
41	S. T. Vagge , A.B. Jadhav	CORROSION BEHAVIOR STUDY OF COATED MUFFLERS FOR AUTOMOBILES	International conference onSurface modification technologies, SMT 25,Trollhotten, June, 2011.Swden.

42	S.T.Vagge	Effect of filler materials on frictional behaviour of Poly phenylene sulphide (PPS) composite	International conf. on wear of materials, April 2011. USA.
43	S.T.Vagge and H.Wagh	Study of corrosion behavior of epoxy paint and acrylic resin modified with SiO ₂	NMD-ATM 2010, 13-16 Nov. 2010, Bangalore. .
44	S.T.Vagge and A.B.Jadhav	Prevention of corrosion on muffler coated by Powder coating.	NMD-ATM 2010, 13-16 Nov. 2010,Bangalore.
45	S.T.Vagge	Study of zinc alloy coating to enhance corrosion resistance for automobile applications	Regional research conference for University & College Teachers, 27-28 Oct 2010.PVVPCOE, A'nagar.
46	S.T.Vagge and A.B.Jadhav	STUDY OF CORROSION BEHAVIOUR OF POWDER COATED AUTOMOBILE MUFFLER	National Conference on Recent Advances in Materials Science & Engineering A Multidisciplinary Approach [RAMSE 2010] October 23-24, 2010,Guna, MP
47	S.T.Vagge,P.Koli, G.Mahajan	Study of zinc alloy coating to enhance corrosion resistance for automobile applications	Avishkar held by University of Pune at Sinhgad COE, 21-22 Oct 2010.

48	S.T.Vagge	Multidisciplinary approach to nurture students in engineering institute to cope up with global competition	9 th ASEE global Colloquium on engineering education, National University of Singapore, 18-21 October 2010.
49	S.T.Vagge	Coated Sheet Metals, Their Corrosion Problems and associated remedial measures	World Corcon 2010, held at Goa during 23 – 26 September. 2010.
50	S.T.Vagge and R.D.Angal	Atmospheric corrosion behavior of structural steels	International workshop conference and Expo Marine applications, IWCEM 2010 ,DIAT, Pune, 14 -16 January 2010.
51	S.T. Vagge, and V.S. Raja,	Electrochemical corrosion behavior of hot-dip zinc coating containing strontium	International conference on Maintenance, Inspection, Corrosion, Materials engineering, and Plant reliability, MICMEP 2009, Vadodara, 8-9 December 2009.
52	S.T. Vagge	Corrosion Problems of Coated Sheet Metals and their remedial measures	International conference National Metallurgist day -Annual technical meeting, NMD-ATM 2009, Kolkata, 13-16 November 2009.
53	S.T. Vagge	Corrosion behavior of hot-dip zinc coating containing magnesium	International conference on Surface modification technologies, SMT 23, Chennai, 2-5 November, 2009.
54	S.T.Vagge	Study of corrosion behavior of magnesium containing GI coatings in the deformed condition	International conference World Corcon 2009 ,Mumbai, 29 th Sept.- 1 st October 2009.
55	S.T. Vagge and V.S. Raja	Corrosion behavior of hot-dip zinc coating containing strontium	International conference Asian particle technology symposium, APT 2009, Delhi 14-16 September.2009.

56	S.T. Vagge, K.M.Gune and A.C.Vinchu	Influence of magnesium on electrochemical corrosion behavior of galvanized coating	National Symposium for Materials research scholars-MR09, IIT Bombay 8-9 May 2009.
57	S.T. Vagge V.D.Bari and N.D.Padwal	Effect of inhibitor (hexamethylene tetramine) on electrochemical corrosion behavior of aluminum in nitric acid	National Symposium for Materials research scholars-MR08, IIT Bombay 8-9 May 2009.
58	S.T.Vagge	Corrosion behavior of electroless nickel coating	2 nd International symposium on advanced materials and polymers, aerospace and defense applications SAMPADA 2008 at Pune 8-12 December 2008.
59	S.T. Vagge	Corrosion prevention of steel sheets through protective coating	International conference National Metallurgist day -Annual technical meeting, NMD-ATM 2008, Delhi 13-16 November 2008.
60	S.T.Vagge	Coated Sheet Metals, Their Corrosion Problems and associated remedial measures	International workshop conference and Expo Marine applications, IWCEM 2008 ,DIAT, Pune, 6-8 November 2008.
61	S.T. Vagge and V.S. Raja	Influence of strontium addition on electrochemical corrosion behavior of hot-dip zinc coating	International conference surface modification technology conference, SMT 22, Sweden, 22-24, September 2008.

62	S.T. Vagge	Study of corrosion resistance and delamination resistance of hot-dip galvanized steel sheets deformed under different strain	National Symposium for Materials research scholars-MR08, IIT Bombay 17-18 May 2008.
63	S.T. Vagge and V.S. Raja	Corrosion problems of coated sheet metals and their control	International conference on galvanized coating, Jamshedpur, 14-16 February.2008.
64	V.S. Raja, S.T. Vagge and B.Tyagi	Corrosion prevention for sheet metals	National conference on sheet metal forming, SMF'07, Pune, 12-13, December 2007.
65	S.T.Vagge and V.S. Raja	Comparison of deformation behavior on corrosion protection of hot dip galvanized and galvanneal sheets	International conference National Metallurgist day -Annual technical meeting, NMD-ATM 2007, Mumbai, 13-16 November.2007.
66	S.T. Vagge, V.S. Raja	Comparative study of deformed hot dip galvanized and galvanneal steel sheets	International conference Asian Pacific corrosion control conference, 14 th APCCC, Shanghai (China), 21-24 October., 2006.
67	S.T. Vagge, V.S. Raja, C.K. Panday, V.S. Saji, K. Narasimhan	An electrochemical study on deformed galvanneal steel sheets	International conference Maintenance, Inspection, Corrosion, Materials engineering, and Plant reliability ,MICMEP Vadodara, 6-8 February.2006.
68	S.T. Vagge, and V.S. Raja	A comparative study of corrosion behavior of laboratory developed and commercially available hot- dip galvanized coatings	International conference Corcon 2005, Chennai, 28-30 November. 2005.

69	V.S. Raja, S.T. Vagge, B Tyagi	Corrosion prevention for sheet metals	International congress on sheet metal technology for global competitiveness ,Mumbai 14-17 October 2004, and Delhi 18-20 October, 2004.
70	S.T.Vagge	Modification in heat treatment cycle of (Al-Mg-Si) alloy for the bearing cap	International heat treat – 2004 , ASM international, Chennai, January 2004.
71	S.T.Vagge	Effect of MoS ₂ and graphite on polypropylene sulphide composites on mechanical properties for bearing applications	3 rd international conference on advances in strategic technologies, Kaula Lumpur, Malaysia, August 2003.
72	S.T. Vagge	Synthesis of bimetallic Cu-Ag nanoparticles in thermally evaporated fatty acid film by ion entrapment method	National Conference on nanotechnology,ICON 200) Chandigarh, December 2003. (proceeding)
73	S.T. Vagge	Synthesis and characterization of Iron oxide nanoparticles	National Conference on nanotechnology, ICON 2003 Chandigarh, December.2003.
74	S.T. Vagge, V.D. Kodgire	Welding aspects of few structural materials	National Conference on Recent advances in melting, casting and welding techniques. RAMCWT at BHU, Varanasi, November 1998.
75	S.T. Vagge, V.D. Kodgire	Innovation in curriculum development	IIIrd Maharashtra- Goa ISTE conference, Pune, September 1998.

Contribution at University/College/State Level/National Level

College / University Level:

Member of Board of studies in Metallurgy & Materials science at Savitribai Phule Pune University (2011-2015).

Member of Faculty of Engineering at Savitribai Phule Pune University (2011-2015).

Recognized research (Ph.D.) supervisor of Savitribai Phule Pune University.

Served as Expert member of panel for Metallurgy faculty at Savitribai Phule Pune University as well as Defence Institute of Advanced technology (DIAT) Pune.

Member of Board of studies in Metallurgical Engineering at Defense Institute of Advanced Technology Pune from 2014 to 2022.

Member of Board of Governors at College of Engineering, Pune 411005 from 2019 to 2022.

Member of Academic council College of Engineering, Pune 411005 from 2019 to 2022.

Member Internal quality assurance cell College of Engineering, Pune 411005 from 2019 to 2022.

Chairman Board of studies in Metallurgical Engineering Department of Metallurgy & Materials Science, College of Engineering, Pune 411005 from 2012 to 2015.

Expert examiner of Ph.D. Thesis for DIAT Pune, Rasoni CoE & M Pune.

Delivered invited talks in different Engineering colleges in Pune.

Member of Board of Governors at GCoE Jalgaon from March 2023.

Member Secretary of Academic council at GCoE Jalgaon from April 2023 to July 2024.

State Level:

Expert examiner of M.Tech. and M.S. at IIT Bombay, Powai, Mumbai.

Served as Expert member for Metallurgy at Directorate of Technical Education, Mumbai and Maharashtra Public Service Commission, Mumbai, Maharashtra.

Expert examiner of Ph.D. Thesis for KBCNMU, Jalgaon.

Delivered invited talks in different Engineering colleges in Maharashtra.

National Level:

Panel member of the selection committee for Advisors and Directors held at AICTE, New Delhi from August 2016 to April 2022.

Expert member of the evaluation committee for National Board of Accreditation in Metallurgy and Materials Engineering at undergraduate and post graduate from April 2015.

Member of Engineering Evaluation and Appellate Committee (**EEAC**) of NBA New Delhi.

Expert panel member of Margadarshak Committee for mentor and mentee Institute selection at AICTE HQ, New Delhi.

Expert examiner of Ph.D. Thesis for M.S. University Baroda, Vadodara.

Delivered invited talk in Government Engineering college, Gandhinagar, Gujarat.

International:

Attended and participated in “Sakal Educon” workshop at Mosco, Russia in 2018.

Attended and participated in “Strategic Planning” workshop at Kuala Lumpur, Malaysia in 2013.

Presented research paper as well as Session chair at 2nd Annual International Conference on Materials Science, Metal & Manufacturing (M3 2012) Date: 19-20 November 2012, Venue: Hotel Fort Canning, Singapore.

Session chair at Engineering Coat international conference held at IIT Bombay during 9-11 Feb.2012.

Presented research paper in international conference at Shanghai, China in 2006.

Participated in Canada India Institute international linkage project at Ujjain in 2003 as well as conducted one workshop at CoE, Pune in 2003.

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