



**BHARATI VIDYAPEETH'S
COLLEGE OF ENGINEERING FOR WOMEN, PUNE**

Pune-Satara Road, Dhankawadi, Taluka – Haveli, Dist.- Pune

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Department of Engineering Sciences & Allied Engineering

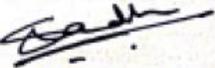
Publications in International Journals (2024-2025)

Sr. no.	Month and Year of Publication	Author Name	Title of Journal/Conference	Title of Publication	Volume /Issue	ISSN No	Indexing
1	Jun-25	Prof. Dr. P.V.Jadhav	Indian Journal of Orthopaedics	Revolutionizing Orthopedics through Integration of Artificial Intelligence and 3D Printing for Enhanced Patient Care	Volume 59	1998-3727	Scopus
2	Dec-24	Prof. Dr. P.V.Jadhav	Microfluidics and Nanofluidics	Analysis and optimization of microfluidic systems for real-time detection of nutrients in soil based on computational fluid dynamics and response surface methodology.	Volume 29 article 9	1613-4982	Scopus
3	Mar, 2025	Prof. Dr. P.V.Jadhav	Engineering Research Express	Emerging trends in hybrid ECM: a review of multi-assisted machining techniques	volume 7, issue 1	2631-8695.	Scopus
4	Nov--24	Prof. Dr. P.V. Jadhav	International Journal on Interactive Design and Manufacturing (IJIDeM)	A review on high speed micro-milling of shape memory alloy (NiTinol): Process and post perspective		1955-2505	Scopus

5	Sept, 2023	Prof. Dr. A. M. Pawar	Journal of Information Systems Engineering and Management	Intelligent Health Management Systems: Leveraging Information Systems for Real-Time Patient Monitoring and Diagnosis	Vol. 10 No. 1		Scopus
6	Jan-2025	Prof. Dr. A. M. Pawar	Advances in Nonlinear Variational Inequalities	Mathematical Approaches to Circuit Optimization in VLSI Design	Vol. 28 No. 1	1092-910X	Scopus
7	Jan-2025	Prof. Dr. A. M. Pawar	Advances in Nonlinear Variational Inequalities	Game Theory Applications in Smart Grid Energy Management	Vol. 28 No. 1	1092-910X	Scopus
8	Aug,20 24	Prof. Dr. A. M. Pawar	Helijon	Validation of effect of composite additive on optimized combustion characteristics of CI engine using AHP and GRA method	Volume 10, Issue 15	2405-8440	Scopus
9	April,2 025	Prof. Dr. Smita S. Jadhav	Journal of Applied Bioanalysis	Pharmaceutical And Medical Science Applications Of A Validated LC-MS/MS Method For Multi-Mycotoxin Analysis In Food	Volume 11, Issue 2,	240571 0X	Scopus
10	November, 2024	Prof. Dr. Smita S. Jadhav	Nanotechnology Perceptions	Development of Intelligent Nanomaterials for Enhanced Performance in Medical Engineering Applications	Vol.20, No.6	1660-6795	Scopus
11	Dec-24	Dr. Milind Anand Patwardhan	Journal of Electronic Materials	Fluorescence Spectra and Optical Transition Properties of Eu ³⁺ -Doped Ca ₃ NbGa ₃ Si ₂ O ₁₄ Phosphor	Volume 54 & Issue 8	ISSN:0 361-5235E- ISSN:1 543-186X	Scopus
12	Feb-25	Dr. Milind Anand Patwardhan	Journal of Electronic Materials	Spectroscopic Properties and Judd-Ofelt Analysis of Ca ₂ La ₃ (SiO ₄) ₃ F:Eu ³⁺ Phosphor	Volume 54 & Issue 8	ISSN:0 361-5235E- ISSN:1 543-186X	Scopus

13	Mar-25	Dr. Milind Anand Patwardhan	Luminescence	Determination of Judd–Ofelt Parameters for LiGd ₂ –XY _x :Eu ³⁺ O ₃ Nanophosphor Synthesis by Combustion Method With Glycine as Fuel for Near UV Light Emitting Diode	Volume 40 & Issue 3	ISSN:1 522-7235E- ISSN:1 522-7243	Scopus
14	May-25	Dr. Milind Anand Patwardhan	Materials Research Bulletin	Investigations on photoluminescence properties, quantum and Judd-Ofelt analysis of novel NaSrY(BO ₃) ₂ :Eu ³⁺ phosphor for lighting applications	Volume 191 & Issue 3	ISSN:0 025-5408	Scopus
15	Nov.- 2024	Santosh R Mitkari	Communications on Applied Nonlinear Analysis	Pure and Weakly Pure Elements in Lattice Modules	Vol.32N o. 2s	1074-133X	Scopus
16	Aug 2024	Santosh R Mitkari	International Journal of Information Technology (Singapore)	A novel healthcare decision support system using IoT and ANFIS	Volume 16, pages 5421–5427, (2024)	2511-2112	Scopus
17	June- 2025	Prof. K. B. Naikwadi	Indian Journal of Otolaryngology and Head & Neck Surgery	A Study on Regression Based Machine Learning Models to Predict the Student Performance	Volume 38, Issue 2	2394 - 1707	Scopus
18	Aug 2024	Prof. K. B. Naikwadi	Journal of Engineering Education Transformations (JEET)	Superiorly Based Preauricular Flap for Total Ear Lobe Reconstruction Following a Large Keloid Excision	Volume 76	0973-7707	Scopus
19	April- 2025	Prof. Smitha R. God	International Journal of Environmental Sciences (2229-7359)	Experimental Investigation On Load Carrying Capacity Of Modified Reinforced Concrete Column Wrapped With Glass Fibre Reinforced Polymer	Volume -11& Isuue - 2S (2025)	2229-7359	Scopus

20	April-2025	Dr Maharudra Keshav Kapse	Journal of Emerging Technologies and Innovative Research	From Margins to Center: Gender, Sexuality, and Resilience in Truth About Me: A Hijra Life Story by A. Revathi	Volume 12 Issue 4	2349- 5162	
21	June-2025	Dr Maharudra Keshav Kapse	Tuijin Jishu/Journal of Propulsion Technology	Linguistic Fallacies Due to the Wrong Use of Language on Social Media: A Sociolinguistic Analysis	Volume 46 Issue 2	1001- 4055	Scopus
22	March-2025	Prof. Dr. M. K. Kapse	Incorporating Indian Knowledge System IKS into Higher Education: Challenges and Opportunities	" Multi-Disciplinary International Conference on IKS Teaching and Curriculum Designing: Challenges for Teachers and Future Pathways"		978- 81- 985252 -4-6	
23	Nov-2024	Prof. Rahul Desai	Advances in Nonlinear Variational Inequalities	A Novel Approach to Eliminate the Dead Code and Change the Looping Structure for Optimizing the Code	Volume 28 & Issue No. 2s (2025)	1092- 910X	Scopus


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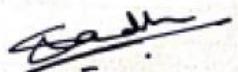
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Publications in International Conferences (2024-2025)

Sr. no.	Month and Year of Publication	Author Name	Title of Journal/Conference	Title of Publication	Volume/Issue	ISBN No.	Indexing
1	25-Mar-25	Dr Maharudra Keshav Kapse	BVDU-IKS Conference	Incorporating Indian Knowledge System (IKS) into Higher Education: Challenges and Opportunities		978-81-985252-4-6	



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1	May 2024	Prof. Dr. P.V. Jadhav	Materials Today: Proceedings	A review of shape memory alloys in MEMS devices and biomedical applications			Scopus
2	Aug 2024	Prof. Dr. A. M. Pawar	Heliyon	Validation of effect of composite additive on optimized combustion characteristics of CI engine using AHP and GRA method	Volume 10 Issue 15	2405-8440	Scopus
3	Oct, 2023	Prof. Dr. A. M. Pawar	International Journal on Recent and Innovation Trends in Computing and Communication	Local Industrialization Based Lucrative Farming Using Machine Learning Technique	Volume 11 Issue 10S	2321-8169	Scopus
4	July 2023	Prof. Dr. A. M. Pawar	IEEE conference Proceedings	Vehicle Number Plate Detection using YoloV8 and Easy OCR			Scopus
5	Nov, 2023	Prof. Dr. A. M. Pawar	IEEE conference Proceedings	Music Generation using RNN-LSTM with GRU			Scopus

6	2024	Prof. Dr. A. M. Pawar	E3S Web of Conferences	Transparency in Algorithmic Decision-making: Interpretable Models for Ethical Accountability	491, 02041		Scopus
7	Dec,20 23	Prof. Dr. A. M. Pawar	Energy and Environment Focus	Optimized Design of Shell and Tube Heat Exchanger with Segmental Baffles	Vol.7 Issue 3	2326-3040	Scopus
8	Aug 2023	Prof. Dr. A. M. Pawar	Materials Today: Proceedings	Application of phase change material (PCM) in battery thermal management system (BTMS): A critical review			Scopus
9	Aug- 2023	Prof. Dr. A. M. Pawar	10th National Conference on Recent Developments in Mechanical Engineering, RDME 2022	Diabetes prediction and drug administration using knowledge engineering approach	Volume 2890, Issue 1		GS
10	Aug- 2023	Prof. Dr. A. M. Pawar	10th National Conference on Recent Developments in Mechanical Engineering, RDME 2022(Indexing: Scopus)	Face recognition using open CV and VGG 16 transfer learning	Volume 2890, Issue 1		Scopus
11	Aug- 2023	Prof. Dr. A. M. Pawar	10th National Conference on Recent Developments in Mechanical Engineering, RDME 2022 (Indexing: Scopus)	Comprehensive review about automatic classification of medicinal plants	Volume 2779, Issue 1		Scopus
12	March 2024	Prof. M. A. Patwardhan	Journal of Optics (Springer Nature)	JO parameter analysis for Y2O3: Eu3+nanophophor synthesis by novel low temperature combustion method with thioglycerol as fuel for near UV light emitting diode	Volume 53	ISSN:0972-8821E-ISSN:0974-6900	Scopus

13	Aug 2023	Prof. M. A. Patwardhan	Luminescence Formerly known as: Journal of Bioluminescence and Chemiluminescence (Indexing: SCI, Scopus, WOS)	Novel low-temperature synthesis of Y ₂ –xO ₃ :Eu _x 3+nanophosphor using combustion with thioglycerol as fuel for near-UV light-emitting diodes	Volume 38 Issue 11	ISSN: 1522-7235E- ISSN: 1522-7243	Scopus
14	Sept 2023	Prof. M. A. Patwardhan	Journal of Indian Water Works Association (UGC CARE)	Automation of Drinking Water Treatment Plant using Arduino UNO: A Prototype	Volume 55 Issue 03	0970-257X	Scopus
15	December,2023	Prof. D. P. Chopade	Tuijin Jishu/Journal of Propulsion Technology	Advancing Power Quality: A Multilevel Inverter-Based Shunt Hybrid Active Filter for Optimal Performance in Distribution Systems	Vol.44 No. 6	ISSN: 1001-4055	Scopus
16	July-September2023	Prof. D. P. Chopade	INDIAN JOURNAL OF TECHNICAL EDUCATION	Energy Audit and Energy Conservation Potential of Medical College	46,no.3	ISSN 0971-3034	Scopus
17	March2024	Prof. D. P. Chopade	Journal of Information and Optimization Sciences	Low rank sparse coefficient based nuchal translucency image denoising	Vol.45 Issue-2	ISSN: 2169-0103	Scopus
18	Sept-2023	Prof. Dr. S. S. Jadhav	Polymer-Carbonaceous Filler Based Composites for Wastewater Treatment (Indexing: Scopus)	Polymer-Activated Carbon Composites for Wastewater Treatment		9781003328094	Scopus
19	Sep-2023	Prof. Dr. S. S. Jadhav	International Journal of Environmental Analytical Chemistry (Indexing: SCI, Scopus)	Microbial Consortia for industrial waste bioremediation: an insight to related patents	Vol.103 Issue 19	0306-7319	Scopus
20	Sept 2023	Prof. Dr. S. S. Jadhav	Activated Charcoal for Environmental Sustainability (Indexing: Scopus)	The Use of Activated Charcoal for Environmental Protection and Remediation		979-8-88697-916-9	Scopus

21	Sept-2023	Prof. K.B.Naik wadi	Fake News Detection	International Journal on Recent and Innovation Trends in Computing and Communication	Volume: 11	2321-8169	
22	Sept-2023	Prof. Dr. M. K. Kapse	Fake News Detection	International Journal on Recent and Innovation Trends in Computing and Communication	Volume: 11	2321-8169	


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2	Nov, 2023	Prof. Dr. A. M. Pawar	IEEE conference Proceedings	Music Generation using RNN-LSTM with GRU			Scopus
3	2024	Prof. Dr. A. M. Pawar	E3S Web of Conferences	Transparency in Algorithmic Decision-making: Interpretable Models for Ethical Accountability	491, 02041		Scopus

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Paper Presentation/Publication by Staff

Sr. No.	Name of the Teacher(s)/ Author	Title of the Paper	Name of the Journal/Proceeding	Year
1	Prof. Dr. A.M. Pawar	Experimental Investigation on the effect of optimized dimethyl carbonate on CI engine performance and emissions at various engine operating parameters using Taguchi method	AIP conference proceeding (Indexing: Scopus)	2021-22
2	Prof. Dr. A.M. Pawar	CFD and Experimentation on Heat Transfer Enrichment in Receiver Tube for Parabolic Trough Collector.	Test Engineering and Management (Indexing: Scopus)	2019-20
3	Prof. Dr. A.M. Pawar	Synthesis of Biofunctionalized Nanofibers (Curcumin, Gelatin and Formic Acid) using Electrospinning Process and Optimization of Parameters for Diameter of Nanofibers.	International Journal of Innovative Technology and Exploring Engineering (IJITEE) (Indexing: Scopus)	2019-20
4	Prof. Dr. A.M. Pawar	Heat Transfer Enhancement of Receiver Tube with Twisted Tape Inserts and Vortex Generator at Different Orientation using CFE Analysis.	International Journal of Advanced Science and Technology (Indexing: Scopus)	2019-20
5	Prof. Dr. A.M. Pawar	Multiphysics Simulation and Experimental Validation of ECM Drilling Process	International Journal of Emerging Technologies and Innovative Research (JETIR) (An International Open Access Journal) UGC Approved Journal No. 63975	2019
6	Prof. Dr. A.M. Pawar	Challenges in Electrochemical Machining	Research Review International Journal of Multidisciplinary JPUBLICATION UGC Approved Journal No. 44945	2019

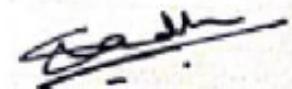
7	Prof. A. M. Pawar	Innovative Approaches to Improve Electrochemical Machining Performance”	Journal of Aerospace Engineering and Technology (Jo AET)”	2017-18
8	Prof. Dr. A.M. Pawar	Synthesis of Biofunctionalized Nanofibers (Curcumin, Gelatin and Formic Acid) using Electro spinning Process and Optimization of Parameters for diameter of Nan fibers	International Journal of Innovative Technology and Exploring Engineering (IJITEE) (Indexing: Scopus)	2019
9	Prof. Dr. A.M. Pawar	Optimization of Parameters for diameter of Nan fibers and FTIR, XRD Characterization for Synthesized Biofunctionalized Nan fibers (Curcumin, Gelatin and Formic Acid) using Electro spinning Process	International Journal on Recent Technologies in Mechanical and Electrical Engineering (IJRMEE) UGC Approved Journal	2019
10	Prof. Dr. A.M. Pawar	Cook hiring web application: Book A Cook	International Journal of Research in Electronics AND Computer Engineering (IJRECE) UGC Approved Journal	2019
11	Prof. Dr. A.M. Pawar	Text Summarizer using NLP (Natural Language Processing)	Journal of Computer Technology & Applications (JoCTA)	2021
12	Prof. Dr. A.M. Pawar	Design and Validation for Mounded Liquid RGP/Propane Storage Bullets by using FEA	Proceedings of PICETE 2008	2008
13	Prof. Dr. A.M. Pawar	Development and Verification of Material Plasma Exposure Concepts	International Journal of New Practices in Management and Engineering	2020
14	Prof. Dr. A.M. Pawar	Simulation And Experimental Validation Of ECM Drilling	International Congress on Engineering And Technology 2019, Pune India.	2019
16	Prof. Dr. A.M. Pawar	Role of Photolithographic Process in Semiconductor Manufacturing	International Journal of New Practices in Management and Engineering	2022
17	Prof. Dr. A.M. Pawar	Study of Various Forecasting Models for Time Series Data, Using Stochastic Processes	Journal of Computer Technology & Applications (JoCTA)	2021
18	Prof. Dr. S.S. Jadhav	Microbial consortia for industrial waste bioremediation: an insight to related patents	International Journal of Environmental Analytical Chemistry (Indexing: SCI, Scopus)	2021

19	Prof. Dr. S.S. Jadhav	Waste Water treatment: A bibliometric study of Scopus and web of science publications	Library Philosophy and Practice	2021
20	Prof. Dr. S.S. Jadhav	Elimination of cationic azo dye from aqueous media using doped polyaniline (PANI): Adsorption optimization and modelling	Canadian Journal of Chemistry (Indexing: SCI, Scopus)	2020
21	Prof. Dr. S.S. Jadhav	Batch and column studies on the use of doped Polymer for the removal of (Sodium 4-{[4-(dimethyl amino) phenyl] diazenyl} benzene-1-sulfonate) from wastewater	International Journal of Environmental Analytical Chemistry (Indexing: SCI, Scopus)	2020
22	Prof. Dr. S.S. Jadhav	Adsorptive eradication of tartrazine from aqueous solutions onto doped polyaniline.	Journal of the Serbian Chemical Society (Indexing: Scopus, WOS)	2019-20
23	Prof. Dr. S.S. Jadhav	Polyaniline for removal of Methyl orange dye from waste water	International Journal of Science Engineering and Management	2016
24	Prof. Dr. S.S. Jadhav	Synthesis and characterization of conducting poly N-ethyl aniline doped with organic acids	Journal of Chemical and Pharmaceutical Research	2014
25	Prof. Dr. S.S. Jadhav	A method and composition for purification of textile wastewater	Proceedings of Conference on IPR, Patents, Copyrights Innovations and Startups 2020	2021
26	Prof. Dr. S.S. Jadhav	A method and composition for purification of textile wastewater by acid doped polyaniline (PANI)	Proceedings of Conference on IPR, Patents, Copyrights Innovations and Startups 2020	2021
27	Prof. Dr. S.S. Jadhav	Removal of azo dyes from wastewater using polyaniline: A Review	Proceedings of 4 th International Science Congress, Coimbatore, India.	2013
28	Prof. Dr. S.S. Jadhav	Polyaniline for removal of Methyl orange dye from waste water	Proceedings of World congress on Applied Science Engineering and Technology, Goa, India	2016
29	Prof. Dr. S.S. Jadhav	Polyaniline for the removal of sulphonated azo dye	Proceedings of National conference on Technical Revolution NCTR-2017, Pune, India	2017

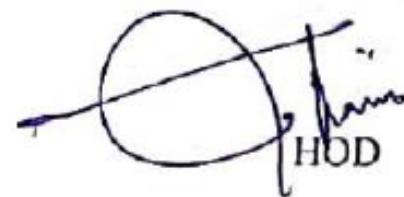
30	Prof. Dr. S.S. Jadhav	Polyaniline for the removal of a toxic Azo dye using Column studies	Proceedings of National conference on Technical Revolution NCTR-2019, Pune, India	2019
31	Prof. Dr. H. V. Vankudre	Analysis of Digital X-ray for mapping of Pixel values using MATLAB image processing tool	International Journal on Communications Antenna and Propagation (I. Re. C.A.P.)	2017-18
32	Prof. Dr. H. V. Vankudre	Numerical and Experimental Studies on Stress Analysis of Customized Implant	International Review of Mechanical Engineering (IREME)	2017-18
33	Prof. D. P. Chopade	Design and Manufacturing process of small-scale water turbine by using RPRT for energy harvesting	International Journal of research publication Engg. & Tech. Novateur Publications organized by Novateur Publications	2016-17
34	Prof. M. A. Patwardhan	Assessment of Reservoir Sedimentation in Panshet Reservoir by Hybrid Method	International Journal of Pure and Applied Research in Engineering and Technology	2015-16
35	Prof. N. N. Chavan	Assessment of Reservoir Sedimentation in Panshet Reservoir by Hybrid Method	International Journal of Pure and Applied Research in Engineering and Technology	2015-16
36	Prof. N. N. Chavan	Evaluation loss of capacities due to sedimentation in reservoirs by Hybrid method	International Journal of Advanced research In Engineering and Technology (IJARET)	2014-15
37	Prof. U. S. Zope	Micro hydro power turbine design	International Journal Of scientific and Engg. Research (IJSER)	2014-15
38	Prof. U. S. Zope	Design and Manufacturing process of small-scale water turbine by using RPRT for energy harvesting	International Journal of research publication in Engg. & Tech. Novateur Publications Novateur Publications	2016-17
39	Prof. M. A. Patwardhan	Synthesis and photoluminescence Study of $Y_2O_3:Eu^{3+}$ and $Y_2-y-xALyO_3:Eu^{3+}$ Nano phosphor	International Journal of Nano science and Nanotechnology	2014-15

40	Prof. Dr. D. S. Bilgi	Analysis of Electrochemical Machining Process parameters affecting Material Removal Rate of Hastelloy.	International Journal of Advanced Research in Engineering and Technology (IJARET)	2013-14
41	Prof. Dr. D.S. Bilgi	Experimental Investigation on MRR of Pulse Electrochemical machining (PECM) based on Taguchi Method	International Journal of Innovative Research in Science, Engineering and Technology	2013-14
42	Prof. M. A. Patwardhan	Synthesis and photoluminescence Study of $Y_2O_3:Eu^{3+}$, $YxAl^{2-x}O_3:Eu^{3+}$ nanophosphor	National Conference on Luminescence and Its Applications PES Institute of Technology, Bangalore, India	2012-13
43	Prof. Dr. D. S. Bilgi	Experimental Investigation of Ultrasonic Assisted Pulse Electrochemical Drilling for Inconel 718 with Rotary Tool	Innovation for sustainable Manufacturing Proceedings of the 4th International & AIMTDR-2012 Production Engineering Department, Jadavpur University Kolkata-700032	2012-13
44	Prof. D. P. Chopade	A statistical approach for the management of electrical energy consumption of an educational organization	Journal of Information and Optimization Sciences	2022
45	Prof. D. P. Chopade	Enhancing Wind Turbine Blade Strength Using Nano Technology	NANOCON 2018, Bharati Vidyapeeth University, bi-annual 4th International Conference on Nanotechnology	2018
46	Prof. D. P. Chopade	Passive Shunt Hormonic Filter for power quality improvement in Bharati Vidyapeeth Universities Dhankawadi Campus Pune, INDIA	ICT PEP-2021	2021
47	Prof. D. P. Chopade	Energy Audit and Conservation of Dental College-A case study	International conference on renewable energy potential for sustainable initiatives (REPSI-2022) (Indexing: WOS)	2022
48	Prof. D. P. Chopade	A statistical approach for the management of electrical energy consumption of an educational organization	International conference on renewable energy potential for sustainable initiatives (REPSI-2022) (Indexing: WOS)	2022

49	Prof. Y. D. Kute	Performance Testing of Multicylinder Compressed Ignition Engine with Dual Fuel Mode of CNG with Biodiesel and Diesel	International Journal of Vehicle Structures and Systems (Indexing: Scopus)	2022
50	Prof. S. R. Mitkari	Reconstructed Optimization Logic for the Secure Vaults with Arduino for the IoT Environment	International Journal of Intelligent Systems and Applications in Engineering (Indexing: Scopus)	2022
51	Prof. S. R. Mitkari	Weighted Hashing-Based Capture Text Similarity Estimation with the Cross-Media Semantic Level	International Journal of Intelligent Systems and Applications in Engineering (Indexing: Scopus)	2022
52	Prof. Dr. S. S. Jadhav	Role of bacteria for the Recovery of Precious Metals from E-waste	Microbial Technology for Sustainable E-waste Management (Springer)	2023
53	Prof. Dr. A. M. Pawar	Application of phase change material (PCM) in battery thermal management system (BTMS): A critical review	14 th International conference on Material Processing and Characterization (ICMPC2023)	2023



Prof. Dr. S. S. Jadhav



Prof. Dr. A. M. Pawar