

Bansilal Ramnath Agarwal Charitable Trust's
VISHWAKARMA INSTITUTE OF TECHNOLOGY, PUNE. 37
(An Autonomous Institute Affiliated to Savitribai Phule University of Pune)

Department of Mechanical Engineering

Research Data (Academic year 2019-20)

Year	Journal Publication (SCI Indexed) (I)	Journal Publication (Scopus Indexed) (II)	Journal Publication (others) (III)	Total (I+II+III) (Journal Publication) (IV)	Publications in Conference (V)	Book Chapter (VI)	Total publication (IV+V+VI)
2019-20	03	03	10	16	10	02	28

Journal Publications (Academic year 2019-20)

Sr. No	Title of the publication	First Author	Co-Author(s)	Name of the Journal	Indexed in	Date of publication	Volume	Edition No.	ISBN/ISSN/DOI
1	Crashworthiness aspects of electric vehicle design	A.B. Navale	S.P.Chippa , D.A. Chougule, P.M. Raut	International journal of crashworthiness	0.58 SCIE Index	30 Jan 2020	20	4	https://doi.org/10.1080/13588265.2020.1718462
2	Prediction of HVAC cool-down performance inside a minibus passenger cabin using CFD and its experimental validation	Nikhil Mhetre	Suraj Sathyanarayan, Manoj Diwan, Siddarth Kumar, D.B. Hulwan	S-JPSET	-	20 July 2019	11	1	2229-7111,2454-5767
3	Mechanical properties of Banana fabric and Kenaffiber reinforced epoxy composite: Effect of treatment and hybridization	Aniket A Terwadkar	M V Walame	International Journal of innovative technology and exploring engineering	-	August 2019	8	10	2278-3075
4	An experimental study of a multi-orifice synthetic jet with application to	Harekrishna Yadav	M.B. Chaudhari , Ajinkya Joshi, Amit Agarwal	AIP-Advances	1.579 Scopus	9 December 2019	9	-	

	cooling of compact devices								
5	State-of-the-art advancements in studies and applications of grapheme: a comprehensive review	Pratik Walimbe	M.B. Chaudhari	Materials Today Sustainability	24.372 Scopus	December 2019	6	-	
6	Application of a Particle Damping Technique on Wind Turbine Rotor by Filling of 90 Percent Balls	Santosh R Sandanshi v	U.S. Chavan	International Journal of Innovative Technology and Exploring Engineering (IJITEE)	-	September 2019	8	11	3020-3025
7	Effect of Particle Damping Technique on 1 kW Wind Turbine Blade using 3 mm Balls	Santosh R Sandanshi v	U.S. Chavan	International Journal of Innovative Technology and Exploring Engineering (IJITEE)	-	September 2019	8	11	2494-2498
8	Vibration suppression effects on rotating wind turbine blade using a particle damping method	Santosh R Sandanshi v	U.S. Chavan	VIBROENGINEERING PROCEDIA	-	November 2019	29	43-48	

9	Effect of change in position of particle dampers on wind turbine blade for vibration suppression	Santosh R Sandanshi v	U.S. Chavan	VIBROENGINEERING PROCEDIA	-	November 2019	29	32-42	
10	Failure Analysis of Strap Joint	Minakshee R. Shinde	U.S. Chavan, Kishor P. Deshmukh	International Journal of Innovative Technology and Exploring Engineering (IJITEE)	-	August 2019	8	10	2278-3075
11	Design, Analysis and Experimental Testing of Composite Leaf Spring for Application in Electric Vehicle	Mayur D. Teli	U.S. Chavan, Haribhau G. Phakatkar	International Journal of Innovative Technology and Exploring Engineering (IJITEE)	-	July 2019	8	9	2278-3075
12	All solid-state asymmetric supercapacitor based on Ni.Co layered double hydroxide and rGO nanocomposite	P. E. Lokhande.	U.S. Chavan	Journal of Electrochemical Energy Conversion and Storage	1.515 (SCI INDEXED)	January 2020	17	3	https://doi.org/10.1115/1.4045977

	deposited on Ni foam								
13	Surfactant free chemically deposited wheat spike-like nanostructure on Cu foam for supercapacitor applications	P.E.Lokhande	U.S.Chavan Sonal Deokar , MukulIngale , Suraj Bhosale , Subodh Kale , Akshay Kamte	Materials Today: Proceedings	0.694 Scopus	August 2019	18	3	https://doi.org/10.1016/j.matpr.2019.06.537
14	Materials and fabrication methods for electrochemical supercapacitor: Overview	Prasad Eknath Lokhande	Umesh S. Chavan , Abhishek Pandey	Electrochemical Energy Reviews	Open Access Chemical Abstracts Service (CAS), EBSCO Discovery Service, Google Scholar	December 2019	3	-	
15	Effect of Epoxy Glass Fiber Reinforcement on Dynamic Characteristics of Sheet Metal Structure	Sankalp.U . Joshi	Nishant.S.K ulkarni	International Journal of Innovative Technology and Exploring Engineering (IJITEE)	-	August 2019	Volume-8	Issue-10	ISSN: 2278-3075,

16	NEAR DRY ROTARY ELECTRICAL DISCHARGE DRILLING OF AL METAL MATRIX COMPOSITES	Pankaj Gaigole	B. Rajiv	Journal of Manufacturin g Technology Research	-	2019	Volume- 11	Issue-2	ISSN: 1943- 8095
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Conference Publications (Academic year 2019-20)

Sr. No	Title of the publication	First Author	Co-Author(s)	Name of the Conference	National/ International	Date of the conference	Venue of conference
1	Thermo-hydrodynamic analysis of journal bearing including surface roughness	N.V.Borse	S.P.Chippa	10 th International conference on Industrial tribology (IndiaTrib-2019)	International	1 – 4 December 2019	IISc Bangalore
2	Transient elasto hydrodynamic analysis of finite line contact under load impulse	S.P. Chippa	N.V.Borse	10 th International conference on Industrial tribology (IndiaTrib-2019)	International	1 – 4 December 2019	IISc Bangalore
3	Effect of injection configuration scramjet performance	Girish Barpande	Amarjit Singh, S. Pavitran	ICONAMMA 2019	International	29th – 31st August, 2019.	Amrita School of Engineerin

							g, Bangalore , India,
4	Experimental investigation of Solar drying characteristics of grapes	S.P. Komble	-	ICAER 2019	International	10 - 12 th December 2019	IIT Bombay
5	Numerical investigation of heat transfer and fluid flow characteristic in wavy minichannels	S M Gaikwad	M K Nalawde	3 rd International ISHMT heat and mass transfer conference (IHMTTC – 2019)	International	28 – 31 December 2019	IIT Roorkee
6	Effects of Process parameter change in EDM of super alloys	Ganesh Dongre	-	<u>ABMSAHT-2020</u> “Approaches and Benefits of Morden smart agriculture and Health sensing systems”	National	January 23- 24, 2020	Sanjivani College of Engineerin g Kopargao n
7	Throughput and Bot Error Rate Enhancement of Polar Code based OFDM HARQ System for DVB application in 5G	Ganesh Dongre	Makrand Jadhav	International Conference on Industry 4.0 Technology	International	13-Feb to 15-Feb 20	VIT Pune
8	Integrated apple pludang and cutting of stalk mechanism	Ganesh Dongre	-	<u>ABMSAHT-2020</u> “Approaches and Benefits of Morden smart agriculture and Health sensing systems”	National	January 23- 24, 2020	Sanjivani College of Engineerin g Kopargao n

9	Simultaneous Optimization of Machining Process Parameters of Near-Dry Rotary EDM Using Grey Relational Analysis	Pankaj Gaigole	B. Rajiv	<u>Optimising Methods in Engineering</u>	International	06-Jun-20	
10	Analysis of Driving & Dependence Power of Factors Influencing Industry 4.0 Adoption in Healthcare	Ramkrishna Bharsakade	Padmanav Acharya, L. Ganapathy	International Conference on Industry 4.0 Technology (I4Tech)	International	13-Feb to 15-Feb 20	VIT Pune

(List of Book Chapters)

Sr. No.	Book Title	Chapter number and Name	First Author	Co-authors	Publisher	Publication Year	ISBN/ISSN No/DOI
1	Conducting Polymer based energy storage devices	7. Conducting polymer derived materials for supercapacitor	P.E. Lokhande	U.S. Chavan	Taylor and Francis	Dec 2019	eBook ISBN 9780429202261 DOI:10.1201/9780429202261-7
2	Advances in Energy Research	Copper oxide Synthes on CU foam by chemical bath deposition with surfactant for supercapacitor	Prasad Lokhande	Umesh S. Chavan, S. V. Deokar, Mukul Ingale, Himanshu Khadase	Springer Proceedings in Energy	08 May 2020	DOI:10.1007/978-981-15-2666-4_34