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**

Year	Journal	Journal	Journal	Total	Publications in	Book Chapter	Total
	Publication	Publication	Publication	(I+II+III)	Conference	(VI)	publication
	(SCI Indexed)	(Scopus	(others)	(Journal	(V)		(IV+V+VI)
	(I)	Indexed)	(III)	Publication)			
		(II)		(IV)			
2022-23	06	23	18	47	7	1	54

Research Data (Academic year 2022-23)

Sr. No.	Faculty	Title of the	Journal	Publisher	DOI	Index
		paper				type
		Performance				
		Testing of				
		Multicylinder				
		Compressed				
		Ignition				
		Engine with				
		Dual Fuel		MECHAEROFOUND		
	10439:	Mode of	International	A T I O N FOR		
	DATTATR	CNG with	Journal of	TECHNICAL RESEARCH	http//ww	
	AY BAPU	Biodiesel and	Vehicle	AND EDUCATION	w.maftre	
1	HULWAN	Diesel	Structures	EXCELLENCE	e.org/eja	Scopus
		Recent				
		advancements				
		in synthesis,				
		rheological				
		characterizati				
		on, and				
		tribological				
		performance			https://do	
	10439:	of vegetable			i.org/10.	
	DATTATR	oil-based	Journal of		1016/j.jcl	
	AY BAPU	lubricants	Cleaner		epro.202	
2	HULWAN	enhanced	Production	ELSEVIER	2.134454	SCI

Journal Publications (Academic year 2022-23)

		with				1
		nanoparticles				
		-				
		for				
		sustainable				
		lubrication				
		Investigating				
		the Effect of				
		Compression				
		Ratio on				
		Operating				
		Characteristic				
		s of				
		Compression				
		Ignition				
		Engine				
		Fueled with			https://li	
		Diesel			nk.spring	
		Ricebran			er.com/ar	
	10439:	Biodiesel n	Journal of The		ticle/10.1	
	DATTATR	Butanol	Institution of		007/s400	
	AY BAPU	Additive	Engineers India		34-022-	
3	HULWAN	Blends	Series E	Institution of Engineers	00264-2	Scopus
-	10031:				552512	200pub
	SUNIL	AUTO-				
	DATTATR	PROVOKIN				
	AY	G FIRE	European			
	CHOUGUL	SUPPRESSI	Chemical			
4	E	ON SYSTEM	Bulletin	European Chemical Bulletin	0	Scopus
		Experimental				
	10036:PROF	Analysis of				
	. PATKI	SS using				
5	NITIN	Brass	Materials Today	Elsevier	NIL	Scopus

	BHALCHA	Electrode in				
	NDRA	Electric				
		Discharge				
		Machining				
		#				
		TORSIONAL				
		TUNED				
		MASS				
		DAMPER				
		SYSTEM				
		PARAMETE				
		R			https://ie	
		IDENTIFICA			eexplore.	
	10037:	TION WITH			ieee.org/	
	MAHESH	EXPERIME			documen	
	VISHNU	NTAL			t/985314	
6	WALAME	METHOD	IEEE	IEEE	2	Scopus
		Influence of				
		Different				
		Parameters				
		on the				
		Specific				
		Wear Rate of				
	10037:	PTFE				
	MAHESH	Composites			discover	
	VISHNU	in the Steam			@morres	G
7	WALAME	Environment	IOP science	IOP science	sier.com	Scopus
	10005	N EFFECT	- · · ·		https://w	
	10037:	OF	International		ww.ijrte.	
	MAHESH	FABRICATE	Journal of	Blue Eyes Intelligence	org/portf	
	VISHNU	D TWIN	Recent	Engineering and Sciences	olio-	
8	WALAME	ROLLER	Technology and	Publication (BEIESP)	item/E74	others

		ARRANGE	Engineering		2901115	
		MENT OF	(IJRTE)		23/	
		CHASSIS			23/	
		DYNAMOM				
		ETER ON				
		MEASUREM				
		ENT OF				
		PERFORMA				
		NCE				
		PARAMETE				
		RS OF				
		ELECTRIC				
		TWO				
		WHEELERS				
		N NEELERS				
		INFLUENCE				
		OF				
		DIFFERENT				
		PARAMETE				
		RS ON				
		SPECIFIC				
		WEAR				
		RATE OF				
		PTFE			https://w	
		COMPOSITE			https://w	
	10037:	S IN THE			ww.resea	
	MAHESH	STEAM			rchgate.n et/public	
	VISHNU	ENVIRONM			ation/366	
9	WALAME	ENVIRONM	IOP science	IOP science	664162	Scopus
7	WALANE	N Torsional			https://ie	Scopus
	10037:	Tuned Mass				
10	MAHESH		IEEE	IEEE	eexplore.	Scopus
10	MARESR	Damper	ILLE		ieee.org/	Scopus

	VISHNU	System			documen	
	WALAME	Parameter			t/985314	
		Identification			2	
		with				
		Experimental				
		Method				
		COMPARAT				
		IVE STUDY				
		OF				
	10357:	CONVENTI				
	RAJKUMA	ONAL AND		International journal for		
	R KISHOR	GENERATI		research in applied science	www.ijra	
11	BHAGAT	VE DESIGN	IJRASET	and engg tech	set.com	others
		N Issues				
		related to the				
		numerical				
		simulation of				
		herringbone	Proceedings of			
		grooved	the Institution of			
	10438:	journal	Mechanical		https://do	
	SHRINIVA	bearing	Engineers, Part		i.org/10.	
	S	including	J: Journal of		1177/135	
	PANDURA	cavitation	Engineering		0650121	
12	NG CHIPPA	condition	Tribology	SAGE	10625	SCI
	10529:	"Kinematic				
	GANESH	Analysis of				
	DATTATR	compliant				
	AYA	slider Crank	GIS SCIENCE			
13	KORWAR	Mechanism"	JOURNAL	GIS SCIENCE JOURNAL	0	Scopus
	10529:	Self powered				
	GANESH	MEMS				
14	DATTATR	sensor system	ICCAKM-2022	IEEE	0	Scopus

	AYA	for				
	KORWAR	monitoring of				
		ocean				
		parameters				
					https://li	
					nk.spring	
	10563:	Design and	Transactions of		er.com/ar	
	MANGESH	Analysis of	the Indian		ticle/10.1	
	BHAURAO	Stabilizing	National		007/s414	
	CHAUDHA	Ambulance	Academy of		03-022-	
15	RI	Stretcher	Engineering	Springer	00356-w	Scopus
					Krishna	
					Jaiswal	
		An Edge			et al	
		Blending to			2022	
		Enhance the			IOP	
		Flow Over			Conf.	
		Double delta	IOP Conf.		Ser.:	
	10644:	wing	Series:		Mater.	
	SHINDE	configuration	Materials		Sci. Eng.	
	SUNIL	during re-	Science and	IOP Conf. Series: Materials	1272	
16	SHYAM	entry	Engineering	Science and Engineering	012018	Scopus
		LONG				
		RANGE SPY				
	10644:	ROBOT				
	SHINDE	WITH	Intof Innovative			
	SUNIL	NIGHT	research in		www.ijir	
17	SHYAM	VISION	Technology-	IJIRT	t.com	others
	10644:		International			
	SHINDE	Heat transfer	Journal of All	International Journal of All		
	SUNIL	in Triangular	Research	Research Education and	www.ijar	
18	SHYAM	Fins	Education and	Scientific Methods	esm.com	others

			Scientific			
			Methods			
		Design of	International			
	10644:	Orthosis to	Journal of			
	SHINDE	assist patients	Innovative			
	SUNIL	with wrist	Research in		www.ijir	
19	SHYAM	fracture	Technology	IJIRT	t.com	others
-		Numerical				
		Model for				
		Solar Drying				
		Mechanism				
	10754:	of Grapes				
	SACHIN	Using Double			www.onl	
	PRABHAK	Glazed	Journal of Food		inelibrar	
	AR	Cabinet Type	Process		y.wiley.c	
20	KOMBLE	Solar Dryer	Engineering	Wiley	om	SCI
		Design and				
		investigation				
		on rain				
	10754:	saucer: The				
	SACHIN	technique of				
	PRABHAK	roofless				
	AR	rainwater	Materials Today			
21	KOMBLE	harvesting	Proceedings	Elseveir	0	Scopus
		Mathematical				
		modeling of				
		drying				
	10754:	characteristic				
	SACHIN	s for				
	PRABHAK	cylindrical	Journal of Food			
	AR	Thompson	Process		www.wil	
22	KOMBLE	seedless	Engineering	Wiley	ey.com	SCI

		grapes under				
		natural				
	10754	convection	THED			
	10754:		TIJER -			
	SACHIN	Review On	INTERNATIO			
	PRABHAK	Challenges of	NAL			
	AR	Electric	RESEARCH		www.tije	
23	KOMBLE	Vehicle	JOURNAL	TIJER	r.org	others
	10754:		TIJER -			
	SACHIN	Topology	INTERNATIO			
	PRABHAK	Optimization	NAL			
	AR	of Bell Crank	RESEARCH		www.tije	UGC
24	KOMBLE	Lever	JOURNAL	TIJER	r.org	Care
					https://on	
		A Global			linelibrar	
		Scenario of			y.wiley.c	
		Sustainable			om/doi/b	
	11224:	Technologies			ook/10.1	
	UMESH	and Progress	Biodiesel		002/9781	
	SOMALU	in a Biodiesel	Technology and	Wiely-Scrivener Publishing	1197249	
25	CHAVAN	Production	Applications	LLC	57	Scopus
20		Hierarchical	rippiloutions		57	Deepus
		ultrathin				
		nanosheet of				
		Ni(OH)2/rGO			https://w	
		composite			-	
		-			ww.espu blisher.c	
	11224.	chemically				
	11224:	deposited on			om/journ	
	UMESH	Ni foam for	ES materials		als/articl	
0.0	SOMALU	NOx gas	and	Engineered Science Publisher	edetails/	a
26	CHAVAN	sensors	Manufacturing	LLC	721	Scopus

		Analysis for				
		Effect of				
		Optimized				
		1				
	11004	Air Drag				
	11224:	Braking	F1			
	UMESH	System on the	Elsevier			
	SOMALU	Drag Force of	Materials Today			~
27	CHAVAN	Vehicle	Proceedings	Elsevier	na	Scopus
		Lithium ion				
		battery				
		thermal				
		management				
	11224:	by using heat				
	UMESH	pipe coupled				
	SOMALU	and liquid	Materials Today			
28	CHAVAN	cold plate	Proceedings	Elsevier	na	Scopus
		Development				
		of compact			https://do	
	11224:	packaging			i.org/10.	
	UMESH	machine for	Journal of		37896/jx	
	SOMALU	small	Xidian		u17.2/05	
29	CHAVAN	industries	University	Journal of Xidian University	1	others
			INTERNATIO			
		Plastic zone	NAL			
		analysis of	JOURNAL			
		SS316L and	FOR		https://do	
		Ti6Al4V	COMPUTATIO		i.org/10.	
	11224:	materials	NAL		1080/155	
	UMESH	under mixed	METHODS IN		02287.20	
	SOMALU	mode loading	ENGINEERIN		21.19925	
30	CHAVAN	conditions-	G SCIENCE	Taylor and Francis	42	SCI

			AND			
			MECHANICS			
		Nickel hydroxide				
		nanosheets grown on				
		nickel foam			https://do	
		for high			i.org/10.	
	11224:	performance			1080/106	
	UMESH	supercapacito	MATERIALS		67857.20	
31	SOMALU	r	TECHNOLOG Y	Taylor	21.18736 36	SCI
51	CHAVAN	applications- Lithium ion	I	Taylor	30	SCI
		battery				
		thermal				
		management			https://	
		by using			doi.org/1	
	11224:	coupled heat			0.1016/j.	
	UMESH	pipe and	Materials		matpr.20	
	SOMALU	liquid cold	Today:		22.10.18	
32	CHAVAN	plate-	Proceedings	Elsevier	5	Scopus
		Investigation	3rd International			
		of Effect of	Conference on			
		Mass on	Computational			
	11224:	Performance of Suspension	and		https://do	
	UMESH	of Suspension System using	Experimental Methods in		https://do i.org/10.	
	SOMALU	Quarter Car	Mechanical		1.01g/10. 1063/5.0	
33	CHAVAN	Test Rig-	Engineering	AIP Conference Proceedings	1003/3.0	Scopus
		Magnification	IOP Conf.		10.1088/	
	11224:	of energy	Series:	IOP Conf. Series: Materials	1757-	
34	UMESH	transmission	Materials	Science and Engineering	899X/12	Scopus

	SOMALU	ratio using	Science and		72/1/012	
	CHAVAN	miniature	Engineering		017	
		cycloidal gear	0 0			
		box for				
		humanoids-				
		Design and				
		analysis of	IOP Conf.		10.1088/	
	11224:	energy	Series:		1757-	
	UMESH	efficient wind	Materials		899X/12	
	SOMALU	turbine	Science and	IOP Conf. Series: Materials	72/1/012	
35	CHAVAN	blades-	Engineering	Science and Engineering	020	Scopus
		Study of LCF				
		behaviour				
		and life				
		estimation				
		based on				
		modified				
		SWT model	IOP Conf.		doi:10.10	
	11224:	and enhanced	Series:		88/1757-	
	UMESH	strain energy	Materials		899X/12	
	SOMALU	density of Ti-	Science and	IOP Conf. Series: Materials	72/1/012	
36	CHAVAN	6Al-4V ELI-	Engineering	Science and Engineering	027	Scopus
		Experimental				
		studies on			https://do	
	11224:	carbon			i.org/10.	
	UMESH	nanotube	Materials		1016/j.m	
	SOMALU	strain	Today:		atpr.2023	
37	CHAVAN	sensors-	Proceedings	Elsevier	.03.383	Scopus
		Review on				
	10492:	Antilock			http://ym	
	LAXMIKA	Breaking			erdigital.	
38	NT	System	YMER	YMER	com/curr	others

	DADARAO				ent-	
	MANGATE				issue/	
	MANUATE	Davalonment			18800/	
		Development of Livestock				
		Healthcare				
	10.402	Management			1 //	
	10492:	System using			http://ym	
	LAXMIKA	Heartbeat			erdigital.	
	NT	Sensor and			com/curr	
	DADARAO	Temperature			ent-	
39	MANGATE	Sensor	YMER	YMER	issue/	others
	10492:				http://ym	
	LAXMIKA	Energy			erdigital.	
	NT	Harvesting			com/curr	
	DADARAO	From Speed			ent-	
40	MANGATE	Breaker	YMER	YMER	issue/	others
	10492:				http://ym	
	LAXMIKA	Smart Water			erdigital.	
	NT	Quality			com/curr	
	DADARAO	Detection			ent-	
41	MANGATE	System	YMER	YMER	issue/	others
					https://w	
					ww.ijras	
					et.com/re	
					search-	
	10492:				paper/ge	
	LAXMIKA				sture-	
	NT	Gesture			replicatio	
	DADARAO	Replication			n-robo-	
42	MANGATE	Robo Arm	IJRASET	IJRASET	arm	others

		Portable				
	11220:KET	design of an				
	KI	automated				
	AKSHAY	Pneumatic			http://ym	
	SHIRBAVI	bending			erdigital.	
43	KAR	machine	YMER	YMER	com	others
	11220:KET	Study of				
	KI	variation of				
	AKSHAY	aspect ratio of			http://ym	
	SHIRBAVI	Savonius			erdigital.	
44	KAR	Rotor	YMER	YMER	com	others
					https://ia	
					rjset.com	
	11220:KET				/issues/v	
	KI				olume-9-	
	AKSHAY	Design of		International Advanced	issue-11-	
	SHIRBAVI	Centrifugal		Research Journal in Science,	novembe	
45	KAR	Pump	IARJSET	Engineering and Technology	r-2022/	others
					https://ia	
					rjset.com	
					/papers/r	
	11220:KET				eview-	
	KI	Review of			of-home-	
	AKSHAY	Home		https://iarjset.com/papers/revi	automati	
	SHIRBAVI	Automation		ew-of-home-automation-	on-	
46	KAR	Systems	IARJSET	systems/	systems/	others
					https://iji	
	11220:KET	Modelling	INTERNATIO		rt.org/ma	
	KI	and Analysis	NAL	INTERNATIONAL	ster/publi	
	AKSHAY	of C-D	JOURNAL OF	JOURNAL OF	shedpape	
	SHIRBAVI	Nozzle Using	INNOVATIVE	INNOVATIVE RESEARCH	r/IJIRT1	
47	KAR	CFD	RESEARCH IN	IN TECHNOLOGY	59600_P	others

	TECHNOLOG Y	APER.pd f	
	1	1	

Conference Publications (Academic year 2022-23)

Sr. No.	Faculty	Title of the paper	Conference
		Review Paper on Design	
	10529: GANESH	Parameters of Pressure	
	DATTATRAYA	Dam Bearing Tilting Pad	
1	KORWAR	Bearing	conference
			NTERNATIONAL
			CONFERENCE ON
			INTELLIGENT ROBOTICS,
	10529: GANESH	Design and development of	MECHATRONICS AND
	DATTATRAYA	rover with pick and place	AUTOMATION SYSTEMS
2	KORWAR	mechanism	(IRMAS 2023)
			2022 Fourth International
		Investigation of Different	Conference on Emerging
	10754: SACHIN	Regression Models For The	Research in Electronics,
	PRABHAKAR	Predictive Maintenance of	Computer Science and
3	KOMBLE	Aircraft's Engine	Technology (ICERECT
	11224: UMESH	Plastic zone analysis of	International Journal for
4	SOMALU CHAVAN	SS316L and Ti6Al4V	Computational Methods in

		materials under mixed	Engineering Science and
		mode loading conditions	Mechanics
		Nickel hydroxide	
		nanosheets grown on nickel	
		foam for high performance	
	11224: UMESH	supercapacitor applications,	
5	SOMALU CHAVAN	materials technology	Materials Technology
		APPLICATION OF SMED	
		(SINGLE MINUTE	International Conference on
	10131: MUKUND	EXCHANGE OF DIE)	Industrial Production and
6	KERBA NALAWADE	FOR CNC MACHINE	Systems Engineering
		"A Comprehensive Review	
		on Topology Optimization	
		and Modal Analysis of	National Conference in
	10529: GANESH	Base Frame of Diesel	Mechanical Engineering:
	DATTATRAYA	Engine Driven Twin Screw	Advances in Material and
7	KORWAR	Compressor"	Design (NCMEAMD-2022)

(List of Book Chapters)

Sr. No.	Faculty	Title of the	book	Publisher	doi	Index
		paper				type
					https://on	
					linelibrar	
		New-			y.wiley.c	
		generation			om/doi/b	
	11224:	materials for	Flexible		ook/10.1	
	UMESH	flexible	Supercapacitor		002/9781	
	SOMALU	supercapacito	Nanoarchitecton	Wiely- Scrivener Publishing	1197114	
	CHAVAN	rs	ics	LLC	69	
1						NA