

## DR. NAVINCHANDRA GOPAL SHIMPI

Professor

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## **Citations- 1100**

h index-19

i 10 index- 37

#### **Educational qualification**

Degree	Year	Name of University/Board	Subject	Class	
S.S.C	1994	Nasik Divisional Board, Nasik	Chemistry, Physics and	I <sup>st</sup>	
			Mathematics		
H.S.C	1996	Nasik Divisional Board, Nasik	Chemistry, Physics and	$\mathrm{II}^{\mathrm{nd}}$	
			Mathematics		
B. Sc	2000	North Maharashtra University,	Chemistry	$\mathbf{I}^{\mathrm{st}}$	
		Jalgaon			
M. Sc	2002	School of Chemical Sciences,	Chemistry with specialization in	I <sup>st</sup>	
		NMU, Jalgaon	Polymer Chemistry		
B. Ed	2003	North Maharashtra University,	Science and Maths	$I^{st}$	
		Jalgaon			
Ph.D.*	North Maharashtra University, Jalgaon Degree awarded on 12/12/2006				

### **Positions held**

Institution	Position	Duration
DSM's Art's, Commerce & Science College, Jintur, Dist.	Lecturer	Sept 06- July -07
Parbhani.		
College of Engineering and Technology, Bambhori,	Lecturer	July-07- to July-
Jalgaon		08
University Institute of Chemical Technology, NMU,	Assistant	Aug 08- April
Jalgaon. (Formally known as UDCT, Jalgaon)	Professor	2014
Department of Chemistry, University of Mumbai,	Associate	April 2014- till
Santacruz (E)	Professor	date

#### Thrust area of research

- > Nanomaterials and their functionalization.
- Biodegradable polymers and rubber nanocomposites
- Materials for gas sensing
- > Nanocatalysts and their applications in organic transformation reactions
- > Synthesis of carbon nanotubes and its functionalization
- Nanomaterials for effective degradation of dyes
- Synthesis of nanofibers and binary materials

# **Research projects completed and ongoing**

S. No	Name of funding agencies and letter no.	Title of the project	Project Cost (in Lacs)	Duratio n	Status
1.	DST, New Delhi (SR/FTP/ETA- 58/2008 dated January 19, 2009)	Development of Technique for, Synthesis of Nanoparticles using Ultrasonication and Its Influence on Mechanical, Thermal and Weather Resistance Properties of Polymer Nanocomposites	08.40	3 yrs	
2.	UGC, New Delhi (UGC/MRP/2009)	PBT PTT oligomerically nanocomposites	01.90	2 yrs	
3.	UGC/MRP/2010	Synthesisofpolymernanoparticlesitapplicationinbiodegradablepolymernanocompositespolymer	15.50	3 yrs.	Completed
4.	DRDO, New Delhi EPIPR/ER/0903780/M /01/ 1239	Synthesis,characterizationofcore-shellapplicationinpolymers.	19.95	3 yrs.	
5	CSIR, New Delhi 02(0023)/11/EMR – II/2012	Synthesis and Characterization of NanoscopicallyConfined PolymerConductingPolymerNanocomposites	16.54	3 yrs.	
6	MHRD, New Delhi & World Bank	TEQIP, Seed Money	04.00	2 years	
7	AICTE, New Delhi 11- 16/AICTE/RIFD/CAY T/POL-I/2013-14	AICTE Career Award for Young Teachers (CAYT)	9.00	3 yrs	
8	UGC, New Delhi (43-157/2014(SR))	Fabrication of functionalized nanomaterials for enhancement in activity of biodegradable polymers nanocomposites using vivo and vitro method	16.00	3 yrs	
9	ERIP/ER/1503214/M/ 01/1745	Green chemistry approach for the synthesis of smart nanostructures using ultrasonic cavitation technique with the study of particle formation mechanism and their application in speciality polymers	50.00	3 yrs	Ongoing
10	Indofil Industries Ltd, Thane	Development of novel nano additives	10.00	2 yrs	Completed

# Membership of professional societies

Life Member of-2. Indian Science Congress

## **Research guide**

# M. Tech (completed)-15 Ph. D (completed) - 13 Ph. D Thesis submitted- 00 Ph. D (ongoing)-06

Ph. D students		
	Degree awarded	
Mr. Ananda D. Mali	Studies on Effect of Nano Inorganic Fillers on Weather Properties of	
	Elastomers (Awarded)	
Ms. Tanushree Sen	Studies on Synthesis and Characterization of Conducting Polymer	
	Nanocomposites (Awarded)	
Mr. Mahesh D. Borane	Synthesis of Core-Shell Polymer Nanoparticles Using Micro emulsion	
	Technique and its Application in Biodegradable Polymers (Awarded)	
Patil Vijay Narendranath	Performance of evaluation of ecofriendly artificial negative ion generator	
	Regd No.: NMU/11/Ph.D./Ele.Engg./24/2011 dated 23/02/2011	
D 10 1 1	(Awarded)	
Bagul Sanjaykumar	Investigation of image investigation techniques for monochrome and color	
Jagannath	images, <b>Regd No.: NMU/11/Ph.D./Ele.Engg./25/2011 dated</b>	
Mr. Harish A. Sonawane	23/02/2011(Awarded)	
Mr. Harish A. Sonawane	Synthesis, characterization of core-shellapplication in polymers. <b>Regd</b> <b>No.: NMU/11/PhD/Chem. Tech./2/2012 dated 21/05/2012 (Awarded)</b>	
Ms. Shirole Sharda	Green chemistry approach for the synthesis of nanoparticles and their	
Wis. Shirole Sharda	applications in polymer composites <b>Regd</b> No.:	
	NMU/11/PhD/Chem/303/2012 dated 02/01/2012 (Awarded)	
Mr. Yogesh	Development of multifunctional/nanomaterials for specialty polymers	
Suryawanshi	Regd No.: NMU/11/PhD/Chem./22/2013 dated 02/05/2013	
-		
Ms. Shilpa Jain	Technique development for synthesis of smart nanomaterials and their	
	applications in sensing (176/12-01-2015/MUM) (Awarded)	
Ms. Minakshi Jha	Synthesis of efficient nanomaterials and their applications in polymer	
	nanocomposites (178/08-05-2015/MUM) (Awarded)	
Mr. Milind Tamore	Development of intrinsically novel polymer nanocomposites filled with	
Ma Alasha ya Chal	CNTs (188/04-11-2015/MUM) (Awarded)	
Ms Akshara Shah	Fabrication of nanofibers using spinning technique and its effect on	
	mechanical and thermal properties of polymer nanocomposites (191/04-12-2015/MUM) (Awarded)	
Ms. Sarika Rasal	Development of an efficient and promising metal/metal oxide nanoparticle	
wis. Salika Kasal	as a catalyst in selective organic reactions (Th./ICD/2016-17/2477)	
	(Awarded)	
	Thesis submitted	
-	-	
-	-	

Work under progress						
Mr. Mujahid Khan	Fabrication of smart nanostructure and their effect on polymer					
	degradation (Th./ICD/2016-17/2669)					
Ms. Shabnam Khan	Green chemistry approach for the synthesis of smart nanostructures					
	using ultrasonic cavitation technique with the study of particle					
	formation mechanism and their application in speciality polymers					
Mr. Ware Pundalik						
Ms. Jolina Rodurgues	Design, synthesis and characterization of smart nanostructures and					
	nanocomposites: Its application in gas sensing					
Ms. Aruna Sudapalli	Development of hierarchical advance nanomaterials and their					
	application in dye degradation					
Mr. Jayesh Dixit	Technique development for the synthesis of novel nanocatalyst using					
	bottom up approach and its application in organic transformation					
	reactions					

# **Publications in Journals**

# International- 95 National-02 (List of few selective papers attached)

S.	Authors	Title of the paper	Journal	Vol. & pp	Year	Impact
No			[ISSN NO]			factor
1	N. G. Shimpi	Studies on effect of	Journal of	119, 148–154	2011	1.35
	and S. Mishra,	improved d spacing of	Applied			
		montomorillonite on	Polymer			
		properties of PVC	Science			
		nanocomposites	[1097-4628]			
2	S. Mishra,	Influence of stearic acid	Journal of	18(6):	2011	2.019
	N. G. Shimpi	treated nano CaCO <sub>3</sub> on	Polymer	1715-1724		
	and A. D. Mali	properties of silicone	Research			
		nanocomposites	[1572-8935]			
3	S. Mishra,	Investigation of Photo-	Polymer for	23(2):236-246	2012	2.01
	N. G. Shimpi	oxidative effect on	Advance			
	and A. D. Mali	morphology and	Technology			
		degradation of	[1099-1581]			
		mechanical and physical				
		properties of nano				
		CaCO <sub>3</sub> silicone rubber				
		composites				
4	S. Mishra,	Surface Modification of	Macromolecular	20(1), 44-50	2012	2.32
	N. G. Shimpi	Montmorillonite (MMT)	Research			
	and A. D. Mali	Using Column	[1598-5032]			
		Chromatography				
		Technique and Its				
		Application in Silicone				
		Rubber Nanocomposites				

5	C Mish	Effect of me	Maanana - 11	21(5) ACC A72	2012	2.22
	S. Mishra,	Effect of surface	Macromolecular	21(5) 466-473	2013	2.32
	N. G. Shimpi	modified	Research			
	and A. D. Mali	montomorillonite on	[1598-5032]			
		photo-oxidative				
		degradation of silicone				
		rubber composites				
		DOI 10.1007/s13233-				
-		013-1035-4	<b>X</b> 1 C	20.40.50	2012	2 0 1 0
6	S. Mishra,	The Effect of PEG	Journal of	20:49-58	2013	2.019
	N. G. Shimpi	Encapsulated Silver	Polymer			
	and T. Sen	Nanoparticles on the	Research			
		Thermal and Electrical	[1572-8935]			
		Property of				
		Sonochemically				
		Synthesized				
		Polyaniline/Silver				
		Nanocomposite	D 1		2014	0.107
7	S. Mishra,	Thermal, mechanical	Polymer	63(2):	2014	2.125
	N. G. Shimpi	and morphological	International	338-346		
	and A. D. Mali	properties of surface-	[1097-0126]			
		modified				
		montmorillonite-				
		reinforced viton rubber				
0	T	nanocomposites	0 1	100 100 100	2014	<b>C</b> 1
8	T. Sen,	Polyaniline/Gama Fe <sub>2</sub> O <sub>3</sub>	Sensors and	190, 120-126	2014	5.1
	N. G. Shimpi,	Nanocomposites for	Actuators B:Chemical			
	S. Mishra, and R. Sharma	room temperatures				
			1110725 /111151			
0		Propagation	[0925-4005] Polymer	35 (2) 263 272	2014	2 324
9	N.G. Shimpi*,	Preparation, Characterization and	Polymer	35 (2), 263-272	2014	2.324
9	N.G. Shimpi*, Mahesh	Characterization and		35 (2), 263-272	2014	2.324
9	<b>N.G. Shimpi*,</b> Mahesh Borane, and	Characterization and Biodegradation of	Polymer	35 (2), 263-272	2014	2.324
9	N.G. Shimpi*, Mahesh	CharacterizationandBiodegradationofPS:PLAandPS:	Polymer	35 (2), 263-272	2014	2.324
9	<b>N.G. Shimpi*,</b> Mahesh Borane, and	CharacterizationandBiodegradationofPS:PLAandPLA:OMMTF	Polymer	35 (2), 263-272	2014	2.324
9	<b>N.G. Shimpi*,</b> Mahesh Borane, and	CharacterizationandBiodegradationofPS:PLAandPS:PLA:OMMTVanocompositesUsing	Polymer	35 (2), 263-272	2014	2.324
	N.G. Shimpi*, Mahesh Borane, and S. Mishra	CharacterizationandBiodegradationofPS:PLAandPLA:OMMTPS:NanocompositesUsingAspergillus nigerValue	Polymer Composites			
9	N.G. Shimpi*, Mahesh Borane, and S. Mishra N.G. Shimpi,	CharacterizationandBiodegradationofPS:PLAandPS:PLA:OMMTVanocompositesUsingAspergillus nigerEffect of nano nAl(OH)3	Polymer Composites Polymer	35 (2), 263-272 71 (2), 515-531	2014	2.324
	N.G. Shimpi*, Mahesh Borane, and S. Mishra N.G. Shimpi, HA Sonawane,	CharacterizationandBiodegradationofPS:PLAandPS:PLA:OMMTVanocompositesUsingAspergillus nigerEffect of nano nAl(OH)3on thermal, mechanical	Polymer Composites			
	N.G. Shimpi*, Mahesh Borane, and S. Mishra N.G. Shimpi,	CharacterizationandBiodegradationofPS:PLAandPS:PLA:OMMTVanocompositesUsingAspergillus nigerEffect of nano nAl(OH)3on thermal, mechanical& morphological	Polymer Composites Polymer			
	N.G. Shimpi*, Mahesh Borane, and S. Mishra N.G. Shimpi, HA Sonawane,	Characterization and Biodegradation of PS:PLA and PS: PLA:OMMT Nanocomposites Using Aspergillus niger Effect of nano nAl(OH) <sub>3</sub> on thermal, mechanical & morphological properties of Millable	Polymer Composites Polymer			
	N.G. Shimpi*, Mahesh Borane, and S. Mishra N.G. Shimpi, HA Sonawane,	CharacterizationandBiodegradationofPS:PLAandPS:PLA:OMMTNanocompositesUsingAspergillus nigerEffect of nano nAl(OH)3on thermal, mechanical& morphologicalpropertiesofMillablepoly urathene rubber	Polymer Composites Polymer			
10	N.G. Shimpi*, Mahesh Borane, and S. Mishra N.G. Shimpi, HA Sonawane, and S. Mishra Navinchandra	Characterization and Biodegradation of PS:PLA and PS: PLA:OMMT Nanocomposites Using Aspergillus niger Effect of nano nAl(OH) <sub>3</sub> on thermal, mechanical & morphological properties of Millable	Polymer Composites Polymer Bulletin	71 (2), 515-531	2014	1.438
10	N.G. Shimpi*, Mahesh Borane, and S. Mishra N.G. Shimpi, HA Sonawane, and S. Mishra Navinchandra	CharacterizationandBiodegradationofPS:PLAandPS:PLA:OMMTVanocompositesUsingNanocompositesUsingAspergillus nigerEffect of nano nAl(OH)3on thermal, mechanical&morphologicalpropertiesofpoly urathene rubberPerformanceofhybrid	Polymer Composites Polymer Bulletin	71 (2), 515-531	2014	1.438
10	N.G. Shimpi*, Mahesh Borane, and S. Mishra N.G. Shimpi, HA Sonawane, and S. Mishra Navinchandra G Shimpi,	Characterization and Biodegradation of PS:PLA and PS: PLA:OMMT Nanocomposites Using Aspergillus niger Effect of nano nAl(OH) <sub>3</sub> on thermal, mechanical & morphological properties of Millable poly urathene rubber Performance of hybrid nanostructured	Polymer Composites Polymer Bulletin	71 (2), 515-531	2014	1.438
10	N.G. Shimpi*, Mahesh Borane, and S. Mishra N.G. Shimpi, HA Sonawane, and S. Mishra Navinchandra G Shimpi, Dharmesh P	CharacterizationandBiodegradationofPS:PLAandPS:PLA:OMMTVanocompositesUsingNanocompositesUsingAspergillus nigerEffect of nano nAl(OH)3on thermal, mechanical&morphologicalpropertiesofMillablepoly urathene rubberPerformancef hybridnanostructuredconductiveconductivecotton	Polymer Composites Polymer Bulletin	71 (2), 515-531	2014	1.438
10	N.G. Shimpi*, Mahesh Borane, and S. Mishra N.G. Shimpi, HA Sonawane, and S. Mishra Navinchandra G Shimpi, Dharmesh P Hansora, Rohit	CharacterizationandBiodegradationofPS:PLAandPS:PLA:OMMTNanocompositesUsingAspergillus nigerEffect of nano nAl(OH)3on thermal, mechanical&&morphologicalpropertiesofMillablepoly urathene rubberPerformanceof hybridnanostructuredconductiveconductivecottonthreads as LPG sensor at	Polymer Composites Polymer Bulletin	71 (2), 515-531	2014	1.438

	Mishra					
12	Navinchandra G Shimpi, Dharmesh P Hansora, Rohit Yadav, Satyendra Mishra	Performance of hybrid nanostructured conductive cotton materials as wearable devices: an overview of materials, fabrication, properties and applications	RSC Advances	5:107716-70	2015	3.84
13	Navinchandra G. Shimpi Tanushree Sen and Satyendra Mishra	Synthesis and SensingApplicationsofPolyanilineNanocomposites:AReview	RSC Advances	<b>6</b> : 42196-42222	2016	3.84
14	N.G.Shimpi T.Sen and S. Mishra	Room Temperature COSensingbyPolyaniline/Co3O4Vanocomposites	Jouranl of Applied Polymer Science	133:42,44115	2016	1.860
15	Navinchandra G Shimpi, Shilpa Jain, Narayan Karmakar, Akshara Shah, DC Kothari, Satyendra Mishra	Synthesis of ZnO nanopencils using wet chemical method and its investigation as LPG sensor	Applied Surface Science (0169- 4332)	390:17-24	2016	3.387
16	N. Karmakar , R Fernandes, Shilpa Jain, U.V. Patil, Navinchandra G. Shimpi, N.V. Bhat , D.C. Kothari	Room temperature NO <sub>2</sub> gas sensing properties of p-toluenesulfonic acid doped silver-polypyrrole nanocomposite	Actuators Part	2017,242:118- 126	2017	5.41
17	Navinchandra G Shimpi, Shilpa Jain, Narayan Karmakar, Akshara Shah, DC Kothari, Satyendra Mishra	Ammonia detection of 1-D ZnO/polypyrrole nanocomposite: Effect of CSA doping and their structural, chemical, thermal and gas sensing behavior	Applied Surface Science (0169- 4332)	2017,396:1317- 1325	2017	3.387
18	Tanushree Sen, Satyendra	A β-cyclodextrin based binary dopant for	Materials Science and	2017:220:13- 21	2017	2.552

Mishra,	polyaniline: Structural,	Engineering: B		
Navinchandra	thermal, electrical, and			
G Shimpi	sensing performance			

19	Tanushree Sen, Satyendra Mishra,S.S. Sonawane, Navinchandra G. Shimpi	Polyaniline/zinc oxide nanocomposites as room-temperature sensing layer for methane	Polymer Engineering and Science	Published online	2018	1.449
20	Navinchandra G. Shimpi* and Minakshi Jha	Green synthesis of zero valent colloidal nanosilver targeting A549 lung Cancer cell: In vitro cytotoxicity	Journal of Genetic Engineering and Biotechnology	Published online	2018	
21	Akshara Shah, Anuj Sharma, Shilpa Jain and Navinchandra G. Shimpi	Microwave assisted one pot three component synthesis of propargylamine, tetra substituted propargylamine and pyrrolo[1,2-a]quinolines using CuNPs@ZnO-PTh as a heterogeneous catalyst	New Journal of Chemistry	Published online	2018	3.269

# Papers presented in Conferences/Symposium

## National-40 International-60

# **Invited talks**

S.No	Authors	Title of the talk	Conference	Date	Year	Place
1.	N. G. Shimpi	Polymer Nanocomposites:	Workshop on	Dec 12-13	2008	Nasik
	and S. Mishra	Prospectus of Application	Nanotech.			
2.	N. G. Shimpi	Sonochemical method for	ICPPC-10	Jan 15-17,	2010	Kottay
	and S. Mishra	epoxy nanocomposites				am
3	N. G. Shimpi,	Biodegradable polymer	APM-10,	Feb 20-22	2010	Bhuba
		based nanocomposites	CIPET			neswa
		_				r
4	N.G. Shimpi,	Metal and Inorganic	First	Octr 23-25	2010	Beijin
	S. Mishra and	Nanoparticles	International			g
	T. Sen	-	Conference on			(China
			'Nanomedicine			)
5	N.G. Shimpi,	Development of New	Frontiers of	Dec 15-17	2010	New
	S. Mishra	Class of Polymer	Polymers and			Delhi

		Nanocomposites,	Advanced			
		Frontiers of Polymers and	Materials			
		Advanced Materials	(Macro-2010),			
6	N.G. Shimpi,	Biodegradation of	Second APM	March 25-	2011	Chenn
0	S. Mishra and	polystyrene (PS)-poly	2011, CIPET	27	2011	ai
	M.D. Borne	Lactic acid (PLA)	2011, CH EI	21		ai
	M.D. Dome	nanocomposites using				
		Bacillus subtilis				
7	N.G. Shimpi	Biodegradable polymers	Govt. Engg.	Aug. 14	2012	Nashi
,	11.0. Simipi	biodegradable polymers	College Nashik	Aug. 14	2012	k
8	N.G. Shimpi	Biodegradable polymer	NCL, Pune	Dec 15-17,	2012	Pune
0	itto: Simpi	nanocomposites	TTCL, I une		2012	1 une
9	N.G. Shimpi	PU rubber	VNIT, Nagpur	Jan 21-23	2013	Nagpu
/		nanocomposites:	vitii, itugpui	Juli 21 23	2013	r
		Preparation and				-
		application				
10	N.G. Shimpi	Metal nanoparticles and	VNIT, Nagpur	Feb 15-17	2013	Nagpu
10	r wor similar	their oxides	(1(11), 1(0))pm	100 10 17	2010	r r
11	N.G. Shimpi	Polymer nanocomposites:	CIPET,	March 1-2	2013	Lukno
	I I I I I I I I I I I I I I I I I I I	Its degradation using	Lucknow			W
		Aspergillus Niger				
12	N.G. Shimpi	Nanotechnology: Its	SVNIT, Surat	April 19-21	2013	Surat
	•	applications in polymers	,	1		
13	N.G. Shimpi	Nanotechnology an	Dr. BATU,	June 10-24	2013	Loner
	-	emerging field of science	Lonere			e
		and technology				
14	N.G. Shimpi	Metal nanoparticles and	RIT, Islampur	June 24-28	2013	Islamp
		their oxides				ur
15	N.G. Shimpi	Synthesis and applications	SDP on	August 6-	2013	Nande
		of nanomaterials	nanoscience	10		d
			and technology			
16	N.G. Shimpi	Nanotechnology in	The polymer	December	2013	Auran
		polymers	chemistry for	$28^{\text{th}}$		gabad
			mankind			
17	N.G. Shimpi	Biodegradable polymer	SWMT 2014	January 08-	2014	SPS-
		nanocomposites: Needs		09		NCL,
						Pune
18	N.G. Shimpi	International conference	APA Young	February	2014	APA-
		on polymers: vision and	scientist award	19-21		IIT,
		innovation	2014 talk			New
						Delhi
19	N.G. Shimpi	Studies on photo-	APM 2015	February	2015	CIPE
		oxidative degradation of		20-22		Τ,
		rubber nanocomposites				Chenn
		using polymeric				ai

		nanoparticles				
20	N.G. Shimpi	Novel method for the synthesis of nanomaterials & their application in polymeric material for societal benefits	Conference on nanoscience for sustainable development	February 23	2015	Nagpu r
21	N.G. Shimpi	Advances in synthesis of nanomaterials and their applications	SDP on nanoscience and technology	February 9 <sup>th</sup>	2016	Auran gabad
22	N.G. Shimpi	Applicationofnanomaterialsinpolymers	APM 2016	February 12-14	2016	CIPE T,Che nnai
23	N.G. Shimpi	Applicationofnanomaterialsinmembrane	SDP on RTNMT 2016	February 24-28	2016	VNIT, Nagpu r
24	N.G. Shimpi	Nanomaterials: Synthesis and applications	Innovative Concepts and methodology in pharmaceutical Research II	March 19	2016	Shirpu r
25	N.G. Shimpi	Applications of nanomaterials in polymers	STTP, SVNIT, Surat	October 15-22, 2016	2016	Nation al
26	N.G. Shimpi	Nanomaterials synthesis: Applications to patenting	Refresher course, UoM, Mumbai	October 9- 30, 2016	2016	Nation al
27	N.G. Shimpi	ZnO oxide nanoparticles: Synthesis, characterization and applications	Sixth conference on Recent Advances in Polymer Technology, UICT,NMU, Jalgaon	January 27- 28, 2017	2017	Nation al
28	N.G. Shimpi	Nanomaterials: Its applications	Hislop College, Nagpur	February 9 <sup>th</sup> , 2017	2017	Nation al
29	N.G. Shimpi	High performance polyimide films hybrid nanostructures and its property investigation	Advances in polymeric materials APM, 2017 CIPET, Chennai	February 12-13, 2017	2017	Intern ational
30	N.G. Shimpi	Advance multifunctional materials	NCMAM 2017, Nagpur	March 17- 18,2017	2017	Nation al

31	N.G. Shimpi	Multifunctional	ISSHT in	April	2017	Intern
		nanomaterials	Current	22,2017		ational
			Scenario			
32	N.G. Shimpi	Polymer nanocomposites	APM 2018,	February 2-	2018	Intern
		as smart nanomaterials	LARMP	4,2018		ational
		and its applications in	CIPET,			
		high response gas sensors	Bhubaneshwar			
33	N.G. Shimpi	Property investigation of	RAPT 2018,	February	2018	Nation
		ZnO NRs impregnated	NMU, Jalgaon	16-17,2018		al
		nanofibers using				
		electrospinning technique				

# Patents

Sr. No	Name of the patent	Parent Application No	Current status
1	Process for Improved D-Spacing of Nanoclay	260237(526/MUM/2009)	Granted
2	A Process of Ultrasonic Cavitation Technique for Synthesis of Polymer Nanoparticles	36/MUM/2012	Under examination
3	Controlled Synthesis of Inorganic/Hydroxide Nanoparticles Using Continuous Ultrasonic Cavitation Technique		Granted
4	An apparatus for continuous synthesis of carbon nano materials and a process for the same (process)	3179/MUM/2013	Under examination

# Conferences/Seminars/Courses organized

S.	Event	Duration	Designation
No			
1.	Recent Advances in Chemical Technology	January 6-7, 2010	Active member
2.	Role of Nanotechnology in Polymer and Chemical	March 15, 2008	Active member
	Industries		
3.	First Conference on Recent Advance in Polymer	January 30, 2009	Secretary
	Technology		
4.	Second Conference on Recent Advances in	December 28-29,	Treasurer
	Polymer Technology	2009	
5.	Recent Advances in Chemical Engineering	March 30, 2010	Active member
6.	Certificate Course on Nanotechnology	May 11-15, 2010	Coordinator
7.	Third Conference on Recent Advance in Polymer	January 15, 2011	Convener
	Technology		
8.	Second Professional Certificate Course on	May 11-15, 2011	Coordinator
	Nanotechnology		
9.	SDP on Recent Advances in Polymer Technology	June 15-30, 2011	Coordinator

10	Fourth Conference on Recent Advance in Polymer	March 2-3, 2012	Convener
	Technology		
11	SDP on Recent Advances in Nanoscience and	June 15-30, 2012	Coordinator
	Technology		
12	Fifth National Conference on Recent Advances in	March 21-22,2013	Convener
	Polymer Technology		
13	STTP on Nanoscience and Technology	June 20-25,2013	Coordinator
14	Refresher course in Recent Advances in Chemical	November 12 <sup>th</sup> -	Coordinator
	Sciences and Technology	December 1 <sup>st</sup> , 2018	

#### Book published as author/edited

Biodegradable and biocompatible polymer composites-Processing, properties and application-Navinchandra G. Shimpi published by *Elsevier and Woodhead Publishers* 

Carbon based nanomaterials and their nanocomposites for gas sensing by Elsevier Publishers

Editorial board member of the journals

The Open Materials Science Journal Nanoscience and Nanotechnology-Asia International Journal of Chemical Sciences Current Applied Polymer Sciences