

1. Name **Prof. Dr. techn. Murthy SSS CHAVALI**
2. Designation and Present Institution
(different lines separated by commas): Professor & Head,
Department of Nanotechnology
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7. Brief account of your research interests with special focus on Nano Science and
Technology (strictly within 300 words):
- a. Primarily working in the area of micro/nano sensors design and development
novel/smart materials for ultra-trace level sensing.
 - b. Room temperature MO_x (doped, Dual and triple) sensors.
 - c. Development of solar cells and other applications incorporating nanoparticles
to harvest energy.
 - d. Polymer nanocomposites
 - e. Nanophotonics, Biophotonics, Hollow waveguide sensors, QC DFB and FP
lasers.
 - f. Wireless Nanosensors, Networks, Wireless Networks-on-Chip
 - g. Nano sensors raise safety in the food industry
8. Keywords related to your research interests
(maximum 10, different lines separated
by commas) NanoMaterials, NanoSensors,
Nano Organic-Inorganic Hybrids,
Hyphenated Techniques, Polymer
Composites, Carbon nanostructures,
Graphene Oxide & Graphene based
materials, smart materials, MO_x dual
and triple MO_x

EDUCATIONAL QUALIFICATIONS

S. No.	Name of the Degree	Branch/ Specialization	Year of Completion	Class	% marks Obtained	University/ Institute
1.	B.Sc.,	Chemistry (Main), Botany & Zoology (Ancillaries)	1990	First	75.60	Nagarjuna University, Guntur, INDIA.
2.	P.G.D.C.A.	Computers	1991	First	A	Osmania University, Hyderabad, INDIA.
3.	M.Sc. Tech.,	Pure Chemistry, Specialization: Environmental, Analytical Chemistry	1994	First	83.30	J.N.T. University, Hyderabad, INDIA.
4.	Certificate in GERMAN	GERMAN Language	1999	First	A	University of Vienna, AUSTRIA.
5.	Ph.D. Tech.,	Analytical Chemistry and MIR, QC Lasers	2000	First	A	Vienna University of Technology, Vienna, AUSTRIA.
6.	Certificate in JAPANESE	Japanese Language	2002	First	A	Kobe University, JAPAN.
7.	PDF – JAPAN	Analytical Chemistry and NIR, QC Lasers	2002	Not applicable		Center for Instrumental Analysis, Kobe University, Kobe, JAPAN.
8.	PDF – JAPAN	Electro-Analytical Chemistry	2003	6 Months		Yamaguchi, JAPAN.
9.	PDF – TAIWAN	Bio Analytical Chemistry	2003	6 Months		National Science Council, Hsinchu, TAIWAN.
10.	Certificate in CHINESE	Mandarin Language	2003	Basic Course		National Science Council, Hsinchu, TAIWAN.

WORK EXPERIENCE

S. No.	Position held	Name of the employer	From	To
1.	a. PROFESSOR & HEAD , Department of Nanotechnology b. DIRECTOR , International Relations Office (IRO) c. CHAIRMAN , Board of Studies (BoS) in Nanotechnology d. Member, Doctoral Committee	N.I. Center for Higher Education, (N.I. University) INDIA	18 th Jun. 2010 15 th Feb. 2011 18 th Jun. 2010 18 th Jun. 2010	Till date
2.	a. ASSOCIATE PROFESSOR of Analytical Chemistry b. Deputy Director (Selected as) International Relations Office (IRO) – VIT University, INDIA c. M.Sc. Projects Coordinator for Chemistry (Inorganic/Organic/ Analytical) d. Member , Committee for selection of Research Students (M.Phil./Ph.D.) and Doctoral Committee	VIT University, INDIA	01 st Jan. 2009 6 th Dec. 2007 10 th Jun. 2009 10 th Jun. 2009	11 th Jun. 2010
3.	a. ASSISTANT PROFESSOR of Analytical Chemistry b. International Relations Office (IRO) – VIT University, INDIA. c. Placement & Training (PAT) Officer In-Charge, CHEMISTRY.	VIT University, INDIA	17 th Oct. 2007 6 th Dec. 2007 08 th Jun. 2008	31 st Dec. 2008 31 st Dec. 2008 10 th Jun. 2009
4.	CONSULTANT , R&D for Industrial Nanotechnology	INDUSTRY OF TAIWAN/ UNIVERSITY	03 rd Nov. 2004	Till date

PUBLICATIONS

SELECTIVE **JOURNAL** PUBLICATIONS SINCE JUNE 2010

a. JOURNALS

S. No.	Authors Names	Title of Paper	Journal	Vol./ Iss.	Pages	Year	Impact Factor
1.	Tzu-Hsuan Lin, Shih-Lin Hung, Murthy Chavali, Ren-Jang Wu, Hsiang-Ning Luk, Qin Fei,	Towards development of wireless sensor system for monitoring anesthetic agents	Sensor Letters	8	1-10	2010	1.587
2.	Hung-Jie Liou, Gopalakrishnan Suyambrakasam, Te-Chin Tsai, Ren-Jang Wu, Murthy Chavali,	Preparation of nano structured organic/inorganic polymer hybrids and their humidity sensing properties,	Journal Taiwan Institute of Chemical Engineers	42/5	868-873	2011	1.412
3.	Ren-Jang Wu, Te-Chin Tsai, Hsiang-Ning Luk, Murthy Chavali	Fast Detection of Local Anesthetic Levobupivacaine by Impedance Method on Ppy/SWCNT	Journal of Nanoscience & Nanotechnology	11/6	4667-4674	2011	1.44
4.	Ming-Ru YU, Ren-Jang WU, Murthy CHAVALI,	Effect of 'Pt' doping in ZnO-CuO hetero-junction material sensing carbon monoxide at room temperature	Sensors & Actuators: B. Chemical	153	321-328	2011	3.920
5.	Prathik Roy (羅伊), Te-Chin Tsai (蔡德縉), Chi-Te Liang (梁啟德), Ren-Jang Wu (吳仁彰), Murthy Chavali (柴梅熙),	Application of impedance measurement technology in distinguishing different tea samples with Ppy/SWCNT composite sensing material	Journal of the Chinese Chemical Society	58/3	1-9	2011	0.628
6.	Sagareswar Gummeneni, Yusri Bin Yusup, Murthy Chavali, Z.S. Samadi	Source apportionment of particulate matter in the ambient air of Hyderabad City, India	Atmospheric Research	101/3	752-764	2011	1.811
7.	Ming-Ru Yu, Gopalakrishnan Suyambrakasam, Ren-Jang Wu, Murthy Chavali	Preparation of organic-inorganic (SWCNT/TWEEN-TEOS) nano hybrids and their NO gas sensing properties	Sensors & Actuators: B. Chemical	161/1	938-947	2012	3.920
8.	Aparna S Nair, Elize Varghese, Venkatesh Babu K C, Rimal Isaac R S, Murthy Chavali	Genetic diversity, phytochemical, antioxidant and nutrient analysis of Medicinal Rice (<i>Oryza sativa</i> L.) varieties found in South India	Advanced Science Letters	11	86-90	2012	1.253
9.	Ming-Ru Yu, Ren-Jang Wu, Gopalakrishnan Suyambrakasam, Joseph Joly, Murthy CHAVALI	Evaluation of graphene oxide material as formaldehyde gas sensor	Advanced Science Letters doi:10.1166/asl.2012.4264	5	1-0	2012	1.253
10.	I-Chun Yao, Xiang-Hong Zheng, Ren-Jang Wu, Gopalakrishnan Suyambrakasam, Murthy CHAVALI	Novel nano In ₂ O ₃ -WO ₃ composite films for ultra-trace level (ppb) detection of NO gas at room temperature	Advanced Science Letters doi:10.1166/asl.2012.4262	5	1-8	2012	1.253
11.	Ming-Ru Yu, Gopalakrishnan Suyambrakasam,	Performance evaluation of ZnO-CuO hetero junction solid state room	Mat. Res. Bulletin	47 / 7	1713-1718	2012	2.145

	Ren-Jang Wu, Murthy Chavali	temperature ethanol sensor					
12.	Rimal Isaac, M C SriBindu, P Sudhakar Reddy, VL Joseph Joly, RJ Wu, ChSSS Murthy	Halogen substituted chalcone as potential antioxidant: An in vitro study	Adv. Sci. Eng. Med. doi:10.1166/ase.m.2012.1197	4	499-505	2012	0.38
13.	Bei Yu, Gobalakrishnan Suyambrakasam, Ren-Jang Wu, Murthy Chavali	Pt loaded In ₂ O ₃ -WO ₃ composite films for ultra-trace level (ppb) detection of NO gas at room temperature	Sens. And Actuators B: Chemical			Submitted 3.920	
14.	Lekshmi Gangadhar, P.K.Praseetha, Murthy S.Chavali	Review - Trends In Nanotechnology Towards The Diagnosis And Cure Of Arthritis	Nano Science & Nano Technology – An Indian Journal	5/3 & 4	1-5	2012	-
15.	Praseetha P. K, Supriya C. V, Chandrāja C. V, Vijayalekshmi B, Murthy S. Chavali	Biosynthesis of titanium nanoparticles and their role in killing colon cancer cells	Journal of Nanoscience Letters http://www.simplex-academic-publishers.com/abstracts/109637257.aspx	In Press		2012	-
16.	Praseetha P K, Anand S Thampy, Venugopalan P, Murthy S Chavali	Review - Molecular Nanobiotechnological approaches for the detection and therapy of prion related diseases	Nano Biomed. Eng. DOI: 10.5101/nbe.v4i2.p50-57.	4/2	50-57	2012	-
17.	K. Saravanakumar, K. Ravichandran, R. Chandramohan, S. Gobalakrishnan and Murthy Chavali	Investigation on simultaneous doping of Sn and F with ZnO nanopowders synthesized using a simple soft chemical route	Superlattices and Microstructures	In Press		2012	1.240
18.	M. Prabu, I. B. Shameem Banu, S. Gobalakrishnan and Murthy Chavali	Synthesis and optical characterization of PZT (52/48) powders by sol-gel method	ASEM Accepted			2012	0.5
19.	M. Prabu, I. B. Shameem Banu, D. Kannan, S. Gobalakrishnan and Murthy Chavali	Pulsed laser deposition and ferroelectric characterization of PZT (52/48) thin films	ASL Accepted				1.254
20.	M. Prabu, I. B. Shameem Banu, D. Kannan, S. Gobalakrishnan and Murthy Chavali	Ferroelectric studies and impedance analysis of PLZT (10/52/48) electroceramics	J. of Materials Science: Materials in Electronics				
21.	Rimal Isaac, Suyamprakasam Gobalakrishnan, Gopika Rajan, Joseph Joly, Thomas Mathew, Ren-Jang Wu, Sudhakar Reddy Pamanji and Murthy Chavali	An overview of facile green biogenic synthetic routes and applications of platinum nanoparticles	ASEM Accepted			2012	0.5