

## BIO-DATA

1. **Name:** Z. V. P. MURTHY
2. **Birth Date:** 26/08/1964
3. **Address:** Professor and Head  
Department of Chemical Engineering  
S. V. National Institute of Technology, Surat  
Ichchhanath, Surat – 395007 (Gujarat) INDIA  
Tel. +91 261 2201641, 2201642, 2201648  
Fax No. +91 261 2227334, 2228394  
E-mail: zvpm2000@yahoo.com, zvpm@ched.svnit.ac.in  
Institute webpage: <http://www.svnit.ac.in/>



#### 4. **Educational Qualifications:**

Degree and Specialization	University/Institute	Year of Completion
B.Tech. (Chemical)	Regional Engineering College, Warangal, A.P. (Presently National Institute of Technology, Warangal)	1986
M.Tech. (Chemical)	Indian Institute of Technology, Kharagpur	1991
Ph.D. (Chemical)	Indian Institute of Technology, Delhi	1997
Post Graduate Diploma in Computer Science	Central University of Hyderabad, Hyderabad, A.P.	2000

#### 5. **Industrial Experience:** 2 years.

Worked in industries at Hyderabad in the production of Monochloro Acetic acid and its derivatives, and Sulfamethoxazole basic drug, about 2 years after B.Tech.

Industry	Post held	Period
MCA Chemicals Limited, Hyderabad	G.E.T.	22/12/1986 - 14/02/1988
Hitesh Chemicals & Drugs (P) Ltd., Hyderabad	Process Engineer	15/02/1988 - 25/08/1988
Reliance Cellulose Products Limited, Hyderabad	Plant-In-Charge	14/02/1989 - 26/06/1989

#### 6. **Teaching and Research Experience:** U.G. and P.G. Teaching: About 16 years.

Institute	Post held	Period
D. D. Institute of Technology, Nadiad, Gujarat	Lecturer	21/04/1995 - 24/06/1999
	Senior Lecturer	25/06/1999 - 04/09/2000
S. V. National Institute of Technology, Surat, Gujarat	Assistant Professor	05/09/2000 - 16/10/2006
S. V. National Institute of Technology, Surat, Gujarat	Professor (HoD:22/12/2005-22/12/2008) (HoD:05/10/2011- )	Since 17/10/2006

7. **Research Fields of Interest:** Wastewater Treatment, Separation Processes (membrane separations, adsorption, electrocoagulation, etc.), Nanoscience/Nanotechnology.

8. **M.Tech/M.E. Dissertations Guided:** 27 (including the one which won ISTE – IPCL National Award for 2<sup>nd</sup> Best M.E. (Chemical) thesis for 2000 and the another one which Won the Indian National Academy of Engineering-Innovative Student Projects Award – 2010. Presently guiding 2 M.Tech. Dissertations. (please see **Appendix-I**)

9. **Ph.D. Supervisor:** 5 Completed + 1 Thesis submitted and 12 Going-on (please see **Appendix-II**)

10. **Ph.D. Thesis Examiner:** Ph.D. thesis examiner at Osmania University, Hyderabad and Dr. Babasaheb Ambedkar Technological University, Lonere, Maharashtra. Also, in the panel of Ph.D. thesis examiners of I.I.T. Roorkee, I.I.T. Guwahati, B.I.T.S., Pilani, Andhra University, Vishakapatnam, and Anna University, Chennai.

11. **Research Projects:** 5 completed & 1 going-on.

- (i). MHRD Thrust Area Research Project (Rs.8.00 Lacs) for “***Removal/recovery of toxic material/trace metals from wastewaters by membrane separation processes***”. (Principal Investigator) (2002-2004).
- (ii). A.I.C.T.E. R&D Project (Rs.4.80 Lacs) for “***Multi-component metal extraction from wastewater by liquid surfactant membrane***”. (Co-Investigator) (2003-2006).
- (iii) R & D Grant of the Institute (Rs.6.05 Lacs) for “***Studies on shape profile of liquid droplets from nozzle***”. (Principal Investigator) (2007-2008).
- (iv) R & D Grant of the Institute (Rs.4.14 Lacs) for “***Evaluate the performance of tertiary treatment in a full scale upflow anaerobic sludge blanket (UASB) based sewage treatment plant (STP)***”. (Co-Investigator) (2007-2008)
- (v) R & D Grant of the Institute (Rs.2.25 Lacs) for “***Sonocrystallization for the recovery of valuable products from dairy waste stream***”. (Co-Investigator) (2007-2008)
- (vi) Department of Science & Technology (Rs.5.76 Lacs) for “***Synthesis of alumina supported ruthenium nanocatalyst using microemulsion technique***”. (Co-Investigator) (2009- Going on)

12. **Patents:** *Please see Appendix –III*

13. **Recognition and Citations:**

Reviewed/reviewing technical papers for 68 International/National Journals in the fields of Chemical Engineering, Environmental Engineering/Management and Separation Techniques.  
*(for details please see Appendix-IV)*

14. **Publications and Presentations:** Total: 214

Papers published/Accepted for publication in SCI/SCIE Journals: 81

Miscellaneous International Journals: 11

Miscellaneous National Journals: 16

Chapters in International Books: 3

International Conferences/Proceedings: 39

National Conferences Proceedings: 16

Papers presented at National Conferences: 48

*(Please see Appendix-V for details)*

15. **Memberships in Professional Bodies:** Member/ Life Member/ Life Fellow of 17 Professional Bodies.  
*(Please see Appendix-VI)*

**M.E./M.TECH. DISSERTATIONS GUIDED**

Sr. No.	Name of Student	Year of Completion	Title of Thesis	Co-Supervisors (if any)
1.	M.S. Bhakhar	1999	An experimental investigation of hydrolysis of acetic anhydride in a spiral tube coil reactor.	Dr. N.S. Jayakumar
2.	A.G. Zambad	2000	A kinetic study and dynamics of biosynthesis of dextran in batch fermenter.	Dr. N.S. Jayakumar
3.	M.T. Dhotre	2000	Modeling and dynamics of heat transfer cooling of liquid using half-coil jacket. (Won ISTE – IPCL National Award for 2 <sup>nd</sup> Best M.E. (Chemical) thesis for 2000)	Dr. N.S. Jayakumar
4.	V.D. Karia	2000	Kinetics and modeling of biosynthesis of gibberellic acid in batch fermenter.	Dr. N.S. Jayakumar
5.	H.R. Patel	2001	Accessing of inaccessible unsteady-state by use of cascade of non-isothermal CSTR in series.	Dr. N.S. Jayakumar
6.	Tejal Patel	2001	Experimental investigation of acid catalyst hydrolysis of acetic anhydride in tubular reactor.	Dr. N.S. Jayakumar
7.	Telu Prabhakar	2004	Fluoride removal from industrial wastewater economically.	N.N. Patel
8.	L.B. Chaudhari	2007	Studies on separation of heavy metals from aqueous solutions by nanofiltration and characterization of the membrane.	-----
9.	N.B. Patel	2007	Mercury removal from aqueous solutions by adsorption using zeolites.	Dr. P.A. Parikh
10.	A.K. Agrawal	2008	Pervaporative separation of ethanol/water mixtures and industrial effluent.	-----
11.	P.J. Gandhi	2008	Manufacturing of p-anisic acid.	-----
12.	Konakala Prakash	2008	Evaluation of performance of post treatment in a full-scale up-flow anaerobic sludge blanket (UASB) based sewage treatment for anionic surfactants.	Dr. A.K. Mungray
13.	Nilamben L. Chauhan	2009	Catalytic cracking of naphtha over zeolites.	Dr. P.A. Parikh
14.	Vishal Jadav	2009	Organics separation by pervaporation.	Dr. Mausumi Mukhopadhyay
15.	V. N. Lad	2009	Studies on profile of liquid jet.	-----
16.	Swati Sharma	2010	Degradation of 4-Chlorophenol in waste water by organic oxidants. (Won the Indian National Academy of Engineering-Innovative Student Projects Award – 2010)	Dr. Mausumi Mukhopadhyay
17.	Dainik D. Patel	2010	Preparation of novel thin film composite membranes for desalination.	-----
18.	Jayant Singh	2010	Preparation, characterization and performance of polymeric membranes for nanofiltration and pervaporation.	Dr. Alka A. Mungray
19.	Rahul V. Matte	2010	Studies on submersible membrane based water purification systems.	-----
20.	Snehal R.Parmar	2010	Treatment of metal containing aqueous wastewater by electrocoagulation.	-----
21.	Smitha Rajesh	2010	Polymeric support catalyst system – Ethylene polymerization.	Dr. P.A. Parikh
22.	Harshad R. Patil	2011	Studies on synthesis of chemical compounds for nucleation of polypropylene.	Dr. P.A. Parikh
23.	Saurabh Singh	2011	Microwave assisted synthesis of polyethersulfone.	Dr. M. Chakraborty
24.	Anshul Choudhary	2011	Removal of lanthanides by nanofiltration.	-----
25.	Kartik. R. Desai	2011	Studies on separation of heavy metals from aqueous solutions by complexation-ultrafiltration.	-----
26.	Mrigash Kumar Shah	2011	Pervaporation separation of alcohols using poly(vinyl alcohol) membrane.	-----
27.	Anshika Rani	2011	Wastewater treatment by electrocoagulation.	-----

**DOCTORAL THESES SUPERVISED**

Sr. No.	Name of Student (Adm. No.) (Regn. Date)	Month & Year of Completion	Title of Thesis	Co-Supervisor (if any)	Remarks
1.	Shaik Bhasha (D05CH404) (25/07/2005)	November 2008	Studies on removal of heavy metals from wastewaters by novel biosorbents.	-----	-----
2.	Alka G. Boricha (D06CH401) (20/07/2006)	October 2009	Nanofiltration membranes: preparation, characterization and applications in heavy metals removal from wastewaters.	-----	-----
3.	John U. Kennedy Oubagaranadin (D05CH401) (22/07/2005)	March 2010	Removal of heavy metals from aqueous solutions using different adsorbents.	-----	-----
4.	Lateshkumar B. Chaudhari (DS07CH405) (18/01/2008)	August 2011	Studies on removal of heavy metals by nanofiltration.	-----	-----
5.	Sanjaykumar R. Patel (DS07CH403) (18/01/2008)	August 2011	Recovery of lactose from dairy waste streams by sonocrystallization.	-----	-----
6.	Jignasa N. Solanki (DS07CH404) (18/01/2008)	2012	Synthesis and applications of metallic nanoparticles.	-----	Thesis submitted
7.	Pankaj J. Gandhi (D08CH404) (24/07/2008)	2012 (Expected)	Development of nanoparticles for applications in medical and pharmaceutical industries.	-----	
8.	Jyoti V. Tolia (DSO8CH405) (23/01/2009)	2012 (Expected)	Preparation and characterization of nanoparticles using different methods.	Dr. M. Chakraborty	
9.	M.V. Karkare (D08CH401) (24/07/2008)	2012 (Expected)	Studies on kinetics of aerobic biological oxidation of complex organic waste.	-----	

**PATENTS**

**1. Indian Patent Application Published** in “The Patent Office Journal” (Journal No. 30/2010. Page 21300).

**Title:** A process for the preparation of p-anisic acid.

**Inventors:** Dr. Pankaj J. Gandhi, Dr. Yogen H. Talia and **Dr. Z.V.P. Murthy.**

**Application Number:** 1043/MUM/2008 A.

**Date of Filing of Application:** May 15, 2008.

**Date of Publication:** July 23, 2010.

**2. International Patent Application Published Under the Patent Cooperation Treaty (PCT)**

**Title:** Re-establishment of blood flow in blocked human arteries by transferring nano-encapsulated drug through medical devices, designed for the same and releasing the nano-encapsulated drug in human artery with body pH.

**Inventors:** Manish Doshi; Divyesh Sherdiwala; Prakash Sojitra; Ashwin Vyas; Pankaj Gandhi; **Zagabathuni Venkata Panchakshari Murthy**

**International Application Number:** PCT/IN 2010/000347

**Date of International Filing of Application:** May 21, 2010.

**International Publication Number:** WO 2010/137037 A2

**Date of Publication:** December 2, 2010.

**3. Indian Patent Application Published** in “The Patent Office Journal” (Journal No. 49/2010. Page 3093).

**Title:** Re-establishment of blood flow in blocked human arteries by transferring nano-encapsulated drug through medical devices, designed for the same and releasing the nano-encapsulated drug in human artery with body pH.

**Inventors:** Manish Doshi; Divyesh Sherdiwala; Pankaj Gandhi; Prakash Sojitra; Ashwin Vyas; **Zagabathuni Venkata Panchakshari Murthy**

**Application Number:** 1324/MUM/2009 A.

**Date of Filing of Application:** May 29, 2009.

**Date of Publication:** December 3, 2010.

**4. Indian Patent Filed on 23/02/2011**

**Title:** A drug –eluting device with a selectively permeable membrane.

**Inventors:** Manish Doshi, Pankaj Gandhi, **Zagabathuni Venkata Panchakshari Murthy**

**Application Number:** 500/MUM/2011

**5. United States Patent Application Published**

**Title:** Re-establishment of blood flow in blocked human arteries by transferring nano-encapsulated drug through medical devices, designed for the same and releasing the nano-encapsulated drug in human artery with body pH.

**Inventors:** Manish Doshi; Divyesh Sherdiwala; Prakash Sojitra; Ashwin Vyas; Pankaj Gandhi; **Zagabathuni Murthy**

**Application Number:** 12/920,818

**PCT Filed:** May 21, 2010.

**PCT Number:** PCT/IN10/000347

**Publication Number:** US 2011/0264188 A1

**Date of Publication:** October 27, 2011.

**RECOGNITION AND CITATIONS****Reviewed/reviewing technical papers for the following International Journals:**

1. **African Journal of Biotechnology** (Academic Journals, Kenya) (SCIE Journal)
2. **African Journal of Environmental Science and Technology** (Academic Journals, Kenya)
3. **African Journal of Microbiology Research** (Academic Journals, Kenya) (SCIE Journal)
4. **African Journal of Pure and Applied Chemistry** (Academic Journals, Kenya)
5. **AIChE Journal** (American Institute of Chemical Engineers, USA) (SCI/SCIE Journal)
6. **Applied Clay Science** (Elsevier Scientific Publication, The Netherlands) (SCI/SCIE Journal)
7. **Asia-Pacific Journal of Chemical Engineering** (John Wiley & Sons, USA) (SCIE Journal)
8. **Atmospheric Research** (Elsevier Scientific Publication, USA) (SCI/SCIE Journal)
9. **Biochemical Engineering Journal** (Elsevier Scientific Publication, Switzerland) (SCIE Journal)
10. **Biodegradation** (Springer, USA) (SCI/SCIE Journal)
11. **Bioinorganic Chemistry and Applications** (Hindawi Publishing, USA) (SCIE Journal)
12. **Bioremediation Journal** (Taylor & Francis Group Publication, USA) (SCIE Journal)
13. **Bioresource Technology** (Elsevier Scientific Publication, UK) (SCIE Journal)
14. **Catalysis Letters** (Springer, USA) (SCI/SCIE Journal)
15. **Chemical Engineering & Technology** (Wiley-Blackwell, USA) (SCIE Journal)
16. **Chemical Engineering Journal** (Elsevier Scientific Publication, Switzerland) (SCI/SCIE Journal)
17. **Chemical Product and Process Modeling** (The Berkeley Electronic Press, USA)
18. **Chemistry and Ecology** (Taylor & Francis Group Publication, UK) (SCIE Journal)
19. **Colloids and Surfaces A: Physicochemical and Engineering Aspects** (Elsevier Scientific Publication, The Netherlands) (SCI/SCIE Journal)
20. **Computers & Chemical Engineering** (Pergamon-Elsevier Scientific Publication, UK) (SCI/SCIE Journal)
21. **Current Nanoscience** (Bentham Science Publishers, UAE) (SCIE Journal)
22. **Desalination** (Elsevier Scientific Publication, The Netherlands) (SCI/SCIE Journal)
23. **Desalination and Water Treatment** (Desalination Publications, USA) (SCIE Journal)
24. **Dyes and Pigments** (Elsevier Scientific Publication, UK) (SCI/SCIE Journal)
25. **Environmental Engineering Science** (Mary Ann Liebert, Inc., USA) (SCI/SCIE Journal)
26. **Environmental Justice** (Mary Ann Liebert, Inc., USA)
27. **Environmental Monitoring and Assessment** (Springer, The Netherlands) (SCIE Journal)
28. **Environmental Technology** (Taylor & Francis Group Publication, UK) (SCI/SCIE Journal)
29. **Frontiers of Environmental Science & Engineering in China** (Springer-Verlag, Germany) (SCIE Journal)
30. **Global NEST Journal** (University of the Aegean, Greece) (SCIE Journal)
31. **IE(I) Journal – CH** (Institution of Engineers (India): Chemical Engineering Division)
32. **Indian Journal of Chemical Technology** (NISCAIR, India) (SCIE Journal)
33. **Industrial & Engineering Chemistry Research** (American Chemical Society, USA) (SCI/SCIE Journal)
34. **International Journal of Environment and Waste Management** (Inderscience Publishers, UK)
35. **International Journal of Phytoremediation** (Taylor & Francis Group Publication, USA) (SCIE Journal)
36. **International Research Journal of Biochemistry and Bioinformatics** (International Research Journals Publishing House, Nigeria)
37. **Journal of Agricultural Biotechnology and Sustainable Development** (Academic Journals, Kenya)
38. **Journal of Applied Polymer Science** (John Wiley & Sons, USA) (SCI/SCIE Journal)
39. **Journal of Chemical and Engineering Data** (American Chemical Society, USA) (SCI/SCIE Journal)
40. **Journal of Chemical Engineering and Materials Science** (Academic Journals, Kenya)
41. **Journal of Chemical Technology and Biotechnology** (John Wiley & Sons, UK) (SCI/SCIE Journal)
42. **Journal of Colloid and Interface Science** (Elsevier Scientific Publication, USA) (SCI/SCIE Journal)
43. **Journal of Crystal Growth** (Elsevier Scientific Publication, The Netherlands) (SCI/SCIE Journal)

44. **Journal of Environmental Chemistry and Ecotoxicology** (Academic Journals, Kenya)
45. **Journal of Environmental Management** (Elsevier Scientific Publication, UK) (SCI/SCIE Journal)
46. **Journal of Environmental Protection Science** (Peking University, China)
47. **Journal of Hazardous Materials** (Elsevier Scientific Publication, The Netherlands) (SCI/SCIE Journal)
48. **Journal of Membrane Science** (Elsevier Scientific Publication, The Netherlands) (SCI/SCIE Journal)
49. **Journal of Molecular Liquids** (Elsevier Scientific Publication, The Netherlands) (SCI/SCIE Journal)
50. **Journal of Polymer Research** (Springer, The Netherlands) (SCIE Journal)
51. **Journal of Pulp and Paper Science** (Pulp and Paper Technical Association of Canada) (SCI/SCIE Journal)
52. **Journal of Scientific Research** (Rajshahi University, Bangladesh)
53. **Journal of the Indian Chemical Society** (Indian Chemical Society, India) (SCIE Journal)
54. **Journal of Toxicology and Environmental Health Sciences** (Academic Journals, Kenya)
55. **Korean Journal of Chemical Engineering** (Springer, USA) (SCIE Journal)
56. **Materials Research Bulletin** (Pergamon-Elsevier Scientific Publication, UK) (SCI/SCIE Journal)
57. **Nanoscale** (Royal Society of Chemistry, UK) (SCIE Journal)
58. **Process Biochemistry** (Elsevier Scientific Publication, UK) (SCI/SCIE Journal)
59. **Process Safety and Environmental Protection** (Elsevier Scientific Publication, UK) (SCIE Journal)
60. **RSC Advances** (Royal Society of Chemistry, UK)
61. **Separation Science and Technology** (Taylor & Francis Group Publication, USA) (SCI/SCIE Journal)
62. **Solid State Sciences** (Elsevier Scientific Publication, The Netherlands) (SCI/SCIE Journal)
63. **Thermochimica acta** (Elsevier Scientific Publication, The Netherlands) (SCI/SCIE Journal)
64. **Waste and Biomass Valorization** (Springer, The Netherlands)
65. **Water Air and Soil Pollution** (Springer, The Netherlands) (SCI/SCIE Journal)
66. **Water and Environment Journal** (Wiley-Blackwell, USA) (SCI/SCIE Journal)
67. **Water Environment Research** (Water Environment Federation, USA) (SCI/SCIE Journal)
68. **Water Research** (Elsevier Scientific Publication, UK) (SCI/SCIE Journal)

**Book Proposals Reviewed for the following Publishers:**

1. Universities Press (India), Hyderabad
2. McGraw-Hill Education (India), Noida

**National Mission Project on Education through ICT, MHRD, Government of India:**

**Reviewer** to “Fluid and Particle Mechanics” subject, under the program of “Developing suitable pedagogical methods for various classes, intellectual calibers and research in e-learning”, A National Mission Project on Education through ICT, MHRD, Government of India, anchored by Indian Institute of Technology, Kharagpur.

**Citation Record: About 350 citations in reputed Journals Papers.**

**Editorial Board Member:** "Waste and Biomass Valorization" Journal (Springer, 2009)

**Scientific Committee Member:** The 3<sup>rd</sup> International Conference on Engineering for Waste Valorisation (WasteEng10), May 17-19, 2010, Beijing, China.

**Scientific Committee Member:** The 4<sup>th</sup> International Conference on Engineering for Waste Valorisation (WasteEng12), September 10-13, 2012, Porto, Portugal.

**LIST OF PAPERS PUBLISHED IN JOURNALS/BOOKS****Published in Science Citation Index (SCI) / Science Citation Index Expanded (SCIE) Journals:****1996**

1. **Z.V.P. Murthy** and S.K. Gupta, Simple Graphical Method to Estimate Membrane Transport Parameters and Mass Transfer Coefficient in a Membrane Cell, *Separation Science and Technology*, Vol.31(No.1) (1996) 77-94. DOI: 10.1080/01496399608000682 (Taylor & Francis Group Publication, USA) (Impact Factor: 0.737)

**1997**

2. **Z.V.P. Murthy** and S.K. Gupta, Estimation of Mass Transfer Coefficient Using a Combined Nonlinear Membrane Transport and Film Theory Model, *Desalination*, Vol.109(No.1) (1997) 39-49. DOI: 10.1016/S0011-9164(97)00051-9 (Elsevier Scientific Publication, The Netherlands) (Impact Factor: 0.278)

**1998**

3. **Z.V.P. Murthy** and S.K. Gupta, Thin-film Composite Polyamide Membrane Parameters Estimation for the Phenol-Water System by Reverse Osmosis, *Separation Science and Technology*, Vol.33(No.16) (1998) 2541-2557. DOI: 10.1080/01496399808545318 (Impact Factor: 0.695)

**1999**

4. **Z.V.P. Murthy** and S.K. Gupta, Sodium Cyanide Separation and Parameters Estimation for Reverse Osmosis Thin-film Composite Polyamide Membrane, *Journal of Membrane Science*, Vol.154(No.1) (1999) 89-103. DOI: 10.1016/S0376-7388(98)00280-4 (Elsevier Scientific Publication, USA) (Impact Factor: 1.581)

**2001**

5. Samir Y.Vaidya, Amit V.Simaria and **Z.V.P. Murthy**, Reverse Osmosis Transport Models Evaluation: A New Approach, *Indian Journal of Chemical Technology*, Vol.8(No.5) (September 2001) 335-343. (National Institute of Science Communication and Information Resources (NISCAIR), CSIR, India) (Impact Factor: 0.197)

**2002**

6. Nipun Lamba, **Z.V.P. Murthy** and Raj Kumar, Membrane Processing of an Aqueous Waste Stream from Catalyst Manufacturing Plant, *Separation Science and Technology*, Vol.37(No.1) (2002) 191-202. DOI: 10.1081/SS-120000328 (Impact Factor: 0.862)

**2004**

7. **Z.V.P. Murthy** and M.M. Vora, Prediction of Reverse Osmosis Performance using Artificial Neural Network, *Indian Journal of Chemical Technology*, Vol.11(No.1) (January 2004) 108-115. (Impact Factor: 0.235)
8. **Z.V.P. Murthy**, Gautam Kaushik and Ritesh Suratwala, Treatment of Oily Water with Human Hair as a medium: A Preliminary Study, *Indian Journal of Chemical Technology*, Vol.11(No.2) (March 2004) 220-226. (Impact Factor: 0.235)

## 2005

9. Mousumi Chakraborty, **Z.V.P. Murthy**, Chiranjib Bhattacharya and Siddhartha Datta, Process Intensification: Extraction of Chromium(VI) by Emulsion Liquid Membrane, *Separation Science and Technology*, Vol.40(No.11) (2005) 2353-2364. DOI: 10.1080/01496390500202555 (Impact Factor: 0.834)

## 2006

10. M.T. Dhotre, **Z.V.P. Murthy** and N.S. Jayakumar, Modeling & Dynamic Studies of Heat Transfer Cooling of Liquid in Half-Coil Jackets, *Chemical Engineering Journal*, Vol.118(No.3) (2006) 183-188. DOI: 10.1016/j.cej.2006.02.008 (Elsevier Scientific Publication, USA) (Impact Factor: 1.594)
11. **Z.V.P. Murthy** and Jiju Cherian Vengal, Optimization of a Reverse Osmosis System Using Genetic Algorithm, *Separation Science and Technology*, Vol.41(No.4) (2006) 647-663. DOI: 10.1080/01496390500526854 (Impact Factor: 0.824)

## 2007

12. **Z.V.P. Murthy**, C. Nancy and Akash Kant, Separation of Pollutants from Restaurant Wastewater by Electocoagulation, *Separation Science and Technology*, Vol.42(No.4) (2007) 819-833. DOI: 10.1080/01496390601120557 (Impact Factor: 1.048)
13. John U Kennedy Oubagaranadin, N. Sathyamurthy and **Z.V.P. Murthy**, Evaluation of Fuller's Earth for the Adsorption of Mercury from Aqueous Solutions: A Comparative Study with Activated Carbon, *Journal of Hazardous Materials*, Vol.142(No.1-2) (2007) 165-174. DOI: 10.1016/j.jhazmat.2006.08.001 (Elsevier Scientific Publication, USA) (Impact Factor: 2.337)
14. **Z.V.P. Murthy** and Dhruv Joshi, Fluidized Bed Drying of Aonla (*Emblica officinalis*), *Drying Technology*, Vol.25(No.5) (2007)883-889. DOI: 10.1080/07373930701370290 (Taylor & Francis Group Publication, USA) (Impact Factor: 1.171)
15. Shaik Basha and **Z.V.P. Murthy**, Kinetic and Equilibrium Models for Biosorption of Cr(VI) on Chemically Modified Seaweed, *Cystoseira indica*, *Process Biochemistry*, Vol.42(No.11) (2007) 1521-1529. DOI: 10.1016/j.procbio.2007.08.004 (Elsevier Scientific Publication, UK) (Impact Factor: 2.336)

## 2008

16. Shaik Basha, **Z.V.P. Murthy** and B. Jha, Sorption of Hg(II) from Aqueous Solutions onto *Carica papaya*: Application of Isotherms, *Industrial & Engineering Chemistry Research*, Vol.47(No.3) (2008) 980-986. DOI: 10.1021/ie071210o (American Chemical Society Publication) (Impact Factor: 1.895)
17. **Z.V.P. Murthy** and Latesh B. Chaudhari, Separation of Cadmium Ions and Estimation of Membrane Transport Parameters of a Nanofiltration Membrane, *Indian Journal of Chemical Technology*, Vol.15(No.2) (March 2008) 107-112. (Impact Factor: 0.353).
18. Shaik Basha, **Z.V.P. Murthy**, and B. Jha, Biosorption of Hexavalent Chromium by Chemically Modified Seaweed, *Cystoseira indica*, *Chemical Engineering Journal*, Vol.137(No.3) (2008) 480-488. DOI: 10.1016/j.cej.2007.04.038 (Impact Factor: 2.813)
19. Shaik Basha, **Z.V.P. Murthy** and B. Jha, Isotherm Modeling for Biosorption of Cu(II) and Ni(II) from Wastewater onto Brown Seaweed, *Cystoseira indica*, *AIChE Journal*, Vol.54(No.12) (2008) 3291-3302. DOI: 10.1002/aic.11606 (American Institute of Chemical Engineers, USA) (Impact Factor: 1.883)
20. **Z.V.P. Murthy** and Latesh B. Chaudhari, Application of Nanofiltration for the Rejection of Nickel Ions from Aqueous Solutions and Estimation of Membrane Transport Parameters, *Journal of Hazardous Materials*, Vol.160(No.1) (2008) 70-77. DOI: 10.1016/j.jhazmat.2008.02.085 (Impact Factor: 2.975)

21. Alka G. Boricha and **Z.V.P. Murthy**, Preparation and Performance of *N,O*-Carboxymethyl Chitosan-Polyether Sulfone Composite Nanofiltration Membrane in the Separation of Nickel Ions from Aqueous Solutions, *Journal of Applied Polymer Science*, Vol. 110(No.6) (2008) 3596-3605. DOI: 10.1002/app.28970 (John Wiley & Sons, USA) (Impact Factor: 1.187)
22. **Z.V.P. Murthy** and Anant Raina, Treatment of Wastewater of Navy Blue-3G by Electrocoagulation, *International Journal of Chemical Reactor Engineering*, Vol.6 (2008) Note S2. DOI: 10.2202/1542-6580.1631 (The Berkeley Electronic Press, USA) (Impact Factor: 0.531)

## 2009

23. Shaik Basha, **Z.V.P. Murthy** and B. Jha, Removal of Cu(II) and Ni(II) from Industrial Effluents by Brown Seaweed, *Cystoseira indica*, *Industrial & Engineering Chemistry Research*, Vol.48(No.2) (2009) 961–975. DOI: 10.1021/ie801071w (Impact Factor: 1.758)
24. Alka G. Boricha and **Z.V.P. Murthy**, Preparation, Characterization and Performance of Nanofiltration Membranes for the Treatment of Electroplating Industry Effluent, *Separation and Purification Technology*, Vol.65(No.3) (2009) 282-289. DOI: 10.1016/j.seppur.2008.10.047 (Elsevier Scientific Publication, USA). (Impact Factor: 2.879)
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#### **LIST OF PAPERS PRESENTED AT NATIONAL LEVEL CONFERENCES:**

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**MEMBERSHIPS IN PROFESSIONAL BODIES****Member (M) / Life Member (LM) / Life Fellow (LF) of the Following Bodies:**

1. American Chemical Society (ACS), M-30022353. [2011]
2. American Nano Society (ANS), M. [2011]
3. Catalysis Society of India (CatSI), LM. [2001]
4. Computer Society of India (CSI), LM-67598. [2001]
5. Electrochemical Society of India (ECSI), LF-54. [2001]
6. Indian Desalination Association (InDA), LM-81. [2001]
7. Indian Institute of Chemical Engineers (IChE), LM-10209. [1993]
8. Indian Institute of Metals (IIM), LM-31902. [2001]
9. Indian Membrane Society (IMS), LM-141. [1996]
10. Indian Society for Technical Education (ISTE), LM-10214. [1992]
11. Indian Water Works Association (IWWA), LM-5464. [2007]
12. Institution of Engineers (India) (IE(I)), M/114608/9. [1997]
13. International Conference on Chemistry and Environment (ICCE), FW/z-5003. [2011]
14. Journal of Environmental Research and Development (JERAD), LF-203. [2011]
15. Society for Advancement of Electrochemical Science and Technology (SAEST), LF-595. [2000]
16. Systems Society of India (SSI), LM-11038. [1992]
17. SVP School, run by S.V. National Institute of Technology, Surat, Gujarat, Life Trustee [2004]