Tejraj M. Aminabhavi, PhD

[University of Texas at Austin, Texas, USA]

Director of Research, Center for Energy and Environment
School of Advanced Sciences, KLE Technological University, Hubballi, India 580 031
Diamond Jubilee Professor, Department of Chemistry
Karnatak University, Dharwad, India 580 003
Honorary Professor, Macquarie University, Sydney, Australia
Executive Editor, Chemical Engineering Journal (Elsevier, IF 13.4)
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https://scholar.google.co.in/citations?hl=en&user=JF_F_uUAAAAJ
https://orcid.org/0000-0002-5613-3916

Education

- Ph.D. (Polymer Science), (1975- 1979), University of Texas at Austin, Texas, USA
- M.Sc. (Physical Chemistry), (1968-1970), First Class, Karnatak University, Dharwad, India
- B.Sc. (Chemistry, Physics & Maths), (1964-1968), First Class, Karnatak College, Dharwad, India
- S.S.L.C., (1964), First Class and First, Municipal High School, Gadag, Karnataka, India

Editorships

- Executive Editor, Chemical Engineering Journal [Elsevier, IF: 13.4] (2013-)
- Founding Editor, Materials Science for Energy Technologies (KeAi) (2017-2023)
- Founding Editor, Sensors International, (KeAi) (2018-2023)
- Editor-in-Chief, Environmental Chemistry and Safety (2024-)

Awards (National/International)/Recognitions

- **World ranked 548 for the year 2023 D-Index 105; India ranked #2 (**https://rb.gy/zgweo**)**
- 2022, 2023 & 2024 - Research.com **Chemistry in India Leader Award**
- Highly Cited Researcher (top 1%) in the field of Cross-Field - 2022
- Highly Cited Researcher (top 1%) in the field of Cross-Field - 2021
- **Dr. Raja Ramanna State Award for Scientists**, Karnataka State Council for Science & Technology, Bangalore, India (year 2020)
- **The 18th Nikkei Asia Prize, Tokyo, Japan** (22nd May 2013): Discipline: Applied Polymer Science, Technology and Innovation

- Madurai Kamaraj University, **Indian Science Award**: Received from Vice Chancellor (Professor P. Maradamutthu), Madurai Kamaraj University, Madurai India (April, 2007)
- **CIPET Award for Research in Polymer Science and Technology** on "Polymers in Drug Delivery and Membrane Science", Fourth National Award (July 17th2014), Technology Innovation, Ministry of Fertilizers, Chemicals, and Petroleum, New Delhi, India
- **Diamond Jubilee Professor**, by Department of Chemistry, Karnatak University, Dharwad, India 580 003 (2021)
- American Chemical Society- Three Year Honorary Membership Award (2015-2018)
- Laureate of 22nd Kwarizmi International Award (KIA) in Polymer Science: Ministry of Science, Research and Technology, Iranian Research Organization for Science and Technology (IROST), Tehran, Iran: Received by President of Iran (Mahmoud Ahmadinejad), Tehran, Iran (Feb. 9th 2009) 2008-2009, Iranian Government
- Careers360 Faculty Research Awards 2023 in Chemistry
- **Dheemanta Sanmana Karnataka Rajyotsava**, for Research in Chemistry, received by Hubli-Dharwad Municipal Corporation, India, November 2023
- **Highly Ranked Scholar** – Lifetime Highly Cited Researcher 2024 by **Scholar GPS**
- 2023 & 2024 - **Top Cited Scholar** by Scilit

Editorial Board Memberships

- Journal of Environmental Management, Elsevier (2019-)
- Journal of Applied Polymer Science (Wiley) (1999-2009)
- Polymer Plastics Technology and Engineering (USA) (1999-2021)
- Global Transitions, KeAi (2019-)
- Environmental Protection Research (2021-)
- Advances in Pharmaceutical Sciences (2021-)
- Journal of Energy and Chemical Engineering (Bowen Publishing, New York)
- Journal of Pharmaceutical Care & Health Systems (Longdom Publishing, Spain)
- Journal of Polymer Sciences, Insight Medical Publishing, USA
- American Journal of Advanced Drug Delivery, USA (2020-)
- Green Biomaterials, Taylor & Francis (2023-)
- Pharmaceutical Breakthroughs, (2023-)
- Biomedical and Biotechnological Sciences (Medires Publishing, USA), ()
- Journal of Formulation Science, ISSN: 2577-0543 (Hilaris SRL, Belgium)
- Journal of Pharmaceutical Technology, Research And Management, Publisher Chitkara University Publications, India
- WebLog Journal of Analytical and Pharmaceutical Chemistry (2023-)
- **VSI - Carbon-Green-Energy** - Advanced Carbon and Functional Materials: Pioneering Sustainable Paths for Green Energy Transition, Chemical Engineering Journal (2024)
- **VSI - ValoBioPoly** - Valorization of Biopolymers and Biosolids from Wastewater, Chemical Engineering Journal (2024)
- Bioengineering, MDPI (2024-)
- Advanced Materials Science and Technology, AMST (2024-)
- Journal of Clinical Medicine and Research (2024-)
- Journal of Industrial Bioresource Engineering (2024-)
- Turkish Journal of Sensors and Biosensors (2024-)
- Green Energy and Green Chemicals (2024-)
- Environmental chemistry and safety (2024-)
- International Journal of Petroleum Technology (2025-)

International Advisory Board Memberships

- Asian Council of Science Editors, Dubai (2014-)
- Column Editor, Polymer News, Gordon Breach, New York, USA (1997-2006)
- Alan MacDiarmid (Nobel Laureate-2000) Energy Research Institute, Chonnam National University, Korea (2006)

Academic Appointments

- Director of Research, Center for Energy and Environment, School of Advanced Sciences, KLE Technological University, Hubballi, India (2021-)
- Founder Director, Center of Excellence in Polymer Science, Karnatak University, Dharwad, India (2002-2007).
- Professor (1995-2001) of Physical Chemistry, Karnatak University, Dharwad, India
- Reader (1985-1994) in Physical Chemistry, Karnatak University, Dharwad, India
- Lecturer (1982-1985) in Physical Chemistry, Karnatak University, Dharwad, India
- Lecturer in Chemistry (1970-1975), Karnatak College, Dharwad, India

Recent Assignments

- Invited Plenary Speaker at the 4th International Symposium on Carbon & Functional Materials for Energy & Environment (4th CMEE). February 19–22, 2025, at the Bali Botanical Gardens, Bali, Indonesia.
- Plenary Speaker, 1st International Conference on "Health, Environment, Education, and Research (CHEER2024)", "the 10th International Conference on Water Resource and Environment (WRE2024)", Tai Po Campus of the Education University of Hong Kong (December 2024)
- Presentation on "Health and environmental concerns of per- and polyfluoro alkylated substances", "Adsorptive Removal of Perfluorooctanoic Acid from Wastewater Using PVA@UiO-66-NH2/GO", "Adsorption and Storage of Hydrogen - A Computational Model Approach" at ACS Fall 2024, Denver, CO, USA. (August 18-22, 2024)
- Plenary Speaker, International Conference on Scientific Advances in Natural Sciences & Techniques (SAiNTS - 2024), "Carbon and Carbon-based Materials for Sustainable Energy and Environment", CHRIST (Deemed to be University), Bengaluru – 560029 (March, 2024)
- Plenary Speaker, 3rd International Symposium on Carbon & Functional Materials for Energy & Environment (3rd CMEE), Shilla Monogram Quangnam Danang & The University of Đà Nẵng, Vietnam (21st - 24th February, 2024)
- CEFIPRA - IRC Committee Member, Indo-French Center, New Delhi, India (2022-).
- CSIR Research Funding Committee Member (2020-2023).
- AICTE Emeritus Fellow (2012-2014), New Delhi, India
- CSIR Emeritus Scientist (2009-2012), New Delhi, India
- Scientific Advisor (2007-2012), Reliance Life Sciences, Navi Mumbai, India
- Director of Research, School of Advanced Sciences, KLE Technological University, Hubballi, India (2021-)
- Plenary Speaker, International Online Conference on Macromolecules, "100 Years of Polymer Science– From Past to Future", "Polymers in the service of mankind", Kottayam, Kerala, India & Gdansk University of Technology, Gdansk, Poland (Nov. 15th, 2020)
- Invited Plenary Speaker on "Emergent Materials for Energy and Environment", The 4thInternational Conference on Bioresources, Energy, Environment, and Materials Technology 2020 (BEEM2020), August, 2020, Seoul, Korea
- Invited Plenary Speaker, BWR 2019 at The International Environmental Engineering Conference & Annual Meeting of the Korean Society of Environmental Engineers, jointly with the 4th International Conference on Biological Waste as Resource 2019 (IEEC & BWR 2019), (December 10-13, 2019), Busan, Korea.
- Invited Plenary Speaker, BWR 2018, Membranes for Biowaste Mitigation, Third International Conference on Biologiocal Waste as Resource, (November, 2018), Hong Kong.
- Co-convenor with Prof W.E. Rudzinski at 67th Southwest Regional Meeting of American Chemical Society, Chemistry for Life, Energy in the International Year of Chemistry, Central Texas Section, ACS, at Double Tree Hotel, Austin, Texas, USA, 9thNovember, 2011.
- Technology and Science Writer for Nikkei Asian Review, Tokyo, Japan (2013-2016)
- Reviewer on Research Proposals-National Center of Science and Technology Evaluation, Ministry of Education and Science, Astana, Republic of Kazakhstan, December, 2014.
- Workshop Co-oganizer-Omics Group 4th International Conference on Pharmaceutics & Novel Drug Delivery Systems, San Antonio, Texas, USA (March-April, 2014).
- Workshop co-leader with Professor Alan Porter (Georgia Tech, Atlanta, USA) at the 5th National conference on Future-Oriented Technology Analysis (FTA)-Engage today to Shape Tomorrow, 27-28 November, 2014, Brussels, Belgium.

- Chemical Engineering Journal Elsevier Editor's Meetings: Istanbul, Turkey, August 31st 2014, December 17th, 2015 at Hawaii, October 30th, 2016, Rome, Italy, New York City, December 4th, 2017, New York City, September, 4th 2018, Dublin, Ireland, October, 24th 2019.

International Visiting Professorships/Meetings/Collaborations

- Visiting Adjunct Professor, Korea University, Seoul, Korea (2023-)
- IRC Committee Meeting, University of Bordeaux, France (May 25-27, 2023)
- Invited lectures at University of Lorraine and University of Nancy, France (2022, 2023)
- School of Environmental Engineering, Harbin Institute of Technology, Harbin, China (September 2018; May and December, 2019); Jinan University and China Agricultural University (Beijing) (December 2019)
- Lamar University, Beaumont, Texas, USA (Nov-Dec., 2017, August-September, 2018)
- Brain Pool Visiting Professor, Ulsan University (December, 2013); Chonnam National University, Gwangju, Korea, (2006, 2007/2008, 2013)
- Visiting Researcher, Cavendish Laboratory, University of Cambridge, UK and Department of Chemical Engineering, Qatar University, Doha, QATAR project on "Gas separation and water desalination membranes", (2009-2010)-
- Visiting Professor, National Taiwan University, Taipei, Taiwan, October, 2009.
- Visiting Professor, Schinchu University, Taiwan (2005)
- Professor Ilya Prigogine, Noble Laureate in Chemistry-1977 (visited in 2000, 2001, and 2002) on book writing project at the University of Texas, Austin, USA)
- Visiting Professor, Texas State University, San Marcos, USA (1981-1982, 1986, 1987, 1988, 1999, 2000 and 2001): Collaborations with Prof. P.E. Cassidy and Prof. W.E. Rudzinski
- Summer Research Professor, Chemistry Department, Lamar University, Beaumont, Texas, USA (1989, 1990, 1991, 1992, 1993, 1994, 1995 and 1996); Collaborations with Professors Shyam Shukla, Keith Hansen, Dale Ortego, John Idoux and Carl Yaws on Projects related to membrane-based environmental engineering and polymer science.
- University of Texas at Dallas, USA (2005): Collaboration with Professor Alan G. MacDiarmid, Nobel Laureate, Year 2000 in Chemistry
- UT Southwestern Medical Center, Dallas, USA (1995, 2002, 2003 and 2004): Collaborations with Professor P. Antich, Prof. J. Bonti and Prof. P.V. Kulkarni
- Team Delegate Member, Indo-French Centre for Advanced Research, France (April 1994)
- NSF Postdoctoral Fellow (1980-1981), Clarkson University, Potsdam, New York, USA: Collaboration with Professor J.P. Kratochivil and Ramesh Patel
- Robert Welch Foundation Research Fellow (1975-1979), University of Texas, Austin, USA: PhD Supervisor, Professor Petr Munk

Presidentship/Membership (India)

- Member, Indo-Danish National Expert Advisory Committee, Department of Science and Technology, New Delhi (2024-)
- Member, Indo-French Centre for the Promotion of Advanced Research (IFCPAR), Department of Science and Technology, New Delhi (2022-)
- CSIR Funding Committee, New Delhi (2020-2023)
- Chairman, Scientific Advisory Board, SDPC, Surat, India (2012-)
- Founder President, Society for Polymer Science, India (2003-2008)
- Vice-President, Indian Membrane Society (1996-2003)
- Member, Program Advisory Committee (Physical Chemistry), Department of Science and Technology, New Delhi (1999-2007)
- Member, Centres for Potential of Excellence UGC for Calcutta and Madurai Universities (2006-2007)
- Member, Standing Committee AICTE, New Delhi (1997-2000)
- Member, Apex Committee, Water Technology Mission, Karnataka State (1999-2000)

Industrial Consultancies

- Paul Hastings, New York City, New York (2015-2016)
- Reliance Life Sciences, Navi Mumbai (2007-2012)
- Bharath Heavy Electricals Limited (BHEL), Bangalore, India (2004-2007)

- Gujrat State Fertilizers Corporation, Vadodara, Gujarat, India (1996-2002)
- Texas Research Institute, Austin, Texas, USA (2006, 2007 and 2008)

Research Expertise/Experience

- **Materials for Energy and Environment:** Hydrogen production technologies, Carbon capture and carbon credits, Supercapacitors, Clean water production, Treatment of wastewater, Metal-organic frameworks, Quantum dots, Nanoparticles, Electrochemical methods for detoxification, Membrane-based separations
- **Membrane Technology:** Ultra and Nanofiltrations, Reverse osmosis, Biowaste mitigation technologies, Membrane bioreactors, Capacitive Deionization for water desalination, Nanomaterials for cleaner production
- **Pharmacy:** Nanomedicine, controlled release polymeric micro/nanoparticles, hydrogels, and transdermal delivery systems, drugs, proteins, peptides, genes, solid lipid nanoparticles, and pesticides
- **Theoretical:** Molecular modelling of polymers, QASR and docking studies on anti- tubercular drugs, Polymer modification and technology**,** Thermodynamics of polymer/solvent mixtures, and micelles

Patents

- Ion Exchange Membranes, Methods and Processes for production thereof and uses in specific applications, Part I, US Patent # 6814865 B1 20041109 (2004).
- Ion Exchange Membranes, Methods and Processes for production thereof and uses in specific applications, Part II, US Patent # 7442 US 2004 198849 AI 2004 1007.
- PAN-grafted PVA pervaporation membranes and methods of use, US Patent 2006, US 7045062, B 20060516.
- Novel copolymers for controlled release delivery system, 2010, WO2010113176A2.
- Oral insulin delivery systems for controlling diabetes, 2010, WO2010113177A3.
- Poly(n-vinyl caprolactam-coacrylamide) microparticles for controlled release applications, 2010, WO2010089763A2.
- Risk free and highly stable hyvis hydrogen storage tank and system thereof, 2024, 202441080835.
- High capacity and stable hyvis pro hydrogen storage tank and system thereof, 2024, 202441080836.
- Economical integrated hydrogen production and storage system and method thereof, 2024, 202441080837.
- Highly efficient integrated hydrogen storage and hydrogen supply system, 2024, 202441080838
- Highly efficient and economical hydrogen production and storage integrated system and method thereof, 2024, 202441080839
- A High Efficiency and stable ammonia-hydrogen storage tank and system thereof, 2024, 202441087833

HS Talks

- **Drug delivery for cancer therapeutics,** College of Pharmacy, India Published on July 28, 2021, duration: 52 min
- **Nanotechnology in cancer and insulin therapy**, College of Pharmacy, India Published on October 31, 2021, duration: 47 min

Reviewer for Scholarly Journals (Selected only)

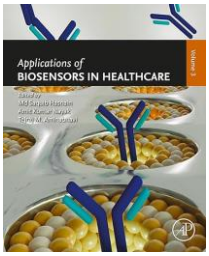
Advances in Environmental Research; Langmuir, The Journal of American Society, ACS Nano; ACS Materials; Nature; Advanced Materials; Advances in Water Resources; American Institute of Chemical Engineers Journal; Analytical Chemistry; Biomacromolecules; Macromolecules; Bioresource Technology; Biotechnology Progress; Carbon; Chemical Engineering Communications; Chemical Engineering Science; Chemical Engineering Journal; Chemosphere; Colloids and Surfaces A and B; Desalination; Environmental Engineering Science; Environmental Science & Technology; Industrial & Engineering Chemistry Research; Journal of Adhesion; Journal American Water Works Association; Journal of Chemical Engineering of Japan; Journal of Chemical Physics; Journal of Chemical Engineering Data. Fluid Phase Equilibria; Journal of Solution Chemistry; Journal of Colloid and Interface Science; Journal of Environmental Engineering; Journal of Hazardous Materials; Journal of Membrane Science;

Journal of Physical Chemistry; Nano Letters, Nature Nanotechnology; Reviews in Chemical Engineering; Separation and Purification Technology; Separation Science and Technology; Small; Transport in Porous Media; Water Environment Research; Water Research; Waste Management; Water Resources Research; Water Science and Technology; Journal of Controlled Research; Journal of Microencapsulation; Journal of Environmental Management; Chemosphere; International Journal of Hydrogen Energy; Chemical Communications; Catalysis Today; ACS Fuels and Energy; ACS Nano, Chemical Reviews; Progress in Polymer Science; Journal of Electrochemical Society; Electrochimica Acta; Colloids and Surfaces; International Journal of Pharmaceutics…….etc.,

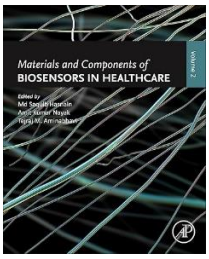
Selected Editorial/Guest Editorial Services

1. “Sustainable approaches for environmental remediation using metal-organic frameworks (MOFs) or covalent-organic frameworks (COFs)-based materials”, T.M. Aminabhavi, E.E Kwon, Y.F. Tsang, S.H. Jhung, L-B. Sun, Chemical Engineering Journal, 2023 (Ongoing).
2. "E-waste valorization by means of energy/resource recovery", T.M. Aminabhavi, E.E. Kwon, Y.F. Tsang, S.H. Jhung, L-B. Sun, Chemical Engineering Journal, 2023 (Completed).
3. "E-waste valorization by means of energy/resource recovery", T.M. Aminabhavi, E.E. Kwon, Y.F. Tsang, K. Kwon, Y. Wang, Chemical Engineering Journal, 2022 (Completed).
4. "Biofuels and biorefinery development through sustainable production processes and biomass utilization (2021)", T.M. Aminabhavi, E.E. Kwon, Y.F. Tsang, C.S.K. Lin, A. Bhatnagar, Y-K Park, T. Kim, Chemical Engineering Journal, 2021 (Completed).
5. "Novel chemical techniques for the detection and remediation of micro- and nano-plastics", T.M. Aminabhavi, Y.F. Tsang, E.E. Kwon, G. Ayoko, Y-K Park, F. Tack, Chemical Engineering Journal, 2020 (Completed).
6. "Environmental resilience and sustainability through carbon capture and utilization", T.M. Aminabhavi, E.E. Kwon, Y.F. Tsang, K-Y (Andrew) Lin, N. Klinghoffer, Chemical Engineering Journal, 2020 (Completed).
7. Guest Editor (with Professor E. Kwon, Korea, Y.F. Tsang, and others) for a Thematic Special Issue on “Environmental Resilience and Sustainability through Carbon Capture and Utilization”, Chemical Engineering Journal, 2020 (Completed).
8. Guest Editor (with Professor Yong Sik Ok, Korea and others) for a special issue on "Integrated Management of Environment, Water and Energy”, December, 2019, Busan, Korea, published in Chemical Engineering Journal 2020 (Completed).
9. Guest Editor (with Professor Y.F. Tsang, E. Kwon and others), special issue on “Occurrence, fate and removal of microfibres and microplastics in water treatment works and their potential environmental and health risks”, published in Chemical Engineering Journal 2020 (Completed).
10. “Novel processes for detection, treatment, and resource recovery of polymeric wastes”, T.M. Aminabhavi, Y.Fa. Tsang, E.E. Kwon, G. Ayoko, Y-K Park, Jörg Rinklebe, Chemical Engineering Journal, 2019 (Completed).
11. Editor-in-Chief: launched a new scientific journal with KeAi publishers under joint venture between Elsevier and Chinese Academy of Sciences, entitled “Sensor International” on electrochemical sensors related to environmental pollutants as editor-in-chief, 2019 (Ongoing).
12. “Thermochemical conversion of biowaste on energy and resource recovery and pollution abatement” T.M. Aminabhavi, Y.F. Tsang, E.E. Kwon, M.J. Castaldi, H.S. Choi, Jörg Rinklebe, Y.S. Ok, Journal of Chemical Engineering, 2018 (Completed).
13. Editor-in-Chief: launched a new scientific journal with KeAi publishers under joint venture between Elsevier and Chinese Academy of Sciences. The journal entitled “Materials Science for Energy Technologies”, 2017 (Ongoing).

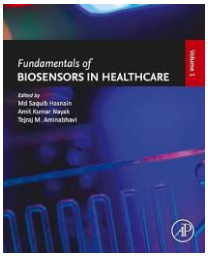
Books Editorship and Authorship



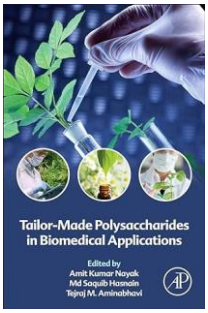
M.S. Hasnain, A.K. Nayak, **T.M. Aminabhavi**, **"Applications of Biosensors in Healthcare: Volume 3"**, Elsevier, **ISBN: 978- 0-443-21592-6, 2025**



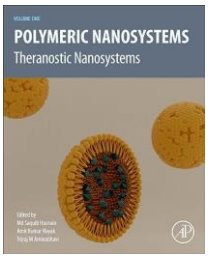
M.S. Hasnain, A.K. Nayak, **T.M. Aminabhavi**, **"Materials and Components of Biosensors in Healthcare: Volume 2"**, Elsevier, **ISBN: 978- 0-443-21676-3, 2025**



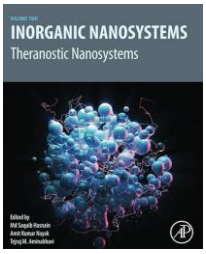
M.S. Hasnain, A.K. Nayak, **T.M. Aminabhavi**, **"Fundamentals of Biosensors in Healthcare: Volume 1"**, Elsevier, **ISBN: 978-0-443-21658-9, 2025**



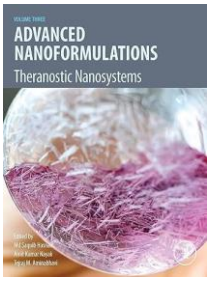
M.S. Hasnain, A.K. Nayak and **T.M. Aminabhavi, "Tailor-made Polysaccharides in Biomedical Applications**". Elsevier, Cambridge: UK. **ISBN**:**9780128213445, 2021**



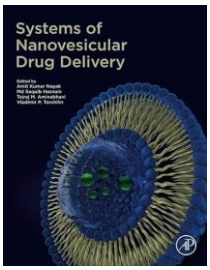
M.S. Hasnain, A.K. Nayak and **T.M. Aminabhavi, "TheranosticNanosystems"**. Vol I
ISBN:9780323856560



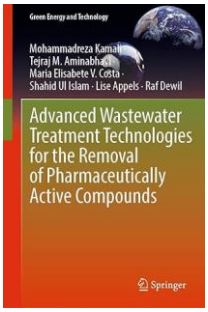
A.K. Nayak, Md.S. Hasnain, **T.M. Aminabhavi**, "Inorganic-based nanotheranostics: current status and challenges", **Inorganic Nanosystems**, 2, (2023), 1-41, https://doi.org/10.1016/B978-0-323-85784-0.00018-2
ISBN:9780323857840



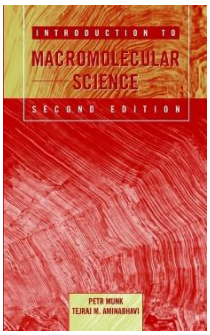
M.S. Hasnain, A.K. Nayak and **T.M. Aminabhavi, "TheranosticNanosystems"**. Vol III.
ISBN: 9780323857857



M.S. Hasnain, A.K. Nayak, **T.M. Aminabhavi,** and V. Torchilin**, "Nanovesicular Drug Delivery", Vol. I: "Nanovesicular Systems"; Vol. II: "Drug Delivery Applications",** Elsevier, Cambridge: UK, 2021.
ISBN:9780323918640



M. Kamali, **T.M. Aminabhavi**, M.E.V. Costa, S. Ul Islam, L. Appels, R. Dewil, **"Advanced Wastewater Treatment Technologies for the Removal of Pharmaceutically Active Compounds", Green Energy and Technology, Springer Nature,** Switzerland: 2023**.**
ISBN:9783031208058



Petr Munk (University of Texas at Austin, USA) and **Tejraj M. Aminabhavi** (Karnatak University, Dharwad), Title: **"Introduction to Macromolecular Science**", Wiley, New York, 2nd Ed., 2002.
ISBN:9780471417163

List of Publications

1. M. Vijayalakshmi, R. Wang, K.R. Reddy, C.V. Reddy, N. Bandaru, B. Dudem, J. Shim, **T.M. Aminabhavi**, "Hierarchical g-C3N4-nanosheet-covered nickel cobalt vanadate hydroxide (NiCoV@ g-C3N4) porous fibrous array hybrid electrodes for high performance asymmetric supercapacitors", **Chemical Engineering Journal**, 512, (2025). 126043, https://doi.org/10.1016/j.cej.2025.162043
2. T.P. Dao, **T.M. Aminabhavi**, Y. Vasseghian, S-W. Joo, "3D-printed TaSe2/WO3/ZnIn2S4 for increased photocatalytic degradation of rifampicin antibiotic: Role of reactive oxygen species and interfacial charge transfer", **Chemical Engineering Journal**, (2025), 161763 https://doi.org/10.1016/j.cej.2025.161763
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Invited Chapters in Books

1. N.P. Shetti, D.S. Nayak, K.R. Reddy, **T.M. Aminabhavi**, "Graphene–Clay-Based Hybrid Nanostructures for Electrochemical Sensors and Biosensors", **Elsevier,** (2019), 235-274. https://doi.org/10.1016/B978-0-12-815394-9.00010-8
2. N.P. Shetti, D.S. Nayak, K.R. Reddy and **T.M. Aminabhvi**, "Graphene-clay nanostructured hybrid based electrochemical sensors and biosensors", Chapter 10, **Elsevier**, 2018, https://doi.org/10. 1016/B978-0-12-815394-9.00010-8
3. K. R. Reddy, M. S. Jyothi, A. V. Raghu, V. Sadhu, **T. M. Aminabhavi**, and S.S. Shukla, "Nanocarbons and Polymers Supported on TiO2 Nanostructures: Methods, Mechanisms and their Applications as
4. Efficient Photocatalysts for Remediation of Contaminated Wastewater with Organic Pollutants" in "**Advances in Nanophotocatalysis and Environmental Applications**", Ch. 34, Springer, 2018. https://doi.org/10.1007/978-3-030- 12619-3_6
5. **T.M. Aminabhavi** and H. D. Suhas, "Production of Chitosan-based Hydrogels for Biomedical Applications", Chapter in Chitosan Based Biomaterials, Fundamentals, Vol 1, Edited by J. Amber Jennings and Joel D. Bumgardner, **Woodhead Publishing Series in Biomaterials**, Chapter, 12, pp. 295-319, (2016).
6. **T.M. Aminabhavi**, S.P. Dharupaneedi and U.A. More, "The Role of Nanotechnology and Chitosan Bbased Biomaterials for Tissue Engineering and Therapeutic Delivery", in Chitosan Based Biomaterials, Volumer 2, Edited by J. Amber Jennings and Joel D. Bumgardner, **Woodhead Publishing Series in Biomaterials**, Chapter 1, (2016), 1-29.
7. A.S. Deshmukh and **T.M. Aminabhavi**, "Pharmaceutical Applications of Various Natural Gums", Polysaccharides DOI 10.1007/978-3-319-03751-6_4-1 # **Springer International Publishing, Switzerland**, (2014), 1-30.
8. S.K. Nataraj and **T.M. Aminabhavi**, Chapter-4: Bisphenol A: Uses, Health Effects and Environmental Risks, In: Bisphenol A and Phthalates: Uses, Health Effects and Environmental Risks Edited By: Bradley C. Vaughn, 2009 **Nova Science Publishers**, Inc, New York, USA. ISBN: 978-1-60741701-9.
9. P.E. Cassidy, **T.M. Aminabhavi** and V.S. Reddy, "Heat Resistant Polymers", **Kirk-OthmerEncyclopedia of Chemical Technology**, 4th Ed., John Wiley & Sons, Inc., Vol. 12 (1994) 1045-1070.
10. **T.M. Aminabhavi**, S.B. Harogoppad and R.S. Khinnavar, "Measurement of Transport Coefficients of Organic Liquids into Polymer Membranes", **The Ohio Science Workbook: Polymers, The Ohio Academy of Science**, Columbus, Ohio, U.S.A. (1993) 72-74.

a. Nano matrials / Nano Biomedicine

i. S.P. Avvaru, M.N. Noolvi, **T.M. Aminbhavi**, S. Chakraborty, A. Dash and S.S. Shukla, "Aromatase Inhibitors Evolution as Potential Class of Drugs in the Treatment of Postmenopausal Breast Cancer Women", Mini-Reviews in Medicinal Chemistry, Bentham Science Publishers, 18 (2018).

b. Environmental Pollutant Separations/Transport via Polymer Membranes

i. G. Sriram, M.P. Bhat, P. Patil, U.T. Uthappa, Ho-Young Jung, T. Altalhi, T. Kumeria, **T.M. Aminabhavi**, R.K. Pai, Madhuprasad and M.D. Kurkuri, "Paper-based microfluidic analytical devices for colorimetric detection of toxic ions: a review", Trends in Analytical Chemistry, 93, (2017), 212-227.

ii. **T.M. Aminabhavi**, L.S. Manjeshwar and R.H. Balundgi, "A Review on Water and Water Vapor Permeation through Cellulosic and Water-Soluble Polymers", Quarterly Chem. Reviews, 2(1), (1986), 5-15.

Polymer Composites/Polymer Syntheses

i. P.E. Cassidy, **T.M. Aminabhavi** and V.S. Reddy, "Heat Resistant Polymers", Kirk- Othmer Encyclopedia of Chemical Technology, 4th Ed., **John Wiley & Sons, Inc.**, Vol. 12, (1994), 1045-1070.

ii. P.E. Cassidy, **T.M. Aminabhavi** and V.S. Reddy, "Innovations in Heat-Resistant Polymers", **Trends in Polymer Science**, 3, (1993), 67-79.

iii. R.W. Thomas, **T.M. Aminabhavi** and P.E. Cassidy, "Polyimidines-A New Class of Polymers", a Chapter in "New Monomers and Polymers", Plenum Press, New York (Eds. W.M. Culbertson and C.U. Pittman, Jr.), **Polymer Science and Technol.**, 25, (1984), 1-28, Chapter I.

Water Related Research Publications

In my laboratory, water research activities related to membrane-based separations such as microfiltration, ultrafiltration, nanofiltration, pervaporation, electrodialysis, reverse osmosis as well as mixed natural gas separation were extensively explored for more than two decades.

A. Nanofiltration/Microfiltration/Reverse Osmosis/Electrodialysis for Pure Water

1. S.K. Nataraj and **T.M. Aminabhavi**, "Electrodialytic Removal of Nitrate and Hardness of Simulated mixtures Using Ion-Exchange Membranes", **Journal of Applied Polymer Science,** 99, (2006), 1788-1794.

Water Research: Molecular Transport through Polymer Membranes

Water permeation studies through elastomeric membranes and polymer composites were extensively investigated to understand the fundamentals of membrane transport phenomenon.

1. B.K.K. Swamy, Siddaramaiah, B.V.K. Naidu and **T.M. Aminabhavi**, "Molecular Transport of *N*-Alkanes through Diol Chain Extended Polyurethane Membranes", **Journal of Applied Polymer Science**, 96, (2005), 874-882

Atomistic Simulations of Polymer Surfaces and Blends

Molecular modeling research was used to predict polymer blend compatibility, thermodynamic, transport and surface properties of polymers and dendrimers.

Polymer Composites/Polymer Syntheses

Polymer composites, polymer synthesis for coatings/biomedical applications and other engineering applications have been developed.

1. A.S. Deshmukh, P.S. Jain, P.N. Chauhan, **T.M. Aminabhavi**, V. Petwal and V. Verma, "Electron beam irradiation grafting of sialic acid onto polycaprolactone – New materials for biological application", **Materials Science for Energy Technologies**, 1, (2018), 77-83.
2. K.T. Kim, T.D. Dao, H.M. Jeong, R.V. Anjanapura and **T.M. Aminabhavi**, "Graphene Coated with Alumina and its Utilization as a Thermal Conductivity Enhancer for Alumina Sphere/Thermoplastic Polyurethane Composite", **Materials Chemistry and Physics**, 153, (2015), 29-300.

Polymer Membrabes and Drug-loaded Particles (nano/micro) in Biomedicine

Controlled release of bioactive molecules (drugs, genes, proteins, peptides, etc) using micro/nanoparticles, tableted microspheres, hydrogels and transdermal devices have been investigated using a variety of biopolymers as well as in their modified forms.

1. A.R. Kulkarni, K.S. Soppimath and **T.M. Aminabhavi**, "Polymeric Sodium Alginate Interpenetrating Network Beads for the Controlled Release of Chlorpyrifos", **Journal of Applied Polymer Science**, 85, (2002), 911918.
2. K.B. Gudasi, R.S. Vadavi, N.B. Shelke, M. Sairam and T.M. Aminahbavi, "Synthesis and Characterization of Novel Polyorganophosphazenes Substituted with 4- Methoxybenzylamine and 4-Methoxyphenethylamine for In Vitro Release of Indomethacin and 5-Fluorouracil", **Reactive and Functional Polymers**, 66, (2006), 1149-1157
3. S. Vijay Kumar, N.B. Shelke, S. Prasannakumar, B.S. Sherigara and **T.M. Aminabhavi**, "Microspheres of Copolymeric *N*-vinylpyrrolidone and 2-Ethoxyethyl Methacrylate for Controlled Release of Nifedipine", **Macromolecular Research**, 17, (2009), 1003-1009.

4. A.G. Sullad, L.S. Manjeshwar and **T.M. Aminabhavi**, "Floating Microspheres of Ethyl Cellulose and Pluronic F127 for Controlled Release of Acyclovir", **American Journal of PharmTech Research**, 4(3), (2014), 588605.
5. K. Chaturvedi, K. Ganguly, A.R. Kulkarni, W.E. Rudzinski, L. Krauss, M.N. Nadagouda and **T.M. Aminabhavi**, "Biochemical PharmacologyofNovel Ultra-small Nanoparticles of PEGylated Deoxycholic Acid Conjugated Polyhydroxybutyrate Copolymers for Oral Insulin Delivery" **Nanomedicine**, 10, (2015), 1569-1583.
6. K. Ganguly, A.R. Kulkarni and **T.M. Aminabhavi**, "In Vitro Cytotoxicity and In Vivo Efficacy of 5Fluorouracil Loaded Enteric Coated PEG-Crosslinked Chitosan Microspheres in Colorectal Cancer Therapy in Rats", **Drug Delivery**, 2015, DOI:10.3109/10717544.2015.1089955.
7. **T.M. Aminabhavi**, "Polysaccharide-Based Hydrogels as Biomaterials in Drug Delivery", **Journal of Pharma Care Health Systems**, (2015), 2:3.
8. J. Ma, A.L. Porter, **T.M. Aminabhavi** and D. Zhu, "Nano-enabled Drug Delivery Systems for Brain Cancer and Alzheimer's Disease: Research Patterns and Opportunities", **Nanomedicine: Nanotechnology, Biology and Medicine**, 11, (2015), 1763-1771.
9. J. Ma, A.L. Porter and **T.M. Aminabhavi**, "Nanoenabled Drug Delivery in Cancer Therapy: In Identifying Latent Relationships in Biomedical Literature Using the MeSH System", **Pharmaceutical Nanotechnology**, 4, (2016), 1-15.
10. V. Rajini Kanth, P.B. Kajjari, Priya M. Madalageri, S. Ravindra, L.S. Manjeshwar, **T.M. Aminabhavi**, V.S. Vallabhapurapu, "Blend Hydrogel Microspheres of Carboxymethyl Chitosan and Gelatin for the Controlled Release of 5-Fluorouracil", **Pharmaceutics**, 9, (2017), 1-13.

A1. Design of New Molecular Anti-Tubercular Agents

1. S.D. Joshi, S.R. Dixit, U.A. More, D. Kumar, **T.M. Aminabhavi** and V.H. Kulkarni, "3D- QSAR Studies of Quinoline Schiff Bases as Enoyl ACP Reductase Inhibitors", **Research and Reports in Medicinal Chemistry**, 4, (2014), 59-75.
2. More, S.D. Joshi, **T.M. Aminabhavi**, V.H. Kulkarni, A.M. Badiger, C. Lherbet, "Discovery of target based novel pyrrolyl phenoxy derivatives as antimycobacterial agents: An in silico approach", **European J. Medicinal Chemistry**, 94, (2015), 317-339.
3. S.D. Joshi, U.A. More, S. Sorathiya, D. Koli and **T.M. Aminabhavi**, "Pyrrolyl Thiazoles as Mycobacterium Inhibitors and Their *in silico* Analyses", **Research and Reports in Medicinal Chemistry**, 5, (2015), 1-20
4. S. D. Joshi, S. R. Dixit, S. Gadag, V. H. Kulkarni, T. M. Aminabhavi. "Molecular docking, synthesis, and antimycobacterial activities of pyrrolyl hydrazones and their copper complexes". **Research and Reports in Medicinal Chemistry**, 6, (2015), 1-14.
5. **T.M. Aminabhavi**, S. D. Joshi, "Novel anti-tubercular compounds based on substituted 1,3,4thiadiazole are on the uptrend", **Pharmaceutical Care & Health Systems**, 2, (2015) 1-2.
6. M. Poddar, T. M. Aminabhavi, M. Patel, N. Singh and M. N Noolvi. "HIF Inhibitors: New Hope for Cancer Therapy", **Letters in Drug Designm and Discovery**, 12(9), (2015), 736-753
7. S.D. Joshi, D. Kumar, U.A. More, K.S. Yang, T.M. Aminabhjavi, "Design and Development of Pyrrole Carbaldehyde: An Effective Pharmacophore for Enoyl-ACP Reductase", **Medicial Chemistry Research**, 25, (2016), 672-680.
8. S.D. Joshi, T. M. Aminabhavi. "QSAR and 3D-QSAR in drug design anti-tubercular drug discovery studies", **Pharmaceutical Care & Health Systems**, 3, (2016), 1-2.
9. S.D. Joshi and **T.M. Aminabhavi**, "Pyrrole Analogs as Novel Organic Molecules to Combat Tuberculosis", **Pharmaceutical Care & Health Systems**, Vol. 3, Issue 3, (2016), 143-144.
10. S.D. Joshi, Devendra Kumar, S.R. Dixit, A.S. Joshi and T. M. Aminabhavi, "Drug resistance at the genetic level in Mycobacterium species: A road map to counteract resistance", **Mini-Reviews in Organic Chemistry**, 13, (2016), 262-280.
11. S.D. Joshi, S.R. Dixit, V.H. Kulkarni, K.V.S.N. Raju, R. Narayan, **T.M. Aminabhavi**, "3D- QSAR and molecular docking studies of pyrazole derivatives as inhibitors of enoyl acyl carrier protein reductase from *Mycobacterium tuberculosis*", **Letters in Drug Design and Discovery**, 14, (2017), 414433.
12. S.D Joshi, S.R. Dixit, V.H. Kulkarni, S. Jalalpure, V. Kumbar, T.Y. Mudaraddi, M.N Nadagouda, and **T.M. Aminabhavi**, "Pyrrolyl pyrazoline carbaldehydes as enoyl-ACP reductase inhibitors: design, synthesis and antitubercular activity", **The Open Medicinal Chemistry Journal**, 11, (2017), 92102.

Polymer Solution Thermodynamics

Contributions in this area cover research on thermodyanmic, hydrodynamic and optics of polymer/micellar solutions that provided a sound theoretical basis for the experimental observations.

Thermodynamics of Liquid Mixtures

This research has led to extensive database on physical properties of liquids and liquid mixtures including the interpretations of intermolecular interactions and gas phase studies.

Metal Coordination Chemistry

This research was done in collaboration with late Prof. N.S. Biradar (Indiai) along with Professor W.E. Rudzinski(USA)that dealt with the synthesis and characterization of metal-organic compounds.

Short Research Papers, Notes and Communications on Miscellaneous Topics

Some short papers, notes and communications have been published on different topics thatand these are separately listed below.

1. **T.M. Aminabhavi** and P. Munk, "New Techniques of Polymer Characterization Using the Ultracentrifuge", J. Karnatak University, Science, 28, (1983), 96-103.
2. **T.M. Aminabhavi**, R.H. Balundgi and R.C. Patel, "Investigation of the Effect of Solvents on the Conformational Behavior of Polypropylene", **Journal of Polymeric Materials**, 3 (1986) 17-23.
3. K.H. Desai, A.R. Kulkarni, S.A. Agnihotri, K.B. Gudasi and **T.M. Aminabhavi**, "Solubility Enhancement of Rofecoxib in Water in the Presence of Hydrophic Polymers, Surfactants, Co-solvents and Small Molecules at 310.15 K", **Indian Journal of Chemistry**, 45, (2006), 1667-1669
4. U.S. Aithal, **T.M. Aminabhavi** and P.E. Cassidy, "Sorption and Diffusion of Monocyclic Aromatic through Polyurethane Membranes", **Polymer Preprints**, 30(1), (1989), 17-19.
5. S.B. Harogoppad, R.S. Khinnavar and **T.M. Aminabhavi**, "Diffusion and Sorption of Hydrocarbons through Polymer Films", **Polymer Science, Contemporary Themes**, Vol. II, S. Sivaram, Ed., Tata McGraw Hill Pub. Co. Ltd., New Delhi, (1991), pp. 646-649.
6. **T.M. Aminabhavi** and R.S. Munnolli, "Sorption and Diffusion into Fluropolymer Membranes", **Polymer Preprints**, 34(1), (1993), 451- 452.
7. A.R. Kulkarni, T.M. Aminabhavi, P.V. Kulkarni, V. Arora, C. Roney, A. Constantinescu, M. Bennet, P.P. Antich and F.J. Bonte, "Biodistribution of Polyalkylcyanoacrylate Nanoparticles Loaded with Radioiodine 125I LabeledIododeoxy Uridine In Mice", **International Journal of Plastics and Technology**, 8, (2004), 234-239.
8. **T.M. Aminabhavi** and P.E. Cassidy, "Moisture Effect on Physico-Mechanical Properties of Lightweight Polymer Composites", **Jounral of Polymer Material**, 2, (1985), 186-188.
9. K.S.V. Krishna Rao, I. Chung, B.G. Lokesh, K. Chowdoji Rao, M.C.S. Subha and **T.M. Aminabhavi**, "Compatibility of Chitosan/PVA Blends in Aqueous Acetic Acid Solutions at Various Temperatures", **Asian Chitin Journal**, 2, (2006), 21-28.
10. *S.K. Nataraj, B.H. Kim, M.D. Cruz, J. Ferraris, **T.M. Aminabhavi** and K.S. Yang, "Free Standing Thin Webs of Porous Carbon Nanofibers of Polyacrylonitrile Containing Iron- Oxide by Electrospinning", **Materials Letters**, 63, (2009), 218-220.
11. **T.M. Aminabhavi**, "Some Comments on the Cell Theory of Classical Fluids", **Z. Physik, Chem.**, (Leip zig), 266(5) (1985) S.1023-1027.

Popular Articles

As a contributing editor to the Polymer News (Gordon and Breach, New York, USA) between 1998 and 2005, several popular articles, reviews and conference reports have been published to create an awareness of the importance of polymers/plastics for academicians, industrialists and other entrepreneurs, as listed below.

1. **T.M. Aminabhavi** and R.C. Patel, "Fast Reaction Kinetics", Science Reporter, November, (1984) 582585.

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2. H. Mittal, O.S. Kushwaha, M. Nadagouda, G. Hegde, S. Allen, **T.M. Aminabhavi**, "Adsorption and storage of hydrogen-A computational model approach", ACS Fall 2024, Denver, CO, USA
3. K.S. Soppimath, P.V. Kulkarni and **T.M. Aminabhavi**, "Development of Floating Hollow Microspheres For The Controlled Release of Cardiovascular Drugs", American Association of Pharamaceutical Scientists, Orlando, USA, [Paper #2200], March 24-29th, 2001.
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22. S.A. Agnihotri and **T.M. Aminabhavi**, "Novel Interpenetrating Network Chitosan- Poly(Ethylene Oxide-g-Acrylamide) Hydrogel Microspheres for the Controlled Release of Capecitabine" Presented at the 32nd International Symposium on Controlled Release of Bioactive Materials, Miami, Florida, USA, June18-22th (2005).
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National and International Conference Presentations

For over thirty years of active research and teaching, several plenary lectures, invited talks, chief guest speeches and presentations have been made at the national and international level. These are listed below.

1. **T.M. Aminabhavi**, "Health and environmental concerns of per- and polyfluoro alkylated substances", ACS Fall 2024, Denver, CO, USA.
2. **T.M. Aminabhavi***, L. Havelka and P. Munk, "Measurement of Diffusion Coefficients of Polymer Solutions using Ultracentrifuge", Zonal Amer Chem. Soc., Meeting, Rocky Mountain Regional Meet. Boulder, Colorado, U S A, June 4-10th (1978).
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4. **T.M. Aminabhavi*** and R.C. Patel, "Use of Analytical Ultracentrifuge in the Mutual Diffusion Study of Binary Liquid Mixtures", Conference on Inorganic Reaction Mechanisms, Detroit, Michigan, USA, June 10th (1981).
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10. **T.M. Aminabhavi***, "Theoretical Aspects of Polymer Solution Thermodynamics", (An Invited Talk) 34th Annual Convention of Chemists, Annamalai University, Dec. 20-24th (1986).
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55. S.G. Kumbar, A.M. Dave and **T.M. Aminabhavi**, "Poly(Vinyl Alcohol)-grafted Poly(Acrylamide) Hydrogel and Its Interpenetrating Network for Controlled Release of Cypermethrin", 28th International Symposium on Controlled Release of Bioactive Materials [Paper # 4001], San Diego, CA, USA, June 23-27th (2001).
56. S.G. Kumbar, A.M. Dave and **T.M. Aminabhavi**, "Release of Pestcides Through Poly(Vinyl Alcohol)-grafted Poly(Acrylamide) Hydrogel Network Polymers", [Paper # 50], National Seminar on Advanced Polymeric Materials & Environmental Protection for the New Millennium, University of Madras, Chennai, India, July 26-27th (2001).
57. M.D. Kurkuri, U.S. Toti and **T.M. Aminabhavi**, "Syntheses and Characterization of Blend Membranes of Sodium Alginate and Poly(Vinyl Alcohol) for the Pervaporation Separation of Water-Isopropanol Mixturess", [Paper # 47], Presented at The National Seminar on "Advanced Polymeric Materials & Environmental Protection for the New Millennium", University of Madras, Chennai, India, July 26-27th (2001).
58. U.S. Toti, M.D. Kurkuri and **T.M. Aminabhavi**, "Pervaporation Separation of Water- Isopropanol Mixtures Through Blend Membranes of Sodium Alginate and Poly(Acrylamide)-grafted-Guar Gum" [Paper # 48], Presented at the National Seminar on "Advanced Polymeric Materials & Environmental Protection for the New Millennium", University of Madras, Chennai, India, July 26-27th (2001).
59. **T.M. Aminabhavi**, An Invited Talk on "Polymers In The Welfare Of Mankind/Environmental Pollution Issues", [Paper # 45], Presented at the National Seminar on "Advanced Polymeric Materials & Environmental Protection for the New Millennium", University of Madras, Chennai, India, July 26-27th (2001).
60. S.G.c Kumbar, A.M. Dave and **T.M. Aminabhavi**, "Poly(Vinyl Alcohol)-*grafted*-Poly(Acrylamide) Hydrogel and Its Interpenetrating Network for Controlled Release of Cypermethrin", Poceedings of The International Symposium on Controlled Release of Bioactive Materials, San Diego, CA, USA, 28th (2001) pp. 143-144.
61. K.S. Soppimath, C. Bhaskar and **T.M. Aminabhavi**, "Hollow Microspheres as Floating Drug Delivary Systems to Increase the Gastric Retention: Effect of Coexcipents on Floating and Release

Characteristics", Poceedings of the 28th International Symposium Controlled Release of Bioactive Materials, San Diego, CA, USA, June (2001) pp. 618- 619.

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63. **T.M. Aminabhavi**, Invited Talk on "Recent Trends on Polymeric Composites as Membrane Materials In Separation Science", AICTE Sponsored Short-Term Training Program, Department of Polymer Science and Technology, Sri Jayachamarajendra College of Engineering, Mysore, September 20th (2001).
64. S.G. Kumbar, A.R. Kulkarni and **T.M. Aminabhavi**, "Acrylic-Based PH-Sensitive Superabsobents for Controlled Release of a Pesticide and a Micronutrient", 29th International Symposium on Controlled Release of Bioactive Materials, Seol, South Korea, May (2002) p. 6.
65. S.G. Kumbar, K.S. Soppimath, A.R. Kulkarni and **T.M. Aminabhavi**, "Grafted Chitosan Microspheres for the Controlled Release of Indomethacin", 29th International Symposium on Controlled Release of Bioactive Materials, Seol, South Korea, May (2002) p. 442.
66. U.S. Toti, K.S. Soppimath and **T.M. Aminabhavi**, "New Controlled Release Diltiazem Hydrochloride Tablets: *In-Vitro* Release Study", 29th International Symposium on Controlled Release of Bioactive Materials, Seol, South Korea, May (2002) p. 197.
67. R.V. Kulkarni, A.R. Kulkarni and **T.M. Aminabhavi**, "Electrically Modulated Release of Diclofenac Salts from Carbopol and Sodium Alginate Gels", 30th International Symposium on Controlled Release of Bioactive Materials, Glasgow, Scotland, July (2003) p.823.
68. K.H. Desai, A.R. Kulkarni and **T.M. Aminabhavi**, "Topical Delivery of Rofecoxib Using Microemulsion Gel", 30th International Symposium on Controlled Release of Bioactive Materials, Glasgow, Scotland, July (2003) p. 798.
69. K.H. Desai, A.R. Kulkarni and **T.M. Aminabhavi**, "Enhancement of Dissolution Rate of Rofecoxib Using Polyethylene Glycols", 30th International Symposium on Controlled Release of Bioactive Materials, Glasgow, Scotland, July (2003) p. 542.
70. P.S. Yenkar, A.R. Kulkarni and **T.M. Aminabhavi**, "Blends of Bioresponsive Polymers In Ophthalmic Delivery of Drugs", 30th International Symposium on Controlled Release of Bioactive Materials, Glasgow, Scotland, July (2003) p. 366.
71. S.A. Agnihotri, A.R. Kulkarni and **T.M. Aminabhavi**, "A New Method for the Preparation of Chitosan Microparticles", 30th International Symposium on Controlled Release of Bioactive Materials, Glasgow, Scotland, July (2003) p. 349.
72. V.D. Kulkarni, A.R. Kulkarni and **T.M. Aminabhavi**, "Development Of Microparticles Using A New Stabilizer", 30th International Symposium on Controlled Release of Bioactive Materials, Glasgow, Scotland, July (2003) p. 276.
73. S.A. Agnihotri and **T.M. Aminabhavi**, "Controlled Release of Cephalexin Through Gellan Gum Beads", 31st International Symposium on Controlled Release of Bioactive Materials, Honolulu, Hawaii, USA, June 12-16th (2004) # 390.
74. S.A. Agnihotri and **T.M. Aminabhavi**, "Controlled Release of Carvedilol from the Interpenetrating Network Gellan Gum-Poly(Vinyl Alcohol) Hydrogel Microspheres", 30th Annual Meeting and Exposition, Society for Biomaterals, New Applications and Technologies, Memphis, Tennessee, USA, April 27-30th (2005).
75. S.A. Agnihotri and **T.M. Aminabhavi**, "Novel Interpenetrating Network Chitosan- Poly(Ethylene Oxide-g-Acrylamide) Hydrogel Microspheres for the Controlled Release of Capecitabine" Presented at the 32nd International Symposium on Controlled Release of Bioactive Materials, Miami, Florida, USA, June18-22th (2005).
76. S.A. Agnihotri and **T.M. Aminabhavi**, "Chitosan Nanoparticles for the Prolonged Ophthalmic Delivery of Timolol Maleate", Presented at The 32nd International Symposium on Controlled Release of Bioactive Materials, Miami, Florida, USA, June 18-22nd (2005).
77. R.C. Mundargi, S.A. Agnihotri, S.A. Patil and **T.M. Aminabhavi**, "Development of Polysaccharide Based Colon Targeted Drug Delivery Systems for the Treatment of Amoebisis", 2nd International Symposium on Drug Discovery and Process Research, KLE Society's College of Pharmacy, Belgaum, India, June (2006) P-15.
78. A.P. Rokhade, S.A. Agnihotri, S.A. Patil and **T.M. Aminabhavi**, "Semi-Interpenetrating Polymer Network Microspheres of Gelatin and Sodium Carboxymethyl Cellulose for the Controlled Release of Ketorolac Tromethamine", 2nd International Symposium on Drug Discovery and Process Research, KLE Society's College of Pharmacy, Belgaum, India, (2006) P-16.

79. K.M. Reddy, K.S.V. Krishna Rao, M.C.S. Subha and **T.M. Aminabhavi**, "Novel Chitosan-Based Interperpenetrating Network Microspheres for the Controlled Release of 5-Fluorouracil", National Seminar on "Role of Chemistry in Emerging Areas of Biology and Industries", Department of Chemistry, S.K. University, Anantapur, March (2006) P- 29.
80. K.S.V. Krishna Rao, M.C.S. Subha, B.V.K. Naidu, M. Sairam, N.N. Mallikarjuna and **T.M. Aminabhavi**, "Novel Carbohydrate Polymeric Blend Membranes in Pervaporation Dehydration of Acetic Acid", National Seminar on "Role of Chemistry In Emerging Areas of Biology and Industries", Department of Chemistry, S.K. University, Anantapur, March (2006) P-83.
81. K.S.V. Krishna Rao, M.C.S. Subha, M. Sairam, N.N. Mallikarjuna and **T.M. Aminabhavi**, "Blends Membranes of Chitosan and Poly(Vinyl Alcohol) In Pervaporation Dehydration of Isopropanol and Tetrahydrofuran", National Seminar on "Role of Chemistry In Emerging Areas of Biology and Industries", Department of Chemistry, S.K. University, Anantapur, March (2006) P-84.
82. M. Sairam, V. Ramesh Babu, B.V.K. Naidu and **T.M. Aminabhavi**, "Encapsulation Effiency and Controleld Release Characteristics of Crosslinked Hydrophilic Polyacrylamine Microparticles", National Seminar on "Role of Chemistry in Emerging Areas of Biology and Industries", Department of Chemistry, S.K. University, Anantapur, March (2006) P-111.
83. N.B. Shelke, M. Sairam, S.B. Halligudi and **T.M. Aminabhavi**, "Development of Transdermal Drug Delivery Systems Using Castor Oil Based Polyurethanes", National Seminar on "Role of Chemistry in Emerging Areas of Biology and Industries", Department of Chemistry, S.K. University, Anantapur, March (2006) P-114.
84. M. Sairam, M.B. Patil, R.S. Veerapur, S.A. Patil and **T.M. Aminabhavi**, "Novel Dense Poly(Vinyl Alcohol)-Tio2 Mixed Matrix Membranes for Pervaporation Separation of Water-Isopropanol Mixtures at 30^0c", National Seminar on "Role of Chemistry In Emerging Areas of Biology and Industries", Department of Chemistry, S.K. University, Anantapur, March (2006) P-112.
85. S.B. Teli, G.S. Gokavi, M. Sairam and **T.M. Aminabhavi**, "Phosphomolybdic Heteropolyacid Loaded Poly(Vinyl Alcohol) Dense Matrix Membranes for Pervaporation Separation of Water-Isopropanol Mixtures", National Seminar on "Role of Chemistry in Emerging Areas of Biology and Industries", Department of Chemistry, S.K. University, Anantapur, March (2006) P-115.
86. V. Ramesh Babu, M. Sairam and **T.M. Aminabhavi**, "Development of 5-Fluorouracil- Loaded Poly(Acrylamide-co-Methyl Methacrylate) Novel Core-Shell Microspheres: *In Vitro* Release Studies, National Seminar on "Role of Chemistry in Emerging Areas of Biology and Industries", Department of Chemistry, S.K. University, Anantapur, March (2006) P-114.
87. **T.M. Aminabhavi**, Invited Talk on "Polymers as Membranes and Drug Delivery Devices", Proceedings of National Conference on Recent Trends in Polymer Science and Technology, Department of Chemistry, PSG College of Technology, Coimbatore, July 14-15th (2006).
88. **T.M. Aminabhavi**, Invited Talk on "Polymers in The Service of Mankind", UGC Sponsored State Level Seminar on Recent Trends in Chemistry, Basaveshwar Science College, Bagalkot, September, 9th (2006).
89. A.P. Rokhade, S.A. Patil and **T.M. Aminabhavi**, "Preparation and Characterization of Semiinterpenetrating Polymer Network Microspheres of Chitosan and Hydroxypropyl Cellulose for the Controlled Release of Chlorothiazide", (Article No. 877), 33rd Annual Meeting & Exposition of the Controlled Release Society, Vienna, Austria, July 22-26th (2006).
90. V. Ramesh Babu, M. Sairam and **T.M. Aminabhavi**, "Synthesis and Characterization of Thermoresponsive Microspheres for Controlled Release of Atenolol", (Article No. 399), 33rd Annual Meeting & Exposition of the Controlled Release Society, Vienna, Austria, July 22-26th (2006).
91. S.G. Adoor, L.S. Manjeshwar, B. Prathab and **T.M. Aminabhavi**, "Mixed Matrix Membranes for Pervaporation Dehydration of Aqueous Streams of Isopropanol-an Experimental and Theoretical Study", Macro 2006, NCL, Pune, December 17-20th (2006) (poster presentation).
92. A.P. Rokhade, S.A. Patil and **T.M. Aminabhavi**, "Synthesis and Characterization of Semiinterpenetrating Polymer Network Microspheres of Acrylamide *grafted* Dextran and Chitosan for Controlled Release of Acyclovir", Macro 2006, NCL, Pune, December 17-20th (2006) (poster presentation).
93. S.D. Bhat and **T.M. Aminabhavi**, "Zeolite 4A Filled Sodium Alginate Membranes for Pervaporation", Macro 2006, NCL, Pune, December 17-20th (2006) (poster presentation).
94. S.K. Nataraj, M. Sairam, S. Roy, B. Swaminathan and **T.M. Aminabhavi**, **"**Preparation, Modification and Characterization of Ceramic Membrane Modules for Water Treatment", Macro 2006, NCL, Pune, December 17-20th (2006) (poster presentation).
95. S.K. Nataraj, S. Sridhar, I.N. Shaikh, D.S. Reddy and **T.M. Aminabhavi**, "An Efficient Membranebased Microfiltration/Electrodialysis Hybrid Process for the Treatment of Paper Industry Waste Water", Macro 2006, NCL, Pune, December 17-20th (2006) (poster presentation).

96. V. Ramesh Babu, M. Sairam, B. Sreedhar and **T.M. Aminabhavi**, "Novel Thermo- responsive Nanospheres for Controlled Release of Atenolol", Macro 2006, NCL, Pune, December 17-20th (2006) (poster presentation).
97. R.S. Veerapur, S. Sridhar, M.B. Patil, K.B. Gudasi and **T.M. Aminabhavi**, "Matrimid Polyimide Membranes for the Separation of Carbon Dioxide from Methane", Macro 2006, NCL, Pune, December 17-20th (2006) (poster presentation).
98. D. Anjali Devi, B. Smitha, S. Sridhar and **T.M. Aminabhavi**, "Pervaporation Separation of Dimethylformamide/Water Mixtures Through Poly(vinyl alcohol)/ Poly(acrylic acid) Blend Membranes", Macro 2006, NCL, Pune, December 17-20th (2006) (poster presentation).
99. S. Sridhar, **T.M. Aminabhavi** and S. Mayor, "Development of Poly(ether-*block*-amide) Membranes for Deacidification of Natural Gas", Macro 2006, NCL, Pune, December 17- 20th (2006) (poster presentation).
100. B. Prathab, V. Subramanian and **T.M. Aminabhavi**, "Computation of Surface Energy and Surface Segregation Phenomena of Perfluorinated Copolymers and Blends - A Molecular Modeling Approach", Macro 2006, NCL, Pune, December 17-20th (2006) (poster presentation).
101. M.B. Patil, R.S. Veerapur, S.A. Patil, C.D. Madhusoodana and **T.M. Aminabhavi**, "Preparation and Characterization of Filled Matrix Membranes of Sodium Alginate Incorporated with Aluminumcontaining Mesoporous Silica for Pervaporation Dehydration of Alcohols", Macro 2006, NCL, Pune, December 17-20th (2006) (poster presentation).
102. S.S. Jawalkar and **T.M. Aminabhavi**, "Molecular Modeling on the Binary Blend Compatibility of Poly(vinyl alcohol) and Poly(methyl methacrylate) - An Atomistic Simulation and Thermodynamic Approach", Macro 2006, NCL, Pune, December 17-20th (2006) (poster presentation).
103. A.V. Raghu, G.S. Gadaginamath, N. Mathew, S.B. Halligudi and **T.M. Aminabhavi**, "Synthesis and Characterization of Novel Polyurethanes Based on 4,4'-[1,4- phenylenedi-diazene-2,1diyl]bis(2-carboxyphenol) and 4,4'-[1,4-phenylenedi-diazene- 2,1-diyl]bis(2-chlorophenol) Hard Segments", Macro 2006, NCL, Pune, December 17- 20th (2006) (poster presentation).
104. A.V. Raghu, G.S. Gadaginamath, S.S. Jawalkar, S.B. Halligudi and **T.M. Aminabhavi**, "Synthesis, Characterization and Molecular Modeling Studies on Novel Polyurethanes based on 2,2'-{ethane1,2-diylbis(nitrilomethyl- ylidene)}diphenol and 2,2'-{hexane-1,6- diylbis(nitrilo methyl- ylidene)}diphenol Hard Segments", Macro 2006, NCL, Pune, December 17-20th (2006) (poster presentation).
105. N.B. Shelke, M. Sairam and **T.M. Aminabhavi**, "Preparation and Characterization of Novel Poly(sebacic anhydride-*co*-pluronic-F68/F127) Microspheres for Controlled Release of Nifedipine", Macro 2006, NCL, Pune, December 17-20th (2006) (poster presentation).
106. K.B. Gudasi, R.S. Vadivi, M. Sairam and **T.M. Aminabhavi**, "Synthesis and Characterization of Coumarin Substituted Polyorganophosphazenes", Macro 2006, NCL, Pune, December 17-20th (2006) (poster presentation).
107. R.C. Mundargi, S.A. Agnihotri, S.A. Patil and **T.M. Aminabhavi**, "Evaluation and Controlled Release Characteristics of Modified Xanthan Films for Transdermal Delivery of Atenolol", Macro 2006, NCL, Pune, December 17-20th (2006) (poster presentation).
108. S.B. Teli, G.S. Gokavi, M. Sairam and **T.M. Aminabhavi**, "Highly Water Selective Silicotungstic acid (H4SiW12O40) Incorporated Novel Sodium Alginate Hybrid Composite Membranes for Pervaporation Dehydration of Acetic Acid", Macro 2006, NCL, Pune, December 17-20th (2006) (poster presentation).
109. K.M. Reddy, V. Ramesh Babu, M. Sairam, M.C.S. Subha, K. Chowdoji Rao and **T.M. Aminabhavi**, "Preparation and Characterization of Atenolol-Loaded Cellulose Acetate Butyrate-Poly(vinyl pyrrolidone) Blend Microspheres: *In Vitro* Release Studies"**,** Macro 2006, NCL, Pune, December 17-20th (2006)
110. **T.M. Aminabhavi**, Invited Talk on "Molecular Modeling of Polymers. An Atomistic and Mesoscopic Approach. Why is it Important? Some Case Studies", Macro 2006, NCL Pune, 17th Dec., (2006).
111. **T.M. Aminabhavi**, Invited Talk on "Polymeric Nanomaterials in Engineering and Medical Applications", National Conference on Advances in Materials Science, Gulbarga University, Gulbarga, January 18-19th (2007).
112. **T.M. Aminabhavi**, Invited Talk on "Nanotechnology in Novel Drug Delivery Systems", Emerging Trends in Advanced Drug Delivery Systems, Luqman College of Pharmacy, Gulbarga, January 2021st (2007).
113. **T.M. Aminabhavi**, "Polymers as Nanocarriers for Brain Delivery", National Symposium, Departrment of Chemistry, M.S. University of Baroda, Baroda, 15th March (2007).
114. **T.M. Aminabhavi**, "Membranes and Membrane-based Processes in Petrochemical Industries", National Symposium on Advances in Polymer Science and Technology, IPCL, Baroda, March 16th (2007).

115. **T.M. Aminabhavi**, "Accelerating March- Sectorial Snapshot in Nanotechnology", Baroda Management Association, 18th Annual Management Convention, Baroda, March 17th (2007).
116. **T.M. Aminabhavi**, "Polymers in Membrane-based Separations, Drug Delivery, Molecular Modeling", an invited talk at Chemistry Department, Indian Institute of Technology, Powai, Mumbai, March 19th (2007).
117. **T.M. Aminabhavi**, "Drug Delivery through Polymeric Matrices", Invited talk at Dhirubhai Ambani Life Sciences, Navi Mumbai, March 20th (2007).
118. S.K. Nataraj, B.H. Kim, B.T.N. Ngoc, J. Ferraris, **T.M. Aminabhavi** and K.S. Yang, "PAN-Based Highly Porous Carbon Nanofibers", ICAM-2008: International Conference on Advanced Materials, Kottayam, Kerala, January (2008).
119. S.K. Nataraj, B.H. Kim, B.T.N. Ngoc, J. Ferraris, **T.M. Aminabhavi** and K.S. Yang, "Electrochemical Performance of Free Standing Porous Carbon Nanofibers of Polyacrylonitrile Containing Iron Oxide", Conference of Korean Carbon Society, Deajon, South Korea, 10-11 April (2008).
120. S.K. Nataraj, B.H. Kim, B.T.N. Ngoc, J. Ferraris, **T.M. Aminabhavi** and K.S. Yang; "Effect of Added Nickel Nitrate on the Morphology and Physico-chemical Properties of PolyacrylonitrileBased Carbon Nanofibers", Conference of Korean Carbon Society Deajon, South Korea, 10-11 April (2008).
121. **T.M. Aminabhavi**, "Polymers from Renewable Sources", an invited talk at Indian Institute Chemical Technology, Hyderabad, July 22nd (2008).
122. **T.M. Aminabhavi**, Invited guest lecture on "Polymers in the Service of Mankind", National Conference-Futuristic Polymer Materials-RVCE, R.V. College of Engineering, Bangalore, September 22nd (2008).
123. **T.M. Aminabhavi**, Invited Guest Lecture on "Recent Trends in Polymer Science and Technology", PSG College of Technology, Coimbatore, November, 22nd (2008).
124. **T.M. Aminabhavi**, Chief Guest Lecture on" Developments in Polymer Science", at "National Conference on Novel Polymeric Materials", presented at Stella Maris College, Chennai in Collaboration with CLRI, Chennai, January 20, 2009.
125. S. Shakeel, V. Reddy, N. Revgade, V. Ramesh Babu, R.C. Mundargi, V. Rangaswamy, **T.M. Aminabhavi**, A.S. Manoj Kumar, "Optimization of In-house Delivery Systems for Antiviral siRNA Duplexes: Setbacks and Promises in a THP-IBD Joint Effort", Poster Presentation at Vth Dhirubhai Ambani Life Sciences Symposia Series, International Symposium on "Recent Advances in Biotherapeutics", Reliance Life Sciences Centre, Navi Mumbai, February 13-14th (2009).
126. R.C. Mundargi, V. Rangaswamy and **T.M. Aminabhavi**, "Thermosensitive Semi- Interpenetrating Polymer Network Microspheres for Controlled Release of Atenolol",10th International Symposium of Controlled Release Society on "Advances in Technology and Business potential of New Drug Delivery Systems", Feb 17-18th, 2010, Mumbai.
127. **T.M. Aminabhavi**, "Chief Guest Lecture at Karnatak Science College, Dharwad, on Electron Discovery to Polymers", April 28th, 2010.
128. **T.M. Aminabhavi**, "Chief Guest Lecture on My Experiences at Cavendish Laboratory in Cambridge University, UK", GSS College, Belgaum, October 11th, 2010.
129. **T.M. Aminabhavi**, "Keynote lecture on diverse applications of polymers", PPISR, Bangalore, 7thJuly, 2011.
130. **T.M. Aminabhavi**, "Recent Advances in Polymer Science", at the Department of Chemistry, National Institute of Technology, Surtakal, 1stAugust, 2011.
131. **T.M. Aminabhavi**, "Polymers in Industry and Biology", Frontier Lecture Series on Science and Technology, Karnatak Science College, Dharwad, 18th August, 2011.
132. **T.M. Aminabhavi**, Chief Guest, "Polymers in Medicine", KLE College of Science and Arts, Gokak, September, 2011.
133. **T.M. Aminabhavi**, "The role of polymers in pharmaceutical sciences", Chief Guest at the Induction Program of UG and PG Pharmacy Students, Dhanwantary Pharmacy College, KIM, Surat, September 21st, 2011.
134. **T.M. Aminabhavi**, "Vision Group Seminar on International Year of Chemistry-Nobel Laureates in Chemistry", Karnatak College, Dharwad, October, 10th, 2011.
135. **T.M. Aminabhavi**, "Membrane Technology", Chemical Engineering Department, University of Cincinnati, Ohio, USA, 4th November 2011.
136. **T.M. Aminabhavi**, Invited Talk on "Gene Delivery Approaches to Combat Global Health Problems", Department of Chemistry and Biochemistry, Texas State University, San Marcos, Texas, USA, November, 7th, 2011.

137. **T.M. Aminabhavi**, "Developments in Indian Biotechnological Industries", Business School, Texas State University, San Marcos, November, 8th, 2011.
138. **T.M. Aminabhavi**, Invited talk on "Non-viral Vectors for siRNA Delivery", 67th Southwest Regional Meeting of the American Chemical Society, Chemistry for Life, Energy in the International Year of Chemistry, Central Texas Section of the ACS, Double Tree Hotel, Austin, Texas, USA on 9thNovember, 2011.
139. **T.M. Aminabhavi**, Chief Guest and Invited Talk on "Biodegradable Polymers in Pharmacy", Allana College, Pune, December, 2011.
140. **T.M. Aminabhavi**, Chief Guest Lecture on "Versatile Polymers in Industry and Commerce", Gogte Institute of Technology, Belgaum, December, 2011.
141. **T.M. Aminabhavi**, PPISR, Futuristic Polymeric Materials, Vision Group on Science and Technology Refresher Course in Chemistry for Undergraduate College Teachers February 8th, 2012.
142. **T.M. Aminabhavi**, "Biodegradable Polymers in Controlled Drug Delivery", Naragund College of Pharmacy, Bangalore, Feb. 9th, 2012.
143. **T.M. Aminabhavi**, KLE Society's RLS College of Science, Belgaum, Chemistry in the Service of Mankind, Is the Journey Infinite? Vision Group on Science and Technology Refresher Course in Chemistry for PU Teachers,11thFebruary, 2012.
144. **T.M. Aminabhavi**, "Key Note Lecture on Novel Innovations and Challengesin Controlled Drug Delivery", Hyderabad, DRUG DELIVERY INDIA 2012, Innovations in Pharmaceutical and Manufacturing Sciences, Hyderabad, Novotel Hotel, February 24- 25, 2012.
145. **T.M. Aminabhavi**, Chief Guest of Science Day Celebrations-Lecture on "Scientific Discoveries- A Path to Modern Cicvilization", JSS College, Dharwad, 13thMarch, 2012.
146. **T.M. Aminabhavi**, Key Note Speaker on "Emerging Membrane-Based Technologies in Separations at the Indo-US seminar on waste minimization, treatment and recovery, risk and Hazard management in pharmaceutical and electroplating industries, solvent recycling and lead acid battery processing units and common effluent treatment plants", Bangalore, India, July 27-28, 2012.
147. **T.M. Aminabhavi**, Chief Guest Lecture on "Drug Delivery Applications of Polymers", at Dhanvantary College of Pharmacy, Kim-Surat, Gujrat, July 30-31, 2012.
148. C.D. Madhusoodan, M.B. Patil and **T.M. Aminabhavi**, "Ceramic Supported Composite Membranes of Hydroxy Ethyl Cellulose Loaded with Al-MCM-41 for CO2 Separation", Talk presented at Euromembrane, Imperial College, London, Queen Elizabeth II Conference Centre, London, 23-27 September, 2012.
149. G.S. Gokavi, M.G. Mali, U.V. Desai and **T.M. Aminabhavi**, "Highly Selective Mixed Matrix Blend Membranes of Poly(vinyl alcohol)-Poly(vinly pyrrolidone) Incoporating Phosphomolybdic Acid for Application in Pervaporation Assisted Esterification of Acetic Acid with Ethanol", Poster presented at Euromembrane, Imperial College, London, Queen Elizabeth II Conference Centre, London, 2327 September, 2012.
150. Pervaporation separation of water-isopropanol mixtures using novel sodium alginate membranes
151. Rajaneekanth. V, S.G. Adoor, **T.M. Aminabhavi**, Chowdoji. R.K, "Presented at 3rd International Multi-composite Polymer Conference", M.G. University, Kottayam, March 2012.
152. **T.M. Aminabhavi**, Invited lecture on "Polymeric Nanohydrogels for Cancer and Insulin Therapy", National Workshop on Recent Advances in Drug Delivery 2013", Ramanbhai Patel College of Pharmacy, CHARUSAT, Changa, Gujarat, 21-23 February 2013.
153. **T.M. Aminabhavi**, Keynote lecture on "Nanodelivery Strategies in Cancer Therapy: Biological Rationale Pharmaceutical Perspectives", 2nd International Confeence on "Emerging Trends in Drug Research and Development", Shree Dhanvantary Pharmacy College, Kim-Surat, Gujarat, 30th and 31st March 2013.
154. U. A. More, S. D. Joshi, **T.M. Aminabhavi**, V. H. Kulkarni. "Design, synthesis, molecular docking and 3D-QSAR studies of potent inhibitors of enoyl-acyl carrier protein reductase as potential antimycobacterial agents. Oral presentation", OO-29, 138, XXXII Annual Conference of the Indian Council of Chemists, Department of Studies In Chemistry, Karnatak University, Dharwad, Karnataka, 28th - 30th Nov, 2013.
155. **T.M. Aminabhavi**, Presented an Invited Talk on "Polymeric Nanoparticles as Drug Delivery Systems" University of Ulsan, Ulsan, Korea, on December 18th, 2013.
156. **T.M. Aminabhavi**, Presented an Invited Talk on "Membrane Separations and Drug Delivery", Chonnam National University, Gwangju, Korea, on December 20th, 2013.

157. **T.M. Aminabhavi**, Guest lecture at GSS College, Belgaum, UGC sponsoered "Recent Advances in Polymer Materials" on the topic of "Polymers as Membranes in Separations and Pharmacy" on 31stJanuary, 2014.
158. **T.M. Aminabhavi**, Chief Guest Lecture on "Polymers in Pharmacy and Medicine", UGC sponsored "Emerging Trends in Chemical Sciences", at P.C. Jabin Science Colege, Hubli, 25thFebruary, 2014. 158. **T.M. Aminabhavi**, Chief Guest Lecture on "How Chemistry Played a Role-The Future of Medicine", GUJCOST (DST) National Conference on Present and Future Challenges in Pharmacy Education, Shree Dhanvantary Pharmacy College, Surat-Kims, 7th and 8thMarch, 2014.
159. **T.M. Aminabhavi**, Key-note speaker at Omics Group 4th International Conference and Exhibition on Pharmaceutics & Novel Drug Delivery Systems, Topic: "Ultra-small nanoparticles of PEGylated deoxycholic acid conjugated polyhydroxybutyrate block copolymers for targeted delivery of therapeutics", Hilton, San Antonio, March 24-26, 2014.
160. **T.M. Aminabhavi**, Workshop leader, Title: "Forecosting nano-enabled drug delivery (NEDD) innovation pathways" under the chairmanship of Dr. Alan Porter, Georgea Institute of Technology, Atlanta, Hilton, San Antonio, March 24-26, 2014.
161. U.A. More, S.D. Joshi, **T.M. Aminabhavi** and V.H. Kulkarni, "Discovery of target based novel pyrrolyl phenoxy derivatives as antimycobacterial agents: an in *silico*approach. Poster presentation, Joint Malaysia-UK Symposium on Natural Product Chemistry and Drug Discovery", School of Pharmacy, International Medical University, 57000 Kuala Lumpur, Malaysia and Royal Society of Chemistry, Thomas Graham House, Science Park, Milton Road, Cambridge, CB4 0WF. 13th December-2014.
162. S.D. Joshi, U.A. More, D. Koli, M.S. Kulkarni, **T.M. Aminabhavi** and V.H. Kulkarni, "In*silico* molecular modelling studies to identify inhibitors of enoyl ACP reductase from *Mycobacterium tuberculosis,* Poster presentation, Joint Malaysia-UK Symposium on Natural Product Chemistry and Drug Discovery", School of Pharmacy, International Medical University, 57000 Kuala Lumpur, Malaysia And Royal Society of Chemistry, Thomas Graham House, Science Park, Milton Road, Cambridge, CB4 0WF. 13th December-2014.
163. U.A. More, S.D. Joshi, V.H. Kulkarni, **T.M. Aminabhavi**, "Pyrrolyl phenoxy derivatives as inhibitors of enoyl ACP reductase: with antitubercular activity against *Mycobacterium tuberculosis*", Oral Presentation, AO-2, 2nd International conference, Emerging trends in chemical and pharmaceutical sciences, CSIR-IICT Campus, Hyderabad, 15th-17th Octomber-2014.
164. S.D. Joshi, D. Kumar, U.A. More, **T.M. Aminabhavi**, "Design and development of pyrrolecarbaldehyde: A better fit pharmacophore for enoyl-ACP reductase", Oral Presentation, BO6, 2nd International conference, Emerging trends in chemical and pharmaceutical sciences, CSIRIICT Campus, Hyderabad, 15th-17th Octomber-2014.
165. U.A. More, S.D. Joshi, D. Koli, **T.M. Aminabhavi**, V.H. Kulkarni, "Pyrrolyl phenoxy acid derivatives as antitubercular agents: Synthesis and Molecular modeling", Oral presentation, OP-16, UGC-sponsored, Two day National Conference on Present scenario of chemical sciences and ITS technological perspectives-2014 (PSCSTP-14), Karnataka Science College, Dharwad, 10th-11th Octomber-2014.
166. S.D. Joshi, D. Kumar, U.A. More, **T.M. Aminabhavi**, "Phenoxy triazoles as a Enoyl Acyl Carrier Protein Reductase Inhibitors for E. Coli: Docking and 3D QSAR analysis", Poster presentation, B9, International Anant-Pharma Research Conference & Poster Presentation Competition, 2014 (on 6th and 7th Jan. 2014), Rajgad Dnyanpeeth's College of Pharmacy, Bhor, Pune, India
167. U.A. More, S.D. Joshi, **T.M. Aminabhavi**, V.H. Kulkarni, "Design, synthesis, molecular docking and 3D-QSAR studies of potent inhibitors of enoyl-acyl carrier protein reductase as potential antimycobacterial agents", Oral presentation, OO-29, 138, XXXII Annual Conference of the Indian Council of Chemists, Department of Studies In Chemistry, Karnatak University, Dharwad, Karnataka, 28th - 30th Nov, 2013.
168. More. U.A, Joshi. S.D, Sorathiya. S, **T.M. Aminabhavi**, "3D-QSAR CoMFA and CoMSIA analyses on *Mycobacterium tuberculosis* inhibitors", P-36, One-day National conference on "Recent advance in computer aided drug design and chromatographic sciences" P. Wadhwani College of Pharmacy, Yavatmal, Maharastra, 9th April, 2013 (Awarded best poster, 1st Prize).
169. J. Ma, A.L. Porter and **T.M. Aminabhavi**, "Identifying Potential Opportunities for Emerging Technologies by Using Literature Linkages", 5th National conference on Future-Oriented Technology Analysis (FTA)- Engage today to Shape Tomorrow, 27-28 November, 2014, Brussels, Belgium.
170. S.D. Joshi, U.A. More, D. Koli, M.S. Kulkarni, **T.M. Aminabhavi**, and V.H. Kulkarni, "In silico molecular modeling studies to identify inhibitors of enoyl ACP reductase from *Mycobacterium tuberculosis*", Presented at Joint Malaysia-UK symposium on Natural Product Chemistry and Drug Discovery, 13th December, 2014.

171. U.A. More, S.D. Joshi, **T.M. Aminabhavi**, and V.H. Kulkarni, "Discovery of target based novel pyrrolyl phenoxy derivatives as antimycobacterial agents: an in silico approach", Presented at Joint Malaysia-UK symposium on Natural Product Chemistry and Drug Discovery, 13th December, 2014.
172. **T.M. Aminabhavi**, Guest speaker at third international conference on "Novel Polymeric Materials in Pharmacy and Engineering", March 12th, 2015, Shree Dhanvatnary Pharmacy College, Surat-Kim, Gujrat, India.
173. **T.M. Aminabhavi**, Plenary speaker, December, 2018, BWR 2018, Hong Kong, Membranes for Biowaste Treatment.
174. **T.M. Aminabhavi**, Plenary speaker, December, 2019, BWR 2019, Busan, Korea, Forward Osmosis for Wastewater Treatment.

Research Projects

Total funds procured between 1988 – 2006 are nearly Seven Millions equivalent to USD including Center of Excellence in Polymer Science funds received from UGC; Recently one research grant secured from King Abdullah University from Saudi (with Professor Tawfik Saleh, but funds not yet released for two million USD

1. UGC Minor Research Grant for Rs. 12,000/- (1988-1990) to study "Theoretical and Experimental Aspects of Liquid Mixtures".
2. UGC Major Research Grant No. 12-55/88 (SR-III) for Rs.2,78,000/- (1989-1992) to study, "The Role of Intermolecular Interactions in Binary Mixtures and Polymer Solutions".
3. CSIR Major Research Grant No. 01(1239)/92/EMR-II for Rs. 5,00,000/- (1992-1996) to study "Sorption and Diffusion of Organic Liquids and Aqueous Electrolyte Solutions into Engineering Polymer Membranes".
4. DST Major Research Grant No. SP/UR/204/92 for Rs.3,00,000/- (1994-1997) to study "Minimal Surfaces and their Applications to Polymer Science", as coinvestigator with Prof. K.S. Amur, Department of Mathematics".
5. AICTE Major Research Grant No. 802-1/RDII/R&D/94(I.D.No. Rec. 117) for Rs. 6,50,000/- (1995-1998) to study "Liquid Transport Processes in Polymeric Materials-Modelling and Development of Pervaporation Technique in Industrial Applications".
6. Department of Forest, Environment and Ecology, Govt of Karnataka, Major Research Grant No. FEE 34 ENG 95 for Rs. 2,70,000/- (1997-1999) to study "Use of Polymer Membranes in the Solution of Environmental Pollution and Drinking Water Problems".
7. AICTE Major Research Grant No. 8017/RDII/BOR/96(I.D.No.138.23) for Rs. 10,00,000/- (1997-1999) to study "Formulation and Evaluation of Controlled Release Dosage Forms Using Polymer Matrices/ Membranes".
8. AICTE Major Research Grant F. No. 8017/RDII/PHA/208/98 for Rs. 5,00,000/- (1998-2000) to study "Theoretical and Experimental Studies on Polymer Solutions and Liquid Mixtures with Reference to Drug Delivery Systems".
9. DST Major Research Grant No. SP/S1/H-26/96(PRU) for Rs. 18,00,000/- (1997-2001) to study "Theoretical and Experimental Investigations of Sorption/Desorption, Diffusion and Permeation of Liquids into Polymer Membranes".
10. CSIR Major Research Grant No. 80(0025)/EMR-II/96 for Rs. 7,00,000/- (1997-2001) to study" Controlled Delivery of Hypertensive Drugs Through Novel Polymeric Membranes/Matrices", in collaboration with Dr. C. Bhaskar, NCL, Pune.
11. GSFC-Science Foundation Major Research Grant for Rs. 25,00,000/- (1997-2000) "Use of Polymer Membranes for the Release of Pharmaceuticals/Agro-products".
12. AICTE Major Research Grant No. 8017/RDII/R&D/TAP/832/98-99 for Rs. 15,00,000/- (1999-2001) to study "Development of Electrodialysis Membranes for Water Purification, Waste Management, Effluent Treatment and Recycling".
13. CSIR Major project Grant No. 80(0042)/02/EMR-II Rs. 8,80,000/- (2003-2006) to study "Development of blend and thin film composite membranes for pervaporation separations".

14. CSIR Emeritus Scientist grant No. 22/2342/NS/11/EMR-II for Rs. 12,00,000/- on "Development of Novel Hyperbranched Polymers/Dendrimers for Coatings and Biomedical Applications", Completed in 2012.
15. AICTE Emeritus Fellow grant No. F.NO.1-51/RIFD/EF(13)/2011-2012 for Rs. 6,00,000/- on "Delivery of Peptides Using Nanoparticulate Polymeric Hydrogels", 2012-2014.

Ph.D. Theses Supervised and Status of the Candidates

1. "Theoretical and Experimental Studies on Liquid Mixtures", L. S. Manjeshwar, 1985 -1988. [She is presently working in the area of drug delivery polymers and is Professor of Chemistry at Karnatak University, Dharwad].
2. "Transport Studies through Polymer Membranes", U.S. Aithal, 1987-1990. [He was the Principal of Sringeri College. Presently, he is retired and settled in Bangalore. He has visited USA three times to work on molecular transport phenomenon with Dr. Aminabhavi]
3. "Studies on Liquids and Liquid Mixtures", S.S. Joshi, 1987-1980. [Immediately after his PhD degree, he was appointed as a lecturer in Chemistry at SDM College of Engineering and Technology, Dharwad].
4. "Liquid Transport through Polymer Membranes", S.B. Harogoppad, 1988-1992. [He was Principal of Karnatak College at Bhalki and retired in 2008 to settle in Hubli].
5. "The Role of Intermolecular Interactions in Liquid Mixtures", M.I. Aralaguppi, 1989-1992. [He was Professor of Chemistry at Karnatak University and retired in 2007 from the Chairmanship of Chemistry Department, Karnatak University, Dharwad].
6. "A Study of Liquid Transport into Some Engineering Polymer Membranes", R.S. Khinnavar, 19901993. [After PhD, he joined chemical industry in Mumbai].
7. "Intermolecular Interactions in Liquid Mixtures", V. A. Aminabhavi, 1988-1993. [She is presently working as a lecturer in Chemistry at Karnatak Scinence College, Dharwad].
8. "Some Physical Properties of Liquids and Liquid Mixtures", S.K. Raikar, 1990-1993. [He was Principal at Shimoga College and retired in 2005 to settle in Harihar as the Principal; he has visited US with Dr. Aminabhavi once in 1999].
9. "Diffusion and Sorption of Liquids into Polymer Membranes", R.S. Munnolli, 1991-1994. [Immediately after his PhD, he joined as lecturer in SDM College of Engineering and Technology, Dharwad].
10. "Some Studies on Organic Liquid Mixtures", Bindu G., 1993-1996. [She is presently the Principal of TIES International School in Bangalore].
11. "Molecular Transport into Polymer Membranes", H.T.S. Phayde, 1992-1996. [He is working in a polymer industry at Ahmadabad in Gujrat].
12. "Molecular Transport of Liquids into Fluoropolymer Membranes", S.F. Harlapur, 1994- 1997. [She is working as lecturer in Veman Engineering College, Bangalore].
13. "Studies on Thermodynamic, Hydrodynamic and Optical Properties of Liquids and Liquid Mixtures", V.B. Patil, 1994-1998. [He is working as lecturer in chemistry in JSS College, Dharwad].
14. Thermodynamic and Hydrodynamic Interactions in Binary Liquid Mixtures", Kamalika Banerjee, 19962000. [She is working as reader in chemistry at IGNOU, New Delhi].
15. "Sorption/Diffusion, Pervaporation Separation and Inverse Gas Chromatographic Studies in Polymers", H.G. Naik, 1995 –2000. [He is presently settled in abroad].
16. "Application of Polymer Membranes for Controlled Release of Pharmaceuticals /Agroproducts", A.R. Kulkarni, 1997-2000. [He is now Professor of Pharmacy, at SET's College of Pharmacy, Dharwad and working on drug delivery polymers. After his PhD, he visited USA under DST program and Taiwan as post doctoral fellow by the recommendation of Dr. Aminabhavi].
17. "Design and Evaluation of Novel Drug Delivery Systems through Polymer Membranes", K.S. Soppimath, 1997-2001. [He is presently settled in USA. Immediately after his PhD, he spent one year at Singapore University. He is continuing his research work on drug delivery].
18. "A Study on Polymer Solutions and Development of New Polymeric Membranes/Matrices for Pervaporation Separation/Controlled Drug Delivery", U.S. Toti, 1998-2003. [After PhD, he spent several years at Korean University and now settled in USA. He is continuing his research activities on polymers].
19. "Development of New Polymeric Membranes in Separation and Drug Delivery", Mahaveer D. Kurkuri, 2000-2003. [He spent a year at Korean University and now settled in Australia as a professor of chemistry; he is working on polymer insulators].
20. "Development of Polymeric Matrices for the Controlled Release of Bioactive Molecules", S.G. Kumbar, 2000-2003. [Immediately after his PhD, he joined as a scientist in NCL, Pune; presently, settled in USA].

21. “Development and Evaluation of Novel Particulate Drug Delivery Systems for Controlled Release and Targeting Applications”, S. A. Agnihotri, 2003-2006. [After his PhD, he worked in a pharmaceutical company at Pune; he is now in USA working for a Private Company in NJ area].
22. “Studies on Synthesis and Applications of Novel Polymers”, A.V. Raghu, 2003-2006. [He went to Korea for higher studies; now working on polymer synthesis and pervaporation at PPISR, Bangalore].
23. “Development of Membranes for Natural Gas Separation”, S. Sridhar, 2003-2007. [He is working as scientist in Membrane Separations Division at Indian Institute of Chemical Technology, Hyderabad].
24. “Molecular Modelling Aspects of Various Polymers”, B. Prathab, 2004-2007. [Immediately after PhD, he spent a year in USA as a post doctoral fellow. Presently working as researcher on steel-polymer interactions at Tata Steel, Jemshedpur].
25. “Composite Polymeric Membranes for Pervaporation Separation”, S.D. Bhat, 2004- 2007. [He joined as scientist at CECRI, CSIR laboratory in Chennai and working on polymers for fuel cell applications].
26. “Synthesis and Characterization of Biomaterials for Drug Delivery”, N.B. Shelke, 2004- 2007. [Immediately after his doctoral degree, he is settled in USA and working on novel polymer synthesis].
27. “Synthesis and Characterization of Polymer Membranes for Pervaporation”, D. Anjali Devi, 2004-2007. [She is presently working as a chemist at CIPET, Hyderabad].
28. “Polymeric Membranes for Liquid-Liquid Separation”. S.G. Adoor, 2004-2007. [Immediately after PhD, he taught at R.V. College of Engineering in Bangalore and recently accepted permanent lecturer position at G.S.S. College in Belgaum].
29. “Development and Evaluation of Polymeric Matrices for Controlled Release Applications”, V. Ramesh Babu, 2004-2007. [He is appointed as a research scientist at Reliance Life Sciences in Mumbai and now settled in abroad].
30. “Membrane Based Separation Processes for Industrial Effluent Treatment” S.K. Nataraj, 2004-2007. [Immediately after PhD as per Dr. Aminabhavi recommendation, he went to work in Korea on polymeric nanofibers, Taiwan University and now in Cambridge University, UK].
31. “Molecular Transport through Polymeric Membranes and their Industrial Utilization”, R.S. Veerapur, 2004-2007. [He did one-year post doc at Singapore and now a lecturer at Engineering College in Bangalore].
32. “Synthesis and Characterization of Hydrogels for Drug Delivery Applications”, A.P. Rokhade, 20042007. [He spent some time in Korea and now settled in Balgalore, working for a private company].
33. “Development of Polymeric Membranes and Their Evaluation for Liquid and Gas Transport Properties”, M.B. Patil, 2004-2007. [He spent two yeasrat Reliance Industries Ltd. In Baroda on membrane related research and now at Qatar University, Doha]
34. Development and Evaluation of Controlled Release Formulations Using Biodegradable Polymers”, R.C. Mundargi, 2004-2007. [Worked with Dr. Aminabhavi at Reliance Life Sciences in Mumbai on drug delivery applications of polymers and now in Singapore].
35. “Synthesis and Development of New Polymeric Membranes for Controlled Release of Bioactive Molecules/Pervaporation”, Mallikarjuna Reddy, S.K. University, Ananthapur, 2005-2007. [He is presently settled in Korea as a research chemist].
36. “Polymeric Matrices for Controlled Release of Drugs and Pervaporation). K.S.V. Krishna Rao, S.K. University, Ananthapur, 2003-2006. [He spent two years in Korea and presently, working as professor in college at Andhra Pradesh].
37. “Synthesis and Characterization of Polymeric Membranes for Pervaporation Separation of Aqueous-Organic Mixtures”, Shivanand Teli, Shivaji University, Kolhapur, 2005-2007. [He spent a year at IIT Kanpur and now settled in abroad].
38. Pervaporation separation, V.T. Magalad, Shivaji University, Kolhapur, 2011. [Now he is a Professor at Tontadarya College in Gadag]
39. Drug Delivery Polymers, Anita Sullad, worked with Dr. Manjeshwar, L.S. and degree was awarded in 2012. [Working as lecturer in KLE College of Engineering, Belgaum].