

Curriculum Vitae

Name	AMALIN KAVITHA A
Sex	Female
Nationality	Indian
Marital Status	Married
Date of Birth	February 12
Address for Communication	: Pullani vilai house, Kanjiracode P. O., Kunnamparai, Marthandam, Tamil Nadu e-mail: amalinkavitha@yahoo.co.in

Educational Qualification:

- M.Phil (Chemistry): 2004: 1st Class (University First Rank): Manonmanium Sundaranar University, Thirunelveli, India.
- M.Sc (Chemistry): 2002: 1st Class: Manonmanium Sundaranar University, Thirunelveli, India.
- B.SC (Chemistry): 2000: 1st Class: Manonmanium Sundaranar University, Thirunelveli, India.

Experience in Research:

- **M.Phil project work entitled** “Synthesis and Characterizations of Radiation Curable Telechelic Urethane Methacrylic Macro Monomers” Regional Research Laboratory, Thiruvananthapuram, India. **Period: 2004.**
- **Junior Research Fellow (JRF):** “Hydrophilic Lubricious Coating on Natural Rubber latex products” Sree Chitra Thirunal Institute for Medical Science and Technology, Thiruvananthapuram, India. **Period:** March 2005 – May 2005.
- **Senior Research Fellow (SRF):** “Transition Metal Catalyzed Controlled Radical Polymerization of the Specialty Monomers” Rubber Technology Centre, Indian Institute of Technology, Kharagpur. (March 2005 – March 2009).

Awards/Fellowships:

- 2004: University First Rank (M.Phil, Chemistry) **Gold Medal**, Manonmanium Sundaranar University, India.
- 2005-till date: Awarded Senior Research Fellowship by Indian Institute of Technology, Kharagpur, India.

List of Publications from the Ph.D. work

Papers Published in Journals

1. [Amalin Kavitha A.](#); Anusuya Choudhury, Nikhil K. Singha, Controlled Radical Polymerization of Furfuryl Methacrylate, *Macromolecular Symposia*, 2006, 240(1), 232–237 (4 citations).
2. [Amalin Kavitha A.](#); Nikhil K. Singha, A Tailor-Made Polymethacrylate Bearing a Reactive Diene in Reversible Diels–Alder Reaction, *Journal of Polymer Science, Part A: Polymer Chemistry*, 2007, 45(19), 4441–4449 (10 citations).
3. [Amalin Kavitha A.](#); Nikhil K. Singha, Atom Transfer Radical Copolymerization of Furfuryl Methacrylate (FMA) and Methyl Methacrylate (MMA): A Thermally-Amendable Copolymer, *Macromolecular Chemistry and Physics*, 2007, 208(23), 2569–2577 (5 citations).
4. [Amalin Kavitha A.](#); Nikhil K. Singha, High Temperature Resistant Tailor-made Poly(meth)acrylates bearing Adamantyl group via Atom Transfer Radical Polymerization (ATRP), *Journal of Polymer Science, Part A: Polymer Chemistry*, 2008, 46(21), 7101–7113 (4 citations).
5. [Amalin Kavitha A.](#); Nikhil K. Singha, "Click Chemistry" in Tailor-Made Polymethacrylates Bearing Reactive Furfuryl Functionality: A New Class of Self-Healing Polymeric Material; *ACS Applied Materials & Interfaces*, 2009, 1(7), 1427–1436.
6. [Amalin Kavitha A.](#); Nikhil K. Singha, Tailor-made Poly(methyl acrylate) bearing Amantadine functionality (amino adamantyl) via Atom Transfer Radical Polymerization (ATRP); A precursor of Supramolecular crosslinked polymer, *Macromolecules*, 2009, 42(15), 5499–5508.
7. [Amalin Kavitha A.](#); Nikhil K. Singha, Atom Transfer Radical Polymerization (ATRP) of Methyl Methacrylate using a Functional Initiator bearing an Amino-Adamantane; *Macromolecular Chemistry and Physics* 2009, 210(18), 1536–1543.
8. [Amalin Kavitha A.](#), Nikhil K. Singha, Smart ‘All Acrylate’ ABA Triblock Copolymer Bearing Reactive Functionality via Atom Transfer Radical Polymerization (ATRP): Demonstration of a ‘Click Reaction’ in Thermoreversible Property; *Macromolecules* 2010, 43(7), 3193–3205.

Papers Presented in Conferences

1. [Amalin Kavitha A.](#), Anusuya Choudhury and Nikhil K. Singha, Atom Transfer Radical Polymerization of a Methacrylate bearing a Furfuryl Group”, Presented in Polymer 2006, National Conference on Frontiers in Polymer Science & Technology held on 10–12th February 2006, in Kolkata, India.
2. [Amalin Kavitha A.](#), Nikhil K. Singha, A Thermo-reversible Polymethacrylate by Atom Transfer Radical Polymerization (ATRP); Presented in MACRO-2006, Polymers for Advanced Technologies, 9th National Conference of the society for polymer science, India held on December 17–20, 2006, in NCL Pune.
3. [Amalin Kavitha A.](#), Nikhil K. Singha, Highly Thermally Stable Tailor-made Poly(meth)acrylates bearing Adamantyl group via a Controlled Radical

Polymerization; Presented in International Conference in Polymer Science & Technology (Poly-2008) held in January 28–31, 2008 in IIT, Delhi, India.

4. [Amalin Kavitha A](#), Nikhil K. Singha, Effect of Adamantyl Derivative on Atom Transfer Radical Polymerization (ATRP) of Poly(meth)acrylates, 10th National conference, MACRO 2009, Recent Advances in Polymeric Materials, IIT Madras, March 9–11, 2009.

List of Publications for other Project Work

1. Copper Mediated Controlled Radical Ring Opening Polymerization (RROP) of a Vinyl Cycloalkane; Nikhil Kumar Singha, [Amalin Kavitha](#), Prodip Sarker and Stephen Rimmer; **Chemical Communication**, 2008, 3049 – 3051 (2 citations).
2. Synthesis and curing studies of PPG based telechelic urethane methacrylic macromonomers; S.K. Asha, M. Thirumal, [A. Kavitha](#), C.K.S. Pillai **European Polymer Journal**, 2005, 41, 23 – 33 (5 citations).
3. Synthesis and Characterization of Radiation Curable Telechelic Urethane Methacrylic Macromonomers; S.K. Asha, [A. Kavitha](#), M. Thirumal, C.K.S. Pillai, Presented in **Macro 2004**, International Conference on Polymers held on 14-15th December 2004, in Thiruvananthapuram, India.

