

S Kanagasabapathy

R&D Manager

Unionville, CT - Email me on Indeed: indeed.com/r/S-Kanagasabapathy/dea0865b2b6f77b8

- 15+ years industrial R&D exp. on functional urethane acrylate, epoxy acrylate monomers, oligomers and polymers for ink, adhesives, coating and automotive industries.
- Ability to communicate orally and in writing, including technical proposals / reports, patents and scientific articles.
- Strong leadership in new technology, invention, product & process developments.
- Proven ability to function in high-pressure, high demanding environment.
- Excellent interpersonal, coalition building, team work, problem solving and organizational skills.

WORK EXPERIENCE

Group Leader

Dymax Corporation - Torrington, CT - January 2014 to Present

- Lead multiple projects from R&D to customers with a team of engineers and chemists
- Focused on developing one part and two parts radiation curable polyurethanes and derivatives for electronics, medical, automotive, printing, cosmetics industries.
- Responsible for defining technology strategy and roadmaps

R&D Manager

Chemical Sciences - April 2010 to September 2013

Project lead for the development of monomers, oligomers, polymers, epoxy resins and amine curing agents, fluoro chemicals for specialty and commodity industries.

- Responsible for setting project goals, milestones and delivery time line for aggressive projects.
- Ensuring the basic competencies (team motivation, skills, capabilities and safety aspects) of the R&D team and make sure that it improves continuously.
- Continuously developing new ideas for the improvement of formulation properties by functionalization of polymers to meet customers demand.
- 6 patents filed.

Technology Leader

Ashland Inc - Lexington, KY - September 2005 to March 2010

Design of surfactants, polymers, dispersants and formulations development for specialty automobile coatings.

- Design of material with right functionalities to meet the required properties of specific applications.
- Coordinate with scientist and process engineers within R&D and manufacturing to transfer the technology quickly from the lab to commercial scale.
- Interact closely with sale and marketing team to ensure that technical requirements are met for the commercialization.
- Successfully launched three products to consumer market where I have made significant contributions to formulations.
- 9 US patents filed.

Sr. Scientist

Rohm & Haas Company - Marlboro, MA - 2001 to 2005

Responsible for synthesis of narrow MW water soluble and solvent soluble acrylic polymers and their use in coating formulations.

- Expert in using the analytical tools such GPC, GC, GC-MS, DSC, TGA, NMR and interpretation of analytical data.
- Worked on designing new functional monomers and polymers to meet customer requirements.
- Supervised material synthesis team technicians to execute the work.
- Project coordinator for controlled free radical polymerization techniques with RPI, Troy NY and Warwick Effect Polymer Ltd., UK.
- 11 US patents filed and 4 articles published in international journals.

Research Associate

Post Doc - Troy, NY - 1999 to 2001

Initiated the work on controlled free radical polymerization, design of various organic functional monomers, controlling agents for RAFT technique.

- Developed novel methods for synthesis of dithio esters and trithio carbonates as RAFT agent.
- Emulsion and water/organic solvent soluble high MW narrow PDI balack copolymers were made for dispersant and coating formulations.
- 2 US patents granted and 4 journal articles published.

Research Advisor

Institute of Technical Chemistry and Petrochemistry RWTH - 1996 to 1996

Prof. B. Fell): PhD awarded by Univ. of Pune (1996)

- Design and synthesis of water soluble catalysts and their application towards carbonylation reactions for the synthesis of organic carbamates and urethanes
- Synthesis of linear aldehydes and acids using carbonylation of olefins.
- Developed novel methods for separation of transition metal complexes for industrially important hydroformylation reactions (US 5756854; DE 19 532 393; EP 761 635 B 1).

EDUCATION

Ph.D.

Germany / Univ. Pune India - Pune, Maharashtra
1996

M.S

(Chemistry) Annamalai University
1988

B.S.

(Chemistry) M K University
1983