


<p>Name and Designation: Mrs.Radhika S.Kusurkar, Professor in Organic Chemistry.</p>	
<p>Academic Background: Ph.D. (<i>Department of Chemistry, University of Pune Pune India</i>) M.Sc. (<i>University of Pune, 1973</i>) B.Sc. (<i>University of Pune, 1971</i>)</p>	<p>Professional Experience: <i>Please, give information about your Post-doctoral. Research Associate, visiting Scientist/professor: and/or earlier employment information</i></p>
<p>Research Interests: Synthetic organic chemistry</p> <ul style="list-style-type: none"> • Synthesis of Biologically active Compounds • Synthesis of Heterocyclic compounds • Synthesis of Indole alkaloids • Diels-Alder reactions in synthesis. • Synthesis of carboline alkaloids • 	
<p>Research Schemes, collaborative ventures and consultancy) Completed and ongoing Schemes from Funding agencies,</p> <ul style="list-style-type: none"> • CSIR, • DST, • UGC, • BARC • DRDO • BCUD etc. 	
<p>Research Publications (last 10 years)</p> <ol style="list-style-type: none"> 1. 1,3-dipolar Cycloaddition reaction assisted by microwave radiation and γ-radiation Kusurkar, R.S.; Kannadkar, U.D. <i>Synthetic Communications</i>, 31, 2001, 2235. 2. Reactions of Vilsmeier Haack reagent with aromatic and heterocyclic aldoximes R. S. Kusurkar, S. K. Goswami and S.M. Vyas <i>Indian Journal of Chemistry</i>, 42B, 2003, 3148-3151, 3. Efficient one-pot synthesis of anti HIV and antitumor compounds: Harman and substituted harmans R. S. Kusurkar, S.K. Goswami and S.M. Vyas <i>Tetrahedron Letters</i>, 44,4761-4763, 2003 4. Efficient one-pot synthesis of anti HIV and antitumor -carbolines R. S. Kusurkar and S. K. Goswami 	

- Tetrahedron*, **60**, 2004 5315- 5318.
5. Synthesis, Characterization and Performance evaluation of Triaryl Cyanurates.
Sandhya Vyas, V. N. Krishnamurthy, R. S. Kusurkar.
Theory and Practice of energetic materials Vol. IV, p 48, China Science and Technology Press.
 6. Microwave mediated fast synthesis of diaminoglyoxime and 3,4-diaminofurazan: key synthons for the synthesis of high energy density materials.
Kusurkar, Radhika S.; Goswami, Shailesh K.; Talawar, Mahadev B.; Gore, Girish M.; Asthana, Shri N.
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 7. Synthesis and Characterisation of Diaryl Furoxans
Sandhya Vyas, M. B. Talawar, R. S. Kusurkar, S. N. Asthana and V. N. Krishnamurthy.
Defence Science Journal, **56**, 2006, 551-557,
 8. Thermal and Microwave-Assisted Conjugate Additions of Indole on Electron Deficient Nitro-olefins.
Radhika S. Kusurkar, Nabil A. H. Alkobati, Anita S. Gokule, Purnima M. Chaudhari, and Prasad B. Waghchaure
Synthetic Communications, **36**, 2006, 1075–1081.
 9. Conjugate addition of Pyrroles to α , β -unsaturated ketones using copper bromide as a catalyst.
Radhika.S.Kusurkar,* Sandip.K.Nayak and Neelam L. Chavan
Tetrahedron Lett. **47**, 2006, 7323-7326,
 10. An efficient synthesis of bibenzylic oxygen heterocycles.
Virendra B. Kumbhar, Augustine R. Joseph, Arun D. Natu, Radhika S.Kusurkar and Madhusudan V. Paradkar
Journal of Chemical Research, 2007, 590-593.
 11. Use of the Pictet-Spengler reaction for the synthesis of new 1,4-disubstituted-1,2,3,4-tetrahydro- β -carboline and 1, 4-disubstituted- β -carboline: Formation of γ -carboline.
Radhika S. Kusurkar, Nabil A. H. Alkobati, Anita S. Gokule and Vedavati G. Puranik.
Tetrahedron, **64**, 2008, 1654-1662.
 12. A Combination of $AlCl_3$, Ionic Liquid and MW: An Efficient Method for Dehydration and 1,3-Dipolar Cycloaddition; An Unusual Observation in The Presence of Acrylonitrile.

Radhika S. Kusurkar*, Nilesh H. Naik and Prajakta N. Naik

Synthetic Communications, **38**, 2008, 1952-1957.

13. Microwave-assisted conjugate addition of pyrrole on electron-deficient nitro-olefins
Nabil A. H. Alkobati and Radhika S. Kusurkar
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14. Indium(iii) chloride: an efficient catalyst for the synthesis of amidoalkyl naphthols
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Neelam L. Chavan, Sandip K. Nayak, Radhika S. Kusurkar
Tetrahedron **66**, (2010) 1827–1831
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