

Curriculum Vitae

Dr. Lokesh A. Shastri

Associate Professor of Organic Chemistry
Dept. of Chemistry, Karnatak University, Pavate
Nagar, Dharwad-580003, KARNATAKA

E-mail: drlashastry@kud.ac.in
chemilok@gmail.com

Phone No.: 0836-2215286

Cell No. : 8762268779



Academic Profiles:

- **Ph. D.** (awarded on 17th October 2006), Karnatak University, Dharwad, Karnataka State, India.
Title: Synthetic Studies in Oxygen and Nitrogen Heterocycles.
- **M. Phil.** (Organic Chemistry First Class -67.2%): 2002 – 2003
- **M. Sc.** (Organic Chemistry, First Class-62.77%): 2001
- **Industrial Experience:** Two and half year in Syngene International- A Biocon Company Bangalore as Associate Scientific Manager (2006 AUG. 2008 April).
- **Postdoctoral Experience: One Year** at National Sun Yat-Sen University, Kaohsiung Taiwan.
- **Teaching Experience:** Since 19th May 2009 to till date, Dept. of chemistry Karnatak University, Dharwad,
- **Research Supervision: 07** students awarded and **08** Students are working for their Ph.D.
- **Awards:** i) Best research Paper 2017-18 by KU Dharwad ii) Outstanding Contribution in Reviewing Sept. 2016 and Jan. 2017 (*Eur. J. Med. Chem.*)
- **Project:** Three major projects : 02 Completed and one (01) under progress; one (01) minor project completed.
- **Publications: 62**
- **Book Chapter: 01**
- **index: 15**
- **Student Feedback :** 3.7 rating out of 4

Responsibilities: i) Coordinator, PG. M.Sc. in Analytical Chemistry (since 26-3-2019 to till date)
ii) Co-ordinator PG. Science evaluation (May/June-2019)
iii) Coordinator, PGP. M.Sc. I & III-Semester-Dec.2018 (Chemistry)
iv) Coordinator, Ph.D. Course work (2017-18)

- v) Warden –Malaprabha Hostel KU Campus (since Oct. 2020 to till date)
- vi) Coordinator, Department NAAC Cell (since Dec.2020)
- vii) BOE Chairman (Organic and Analytical Chemistry)
- viii) Placement Cell Member (Dept. of Chemistry KUD)

Research

About the Doctoral Work:

My doctoral work involved synthesis of novel coumarin based heterocycles via 5+1 and 4+1 approaches. The synthesized heterocycles were characterized and evaluated for their biologically important.

Work carried out at Innovassynth Technologies India LTD as Research Associate.

- I have successfully stabilized the process for API molecule Alfentanil.
- I have successfully synthesized 1-carbomethoxy indine-2-one in larger scale (up to 1 kg).

Work carried out at Syngene International–A Biocon Company. (projects handled–BMS, Novartis & Merck)

- I have synthesized number of pyrimidines and purines molecule having pyridine and other heterocyclic moiety via Suzuki coupling (up to 10 steps)
- I have synthesized pyrimidine derivatives of guanidine.

Instruments handled:

- I have handled IR, NMR, UV-Vis. and
- I have closely worked with HPLC, LCMS, GC-MS, TGA and DSC

Chromatographic techniques

- Highly skilled on TLC, paper, column chromatography and separation by column up to 10mg - 50gm scale. Also skilled in the use of automated MPLC and HPLC.

Spectral analysis

- Very strong in spectral interpretation of organic compounds and natural products by UV, IR, NMR and mass spectral data.

Microwave Synthesis

- I have synthesized many compounds using microwave

Isotopic Labeling

- I have experience in isotopic labeling study which is useful in structural identification

Total synthesis

- Hands on experience in total synthesis of beta-carboline related molecules

Conferences/ Seminars attended:

- Attended AZREFI Lectures held at Astra Zeneca Research Foundation India, Bangalore on 18th Aug 2003 and 15th Oct 2004.
- Attended One day seminar on “Nuclear Energy: 50 years in the service of Nation” Organized by Nuclear Power Corporation of India Ltd, Kaiga and Karnatak University, Dharwad, on 6th Apr 2004 at Karnatak College Campus Dharwad, India
- National Symposium on Radiation and Photochemistry (NSRP-2005)
Dept of Physics Karnatak University, Dharwad
- 32nd annual conference of ICC Nov. 2013 at Karnatak University, Dharwad
- Three day Lecture series, Sponsored by VGST, Govt. of Karnataka on Oct. 2013 at Karnatak University, Dharwad.
- Paper presented on 4th international ICC conference at Tashkent –Uzbekistan
- International conference on Direct Digital Manufacturing and Polymers at Karnatak University, Dharwad (28th to 31st Oct. 2015)- As a organizing committee member
- International conference on Direct Digital Manufacturing and Polymers at Karnatak University, Dharwad (22th to 25th Feb. 2019)- As a Treasurer.
- **Book Chapter: 01** (Heterogeneous Catalysts for the Synthesis of Bioactive Coumarins: **Taylor and Francis- 2014**)

Publications list

1. Rational design, synthesis and SAR study of novel warfarin analogues of 4-hydroxy coumarin-beta-aryl propanoic acid derivatives as potent anti-inflammatory agents. Varsha Pawar a , Lokesh A. Shastri a , *, Parashuram Gudimania , Shrinivas Joshib , Vijay M. Kumbar c , Vinay Sunagar. *Journal of Molecular Structure* 1254 (2022) 132300
2. Design and synthesis of new series of dipyrromethane-coumarin and porphyrin-coumarin derivatives: Excellent anticancer agents, Megharaja Holiyachi, Samundeeswari L. Shastri, Bahubali M. Chougala, Nirmala S. Naik, Varsha Pawar, **Lokesh A. Shastri*** Shrinivas D. Joshi, Vinay A. Sunagar, *J. Mol. Struct.* 2021,1237,130424.
3. Synthesis, *in vitro* biological evaluation and molecular docking study of coumarin-1,4-dihydropyridine derivatives as potent anti-inflammatory agents, Jyoti M. Madar, **Lokesh A. Shastri***, Samundeeswari L. Shastri, Megharaja Holiyachi, Nirmala S. Naik Parashuram Gudimani, Varsha Pawaer, Arun K. Shettar, Shrinivas D. Joshi, Vinay A. Sungar. *Indian J. Chem.* 2021, 60B, 418-432.
4. Solvent Free Synthesis, Characterization and *in vitro* Biological Activity Study of Xanthenediones and Acridinediones, Jyoti M. Madar, Samundeeswari S, Megharaja Holiyachi, Nirmala S. Naik, Varsha Pawar, Parashuram Gudimani, **Lokesh A. Shastri***, Vijay M. Kumbar, *Rus. J. Bioorg. Chem.* 2021,47,535-542.
5. A Scientometric Analysis of Global literature on Hydroxychloroquine based on SCOPUS. Gururaj S. Hadagali, Iranna M. Shettar, Lokesh Shashtri, B Ramesh Babu, 2021,. *Library Philosophy and Practice* (e-journal). 5145. <https://digitalcommons.unl.edu/libphilprac/5145>

6. Synthesis, thermal and optical characterization of 4,4'-[(1,4-phenylene)-4,4'-[(1,4-phenylene)-bis-2,6-dicoumarinyl] pyridine derivatives, Nirmala S. Naik, Samundeeswari S., **Lokesh A. Shastri***, Vinay Sunagar, *Chemical Data Collections*, 2021, 31,100616.
7. Synthesis of novel aryl and coumarin substituted pyrazolo[1,5-a]pyrimidine derivatives as potent anti-inflammatory and anticancer agents, Nirmala S. Naik, **Lokesh A. Shastri***, Bahubali M. Chougala, Samundeeswari S., Megharaja Holiyachi, Shrinivas D. Joshi, Vinay Sunagar, *Chemical Data Collections*,2020, 30, 100550.
8. Bio-inspired design and synthesis of fluorescent molecules: Coumarin- β -carboline hybrids as models, Samundeeswari S, **LokeshA. Shastri***, ManoharV. Kulkarni, *Chemical Data Collection*,2021,31, 100613
9. Synthesis and molecular docking studies of coumarin-imidazole conjugates as potential antimicrobial agents, Megharaja Holiyachi, Samundeeswari S, Bahubali M. Chougala, Nirmala S. Naik, Jyoti M. Madar, Farzanabi Shaikh, **Lokesh A. Shastri*** Shrinivas D. Joshi, Sheshagiri R. Dixit, Vinay A.Sunagar, Shivasarana C. T. *Indian J. Chem.B.* 2020, 59B,110-125.
10. 1,6-Diamino-dihydropyridine and Triazolo[1,5-a]pyridine Analogues as a Highly Promising Scaffold for the Development of Bacterial Infection Inhibitors, Nirmala S. Naik, Jyoti M. Madar, S. Samundeeswari, Bahubali M. Chougala, Varsha Pawar, Parashuram Gudimani, **Lokesh A. Shastri***, Suneel Dodamani, Sunil Jalalpure, Vinay Sunagar, *Data Collections*,2020,28, 100487
11. Synthesis, Characterization, Photophysical and DFT Studies of Bicoumarin and 3-(3-benzofuranyl) coumarin Derivatives. Umesh Hunagund, Farzanabi Shaikh, **Lokesh A. Shastri***, Gurubasavaraj H. Malimath, Lohit Naikh , Vinay S Sunagar, *Chemical Data Collections*,2020,30,100537
12. Effect of amino anilines on the fluorescence of coumarin derivative, J. M. Nirupama, N. I. Khanapurmath, L.S. Chougala, **L. A. Shastri**, R. F. Bhajantri, M.V.Kulkarni, J.S. Kadadevarmath, *J. Lumines.* 2019, 208, 164-173
13. Synthesis and characterization of coumarin-isoxazole conjugate as potent antibacterial and anti-inflammatory agents. Alpana Saxena, Samundeeswari S. Ravindra Chougale, **Lokesh Shastri***, Shrinivas D. Joshi, Vinay Sunagar *IOSR J. App. Chem. (JAC)*. 2018, 11, 31-39
14. Synthesis of polyfunctionalized fused pyrazolo-pyridines: Characterization, anticancer activity, protein binding and molecular docking studies. Nirmala S. Naik, **Lokesh A. Shastri,*** Samundeeswari L. Shastri, Bahubali M. Chougala, Farzanabi Shaikh, Jyoti M. Madar, Rashmi C. Kulkarni, Suneel Dodamani, Sunil Jalalpure, Shrinivas D. Joshi, Vinay Sunagar **ChemistrySelect**, 2018, 3, 1-14 ; DOI: 10.1002/slct.201802927
15. Green Synthesis of coumarin-pyrazolone hybrids: *in vitro* anticancer and anti-inflammatory activities and their computational study on COX-2 enzyme. Rashmi C. Kulkarni, Jyoti M. Madar, Samundeeswari L. Shastri, Nirmala S. Naik, Farzanabi Shaikh, **Lokesh A. Shastri***, Shrinivas D. Joshi, Sheshagiri R. Dixit, Vinay A. Sunagar. *Chemical Data Collections* 2018 17, 497-506

16. Synthesis, molecular docking and biological evaluation of coumarin and phenyl-1,2,4-triazolidine-3-thiones as potential antitubercular and antibacterial agents. Farzanabi Shaikh , Samundeeswari S, Rashmi Kulkarni , Nirmala S. Naik , Jyoti M. Madar , Shrinivas D. Joshi , Vinay Sunagar , **Lokesh Shastri***, *ChemistrySelect*, 2018, 4, 105-115
17. Design, Synthesis and exploiting pharmacological activities of 2,3-dihydrofuranocoumarins as multi-therapeutic agents. Jyoti M. Madar, **Lokesh A. Shastri***, Samundeeswari L. Shastri, Megharaj Holiyachi, Nirmala S. Naik, Farzanabi Shaikh, Vinay A. Sungar, Shrinivas D. Joshi *ChemistrySelect*, 2018, 3, 10738-10749
18. Design and synthesis of structurally identical coumarinotriazoles as cytotoxic and antimicrobial agents. Jyoti M. Madar , **Lokesh A. Shastri*** , Samundeeswari L. Shastri , Ramu Guda , Megharaja Holiyachi , Nirmala S. Naik , Suneel Dodamani , Sunil Jalapure , Vinay A. Sungar. *Chemical Data Collections* (2018), 17018, 219-235 doi: <https://doi.org/10.1016/j.cdc.2018.09.005>
19. Synthesis and characterization of coumarin-4-thiazolidinone scaffolds as new class of anti-tuberculosis and antibacterial agents, Jyoti M. Madar, **Lokesh A. Shastri***, Samundeeswari L. Shastri, Megharaj Holiyachi, Nirmala S. Naik, Farzanabi Shaikh, Vinay A. Sungar, Shrinivas D. Joshi, *J. Appl. Chem. (IOSR)* 2018, 11, 77-101.
20. Synthesis and characterization of chlorophenylthiazolocoumarinyl hydrazides as promising antimicrobial and anti-inflammatory agents. Farzanabi Shaikh , Samundeeswari S, Rashmi Kulkarni , Nirmala S. Naik , Jyoti M. Madar , Shrinivas D. Joshi , Vinay Sunagar , **Lokesh Shastri*** *J. Appl. Chem. (IOSR)*, 2018, 11, 9-39.
21. Synthesis of 2,3-dihydroflavone-coumarin as a class of potent antifungal and anti-inflammatory agents, Farzanabi Shaikh, Samundeeswari L. Shastri, Megharaja Jyoti M. Madar, Holiyachi, Nirmala Naik, Rashmi Kulkarni, **Lokesh A. Shastri***, Sheshagiri R. Dixit, Shrinivas D. Joshi, Vinay Sungar. *ChemistrySelect*, 2018, 3, 3451-3458.
22. Fluorescence Investigations on Interactions between 7,8-benzo-4-azidomethyl Coumarin and Ortho- and Para-phenylenediamines in Binary Solvent Mixtures of THF and Water, J. M. Nirupama, L. S. Chougala, N. I. Khanapurmath, A. Ashish **L. A. Shastri**. M. V. Kulkarni, J. S. Kadadevarmath, *J. Fluores.* doi/10.1007/s10895-017-2198-8.
23. Green, unexpected synthesis of bis-coumarin derivatives as potent anti-bacterial and anti-inflammatory agents. Bahubali M. Chougala, Samundeeswari S., Megharaja Holiyachi, Nirmala S. Naik, **Lokesh A. Shastri***, Suneel Dodamani, Sunil Jalalpure, Sheshagiri R. Dixit, Shrinivas D. Joshi, Vinay A. Sunagar. *Eur. J. Med. Chem.* 2018, 143, 1744-1756.
24. Design, synthesis, characterization and biological evaluation of pyrido[1,2-a]pyrimidinone coumarins as promising Anti-inflammatory agents. Jyoti M. Madar, **Lokesh A. Shastri***, Samundeeswari L. Shastri, Megharaja Holiyachi, Nirmala Naik, Rashmi Kulkarni, Farzanabi Shaikh, Vinay Sungar. *Synthetic Comm.* 2018, 5, 48, 375-388.
25. Design, Synthesis of coumarin-imidazole hybrid and phenyl-imidazoloacrylates as potent antimicrobial and anti-inflammatory agents. Megharaja Holiyachi, Samundeeswari S., Bahubali M. Chougala, Nirmala S. Naik, Jyoti. Madar, **Lokesh A. Shastri***, Shrinivas D. Joshi, Sheshagiri R.

- Dixit, Suneel Dodamani, Sunil Jalalpure, Vinay A. Sunagar. *Monatsh fer Chem.* (DOI 10.1007/s00706-017-2079-5)
26. Design, Synthesis, Characterization, Photophysical and pH Chemosensor Studies of Novel 2,4,6-Trisubstituted Pyridines, Nirmala S. Naik, Navya S. Bhat, Arpana G. Hegde, Swati S. Bhat, Akshay Kirasur, Anilkumar Patil, **Lokesh A. Shastri***, Vinay Sunagar, *Synthetic Comm.* **2018**, 48. 511-532.
 27. A green approach for the synthesis of 4-coumarin-4*H*-pyrans from 4-formyl coumarins and their antibacterial study, Alpana Saxena, **Lokesh Shastri***, Vinay Sunagar, *Synthetic Comm.* **2017**, 47(17) 1570–1576
 28. Unusual transformation of benzilmonooxime coumarin ethers into carboxamides, Samundeeswari. S, **Lokesh A. Shastri**, Bahubali M. Chougala, Megharaja Holiyachi, Manohar V. Kulkarni, *Tet. Lett.* **2017**, 58, 1996-1998.
 29. Microwave synthesis of coumarinyl substituted pyridine derivatives as potent anticancer agents and molecular docking studies, Bahubali M. Chougala, Samundeeswari S, Megharaja Holiyachi, Nirmala S. Naik, **Lokesh A. Shastri***, Suneel Dodamani, Sunil Jalalpure, Sheshagiri R Dixit, Shrinivas D. Joshi, Vinay A Sunagar, *ChemistrySelect*, **2017**, 2, 5234 – 5242.
 30. Synthesis of naked-eye detectable fluorescent 2*H*-chromen-2-one 2, 6-dicyanoanilines: Effect of substituents and pH on its luminous behavior, Rashmi C. Kulkarni, Samundeeswari S, Nirmala S. Naik, Farzanabi Shaikh, Jyoti M. Madar, **Lokesh A. Shastri***, Vinay A. Sunagar, *J. Fluoresc.* **2017**, 27, 1613–1619.
 31. Mild, Efficient and Catalyst-Free Hydroxylation of Alkyl Halides in Water: Significant Enhancement of Water Nucleophilicity in Dipolar Solvents, Bahubali M. Chougala, Samundeeswari S, Megharaja Holiyachi, **Lokesh A. Shastri***, *ChemistrySelect*, **2017**, 2, 1290 – 1296.
 32. An efficient and catalyst free methylthiolation of 4-(bromomethyl)-2*H*-chromen- 2-ones with DMSO, Bahubali M. Chougala, Samundeeswari S, Megharaja Holiyachi, Nirmala S. Naik, **Lokesh A. Shastri***, Vinay A Sunagar, *Phosphorus Sulfur and Silicon relat elem.* **2017**, 192, 874-879.
 33. Design and synthesis of novel phenyl -1, 4-beta-carboline-hybrid molecules as potential anticancer agents, Samundeeswari S., Bahubali Chougala, Megharaj Holiyachi, **Lokesh Shastri***, Manohar Kulkarni, Suneel Dodamani, Sunil Jalalpure, Shrinivas Joshi, Sheshagiri Dixit, Vinay Sunagar, Ravindra Hunnur, *Eur. J. Med. Chem.* **2017**, 128, 123-139.
 34. 3,4-dihydropyrimidinone-coumarin analogues as a new class of selective agent against *S. aureus*: Synthesis, biological evaluation and molecular modeling study, Nirmala S. Naik , **Lokesh A. Shastri***, Shrinivas D. Joshi, Sheshagiri R. Dixit, Bahubali M. Chougala, Samundeeswari S., Megharaj Holyachi, Farzanabi Shaikh, Jyoti Madar, Rashmi Kulkarni, Vinay Sunagar *Bioorg. Med. Chem.* **2017**, 25, 1413-1422.
 35. Synthesis, Characterization and Photophysical Studies of Tricoumarin-pyridines, Nirmala S Naik, **Lokesh A Shastri***, Chinna Bathula, Bahubali Chougala, Samundeeswari Shastri, Megharaj Holiyachi, Vinay Sunagar, *J. Fluoresc.* **2017** 27:419–425.

36. One-pot, green synthetic route for construction of coumarin C-4 bridged 2,6-dicyanoanilines and their photophysical study, Rashmi C. Kulkarni, S. Samundeeswari, Bahubali M. Chougala, Megharaja Holiyachi, Manohar V. Kulkarni, and **Lokesh A. Shastri***, *Synthetic Comm.* **2016**, 46, 2063–2072.
37. Synthesis, Crystal and Molecular Structure Studies and Hirshfeld Surface Analysis of a 6-amino-1,4-dihydro-3-methyl-4-(5,7-dimethyl-2-oxo-2Hchromen-4-yl)pyrano[2,3-c]pyrazole-5-carbonitrile, Bahubali M. Chougala , Karthik Kumara , Samundeeswari S. , Megharaja Holiyachi , Neratur Krishnappagowda Lokanath and **Lokesh A. Shastri***, *Der Pharma Chemica*, **2016**, 8(10):205-215
38. Synthesis, characterization and molecular docking studies of substituted 4-coumarinylpyrano[2,3-c]pyrazole derivatives as potent antibacterial and anti-inflammatory agents, Bahubali M. Chougala, Samundeeswari L. Shastri, Megharaja Holiyachi, **Lokesh A. Shastri***, Suneel Dodamani , Sunil Jalalpure, Sheshagiri R. Dixit , Shrinivas D. Joshi , Vinay A. Sunagar, *Eur. J. Med. Chem.* **2017**, 125, 101-116.
39. Design, Synthesis and Structure-Activity Relationship Study of Coumarin Benzimidazole Hybrid as Potent Antibacterial and Anticancer Agents, Megharaja Holiyachi, Samundeeswari L. Shastri, Bahubali M. Chougala and **Lokesh A. Shastri**, *ChemistrySelect* **2016**, 1, 4638 – 4644
40. Highly stereoselective direct aldol reaction of 4-formylcoumarins with acetone catalyzed by L-proline in water–acetone mixtures, Megharaja Holiyachi, Samundeeswari L. Shastri, Bahubali M. Chougala and **Lokesh A. Shastri***, *Synthetic Comm.* **2016**, 46, 16, 1386–1395
41. Synthesis of Coumarin Analogous of Decursivine Derivatives, Samundeeswari L. Shastri, Bahubali, M. Chougala, Megharaja Holiyachi, **Lokesh A. Shastri***, Ravindra Hunnur, Vinay Sunagar, *Synthetic Comm.* **2016**, 46, 869–877.
42. Synthesis, anti-microbial and anti-cancer evaluation study of 3-(3-benzofuranyl)-coumarin derivatives, Bahubali M. Chougala, Samundeeswari L. Shastri, Megharaja Holiyachi, **Lokesh A. Shastri***, Sunil S More, Ramesh K.V. *Med. Chem. Res.* **2015**, 24, 4128–4138
43. Synthesis, characterization and bifunctional applications of bidentate silver nanoparticle assisted single drop microextraction as a highly sensitive preconcentrating probe for protein analysis, **Lokesh A. Shastri**, Hani Nasser Abdelhamid, Mohd Nawaz and Hui-Fen Wu, *RSC, Adv.* **2015**, 5, 41595-41603.
44. Effect of Base for the Efficient Synthesis of 4-Formylcoumarins and 4-Formylcarbostyrils, Megharaja Holiyachi, Samundeeswari L. Shastri, Bahubali M. Chougala and **Lokesh A. Shastri***, *Synthetic Comm.* **2015**, 45, 1002-1008.
45. An Efficient And Convenient Synthesis Of 1, 4-Benzoxazines, 1, 4-Benzothiazines, Spiro-1, 4-Benzoxazines, And Spiro-1, 4-Benzothiazines, Samundeeswari L. Shastri, Bahubali, M. Chougala, Manohar V. Kulkarni, **Lokesh A. Shastri***, *Synthetic Comm.* **2013**, 43, 2464–2474.

46. Stereoselective Synthesis of *cis*-Substituted-3'-Anilino-2', 3'-dihydro-4-2'-benzo[*b*]furanyl coumarins via Intramolecular Aldol Reactions, **Lokesh A. Shastri**, Samundeeswari L. Shastri, Manohar V. Kulkarni, Vivek K. Gupta and Sanjeev Goswami, *Int. J. Org. Chem.* **2012**, 2, 44-48.
47. Analysis of two Fluorescent Molecules Properties Using Solvatochromic Shift Method, N.R. Patil, R. M. Melavanki, B. M. Chougala, **L.A. Shastri** and F M Sanningannavar, *Int. J. Life. Scie. Pharma Resea.* 2012, 2, 139-149.
48. Mild, Simple, and Efficient Method for *N*-Formylation of Secondary Amines via Reimer–Tiemann Reaction, **Lokesh A. Shastri***, Samundeeswari L. Shastri, Chinna D. Bathula, Mahantesha Basanagouda, and Manohar V. Kulkarni, *Synthetic Comm.* 2011, 41, 1-8.
49. Electrostatically self-assembled azides on zinc sulfide nanoparticles as multifunctional nanoprobe for peptide and protein analysis in MALDI-TOF MS, Hui-Fen Wu, Suresh Kumar Kailas, **Lokesh Shastri**, *Talanta*, **2010**, 82 540–547
50. Nanoparticle-single drop microextraction as multifunctional and sensitive nanoprobe: Binary matrix approach for gold nanoparticles modified with (4-mercaptophenyliminomethyl)-2-methoxyphenol for peptide and protein analysis in MALDI-TOF MS, **Lokesh Shastri**, Suresh Kumar Kailasa, Hui-Fen Wu, *Talanta*, 2010, 81, 1176–1182.
51. Cysteine-capped ZnSe quantum dots as affinity and accelerating probes for microwave enzymatic digestion of proteins via direct matrix-assisted laser desorption/ionization time-of-flight mass spectrometric analysis, **Lokesh A. Shastri**, Suresh Kumar Kailasa and Hui-Fen Wu, *Rapid Commun. Mass Spectrom.* **2009**; 23: 2247–2252.
52. Multi-component reactions of formyl-4-aryloxymethyl coumarins under microwave irradiation. K. Shivashankar, **Lokesh. A. Shastri**, Manohar. V. Kulkarni, Vijaykumar. P. Rasal, Deepak. M. Saindane, *J. Indian Chem. Soc.* **2009**, 86, 265-271.
53. 5-Phenylpyridazinones-A serendipitous route from coumarins, Manjunath D. Ghate, Vithal B. Jadhav, **Lokesh A. Shastri**, Manohar V. Kulkarni, Geeta M. Kulkarni, Chih- Hau Chen, Chung-Ming Sun, *Tetrahedron Lett.* **2008**, 49, 4394–4396.
54. Halogenated 4-Aryloxymethyl coumarins as potent antimicrobial agents K. Shivashankar, **Lokesh. A. Shastri**, Manohar. V. Kulkarni, Vijaykumar. P. Rasal, Deepak. M Saindane *J. Indian Chem. Soc.* **2008**, 85, 1163-1168.
55. The synthesis of pyrrole *bis*-coumarins, new structures for fluorescent probes, **Lokesh Shastri**, Shivashankar Kalegowda and Manohar Kulkarni *Tetrahedron Lett.* 2007, 48, 7215–7217.
56. First Thermal Chemoselective Synthesis of Novel 2,3-Dihydro-3-Hydroxybenzofuranyl coumarins, **L. A. Shastri**, M. V. Kulkarni, V. Gupta, and N. Sharma, *Synthetic Comm.* **2008**, 38,1407–1415.
57. Synthetic and biological studies on 4-aryloxymethyl coumarinyl thiazolidinones, K. Shivashankar, M. V. Kulkarni, **L. A. Shastri**, V. P. Rasal and S. V. Rajendra. *Phosphorus, Sulfur, and Silicon*, **2008**, 183, 56-68.

58. Facile synthesis of some novel 4-{3-aryl-3,4-dihydro-2*H*-benzo[*b*][1,4] thiazin-2-yl}-2*H*-chromen-2-one derivatives, **Lokesh A. Shastri**, K. Shivashankar and Manohar V. Kulkarni, *Journal of Sulfur Chem.* **2007**, 28, 625–630.
59. The Synthesis and Biological Evaluation of Regioisomeric Benzothiazolyl Coumarins
K. Shivashankar Manohar V. Kulkarni and **Lokesh A. Shastri**, *Phosphorus, Sulfur, and Silicon*, 2006, 181, 2187–2200.
60. Dual fluorescence and biological evaluation of paracetamol ethers from 4-bromomethyl coumarins, **Lokesh A. Shastri**, Manjunath D.Ghate and Manohar V. Kulkarni, *Indian J. Chem.* **2004**, 43B, 2416-2422.