

## Teacher Profile



- 1) **Name of teacher:** Dr. Sandeep S Kahandal
- 2) **Gender:** Male
- 3) **Department:** Department of Chemistry
- 4) **Highest qualification:** M.Sc., Ph.D, NET, SET,GATE
- 5) **Date of passing of highest qualification:** 12<sup>th</sup> January 2014.
- 6) **Name of University for above qualification:**  
University of Mumbai (Institute of Chemical Technology, Mumbai)
- 7) **Nature of post :** Permanent
- 8) **Designation :** Assistant Professor
- 9) **Date of appointment:** 21<sup>st</sup> March 2014.
- 10) **Teaching experience in years:** UG: 5 Year, PG: 3 Year
- 11) **Participation in various bodies of (universities/ autonomous colleges/ other colleges, such as BoS & academic council)-**  
Name of body: Nil  
Year: Nil
- 12) **Awards, recognition fellowship at state, national, international level from government recognized bodies with date:**
  - i. **Junior Research Fellowship (JRF)** CSIR (Council of Scientific and Industrial Research) 2009.
  - ii. **Senior Research Fellowship (SRF)**CSIR (Council of Scientific and Industrial Research) 2011.
  - iii. Shri. G.M. Abhyankar Research Presentation Award (2010).
  - iv. Shri. G.M. Abhyankar Research Presentation Award (2011)
- 13) **Government/Non- government Grants for research projects- Nil**  
(Name of project /Gov or non-Gov./year of award/ duration of project/ funds provided in lakhs)
- 14) **Recognized as research guide- Nil**  
Date of recognition:

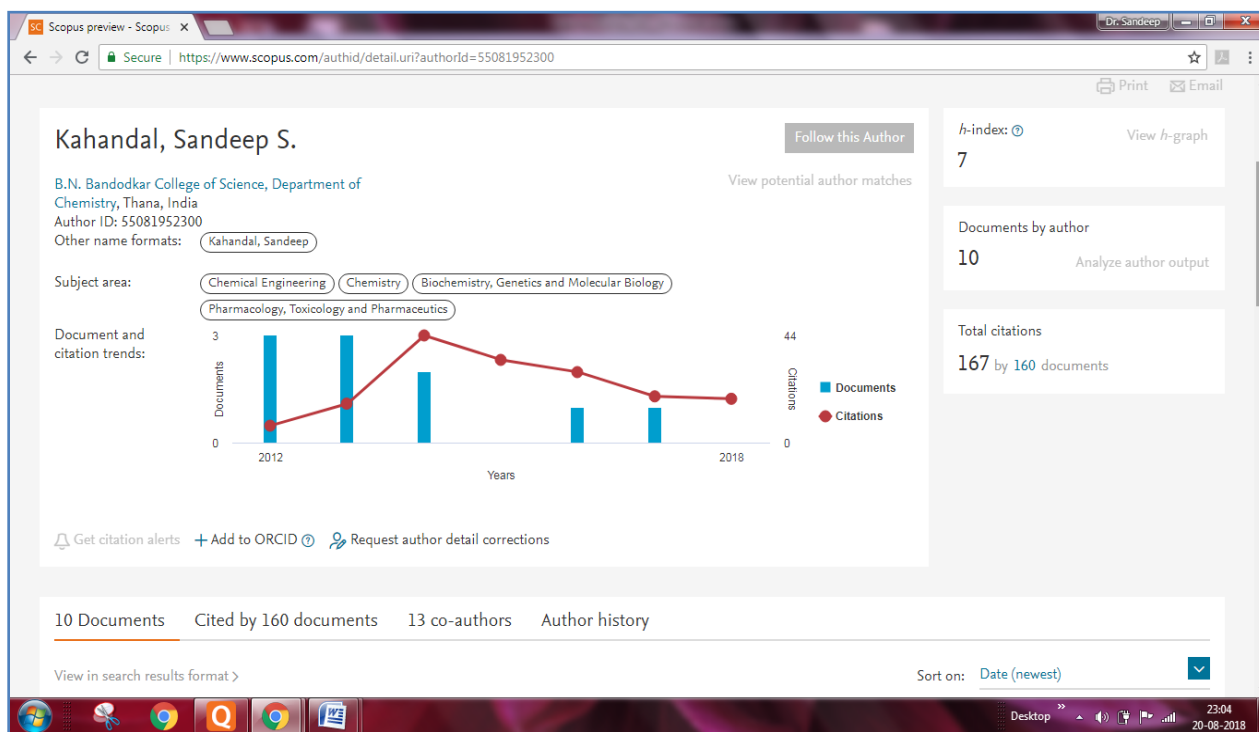
Number of PhD students with name /registration date / Title of PhD/ year of award:

15) List of research papers in journal notified on UGC website-

| Sr. | Title                                                                                                                                 | Name of author's                                                                   | Name of journal                                                                     | year                                  | ISBN/ISSN number and Link of the recognition in UGC enlistment of the Journal                                                                                                                                                                            |
|-----|---------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1   | Sulphated ceria-zirconia catalysed synthesis of N-tert-butyl amides from tert-butyl acetate under solvent-free conditions.            | <b>Sandeep S. Kahandal</b> ,<br>S. R. Kale,<br>S. T. Disale<br>and R. V. Jayaram.  | <i>Chemistry Letters</i><br>Also<br><b>Highlighted in Synfacts 2012, 8,10,1161</b>  | 2012,<br>41, 7,<br>738.               | <b>ISSN : 1348-0715</b><br><b>Print ISSN : 0366-7022</b><br><a href="https://www.ugc.ac.in/journallist/ugc_admin_journal_report.aspx?eid=NTUyNw==">https://www.ugc.ac.in/journallist/ugc_admin_journal_report.aspx?eid=NTUyNw==</a><br><b>I.F.-1.625</b> |
| 2   | Sulphated yttria-zirconia as a regioselective catalyst system for the alcoholysis of epoxides                                         | <b>Sandeep S. Kahandal</b> ,<br>S. R. Kale,<br>S. T. Disale<br>and R. V. Jayaram.  | <i>Catalysis Science and Technology</i>                                             | 2012,<br>2,<br>1493 –<br>1499.        | <b>ISSN Number :20444753</b><br><a href="https://www.ugc.ac.in/journallist/ugc_admin_journal_report.aspx?eid=NTE3NA==">https://www.ugc.ac.in/journallist/ugc_admin_journal_report.aspx?eid=NTE3NA==</a><br><b>I.F.- 5.773</b>                            |
| 3   | Choline chloride. 2ZnCl <sub>2</sub> ionic liquid: An efficient and Reusable catalyst for the solvent free Kabachnik-Fields reaction. | Shamrao T. Disale, S. R. Kale,<br><b>Sandeep S. Kahandal</b><br>and R. V. Jayaram  | <i>Tetrahedron Letters</i> ,<br><b>Highlighted in ChemInform 2012, 43, issue 34</b> | 2012,<br>53,<br>18,<br>2277–<br>2279. | <b>ISSN: 0040-4039</b><br><a href="https://www.ugc.ac.in/journallist/ugc_admin_journal_report.aspx?eid=MjQyMzc=">https://www.ugc.ac.in/journallist/ugc_admin_journal_report.aspx?eid=MjQyMzc=</a><br><b>I.F.-2.125</b>                                   |
| 4   | Conventional and microwave-assisted multicomponent reaction of alkyne, halide and sodium azide catalyzed by copper apatite as         | S. R. Kale,<br><b>Sandeep S.Kahandal</b><br>, S. T. Disale<br>and Radha V. Jayaram | <i>Current Chemistry Letters</i>                                                    | 2012,<br>1, 69–<br>80                 | <b>Online ISSN: 1348-0715.</b><br><b>Print ISSN : 0366-7022</b><br><a href="https://www.ugc.ac.in/journallist/u">https://www.ugc.ac.in/journallist/u</a>                                                                                                 |

|   |                                                                                                                                                                |                                                                                                                                            |                                                                                |                          |                                                                                                                                                                                                                               |
|---|----------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------|--------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|   | heterogeneous base and catalyst in water.                                                                                                                      |                                                                                                                                            |                                                                                |                          | gc_admin_journal_report.aspx?eid=NDMyNjg=                                                                                                                                                                                     |
| 5 | A mild route for one pot synthesis of 5,6-unsubstituted 1,4-dihydropyridines catalyzed by sulphated mixed metal oxides                                         | <b>Sandeep S. Kahandal</b> ,<br>S. R. Kale,<br>M. B. Gawande,<br>Radha V. Jayaram                                                          | <i>Catalysis Science &amp; Technology</i>                                      | 2014,<br>4,<br>672-680   | <b>ISSN Number :20444753</b><br><a href="https://www.ugc.ac.in/journallist/ugc_admin_journal_report.aspx?eid=NTE3NA==">https://www.ugc.ac.in/journallist/ugc_admin_journal_report.aspx?eid=NTE3NA==</a><br><b>I.F.- 5.773</b> |
| 6 | Sequential synthesis of $\beta$ -amino alcohols using a CeO <sub>2</sub> –ZrO <sub>2</sub> bifunctional catalyst system                                        | <u>K.D. Parghi</u> ,<br><u>S.R. Kale</u> ,<br><b><u>Sandeep S. Kahandal</u></b> ,<br><u>M. B. Gawande</u><br>and <u>Radha V. Jayaram</u>   | <i>Catalysis Science &amp; Technology</i>                                      | 2013,<br>3,<br>1308-1313 | <b>ISSN Number :20444753</b><br><a href="https://www.ugc.ac.in/journallist/ugc_admin_journal_report.aspx?eid=NTE3NA==">https://www.ugc.ac.in/journallist/ugc_admin_journal_report.aspx?eid=NTE3NA==</a><br><b>I.F.- 5.773</b> |
| 7 | A benign synthesis of 2-amino-4H-chromene in aqueous medium using hydrotalcite (HT) as a heterogeneous base catalyst                                           | <u>S. R. Kale</u> ,<br><b><u>Sandeep S. Kahandal</u></b> ,<br><u>A.S. Burange</u> ,<br><u>M. B. Gawande</u><br>and <u>Radha V. Jayaram</u> | <i>Catalysis Science &amp; Technology</i>                                      | 2013,<br>3,<br>2050-2056 | <b>ISSN Number :20444753</b><br><a href="https://www.ugc.ac.in/journallist/ugc_admin_journal_report.aspx?eid=NTE3NA==">https://www.ugc.ac.in/journallist/ugc_admin_journal_report.aspx?eid=NTE3NA==</a><br><b>I.F.- 5.773</b> |
| 8 | Magnetically recyclable gamma-Fe <sub>2</sub> O <sub>3</sub> –HAP nanoparticles for the cycloaddition reaction of alkynes, halides and azides in aqueous media | S.R. Kale,<br><b>Sandeep S. Kahandal</b> ,<br>M. B. Gawande,<br>and Radha V. Jayaram                                                       | <i>RSC Advances</i>                                                            | 2013,<br>3,<br>8184-8192 | <b>ISSN 2046-2069</b><br><a href="https://www.ugc.ac.in/journallist/ugc_admin_journal_report.aspx?eid=MjM2MjU=">https://www.ugc.ac.in/journallist/ugc_admin_journal_report.aspx?eid=MjM2MjU=</a><br><b>I.F.-2.936</b>         |
| 9 | Greener iodination of arenes using sulphated ceria–zirconia catalysts in polyethylene glycol                                                                   | <u>S. R. Kale</u> ,<br><b><u>Sandeep S. Kahandal</u></b> ,<br><u>A.S. Burange</u> ,<br><u>M. B. Gawande</u>                                | <i>RSC Advances</i><br><br><b>Highlighted in ChemInform 2014, 45, issue 41</b> | 2014,<br>4,<br>6267      | <b>ISSN 2046-2069</b><br><a href="https://www.ugc.ac.in/journallist/ugc_admin_journal_report.aspx?eid=MjM2MjU=">https://www.ugc.ac.in/journallist/ugc_admin_journal_report.aspx?eid=MjM2MjU=</a>                              |

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|----|---------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------|-------------------------------|-------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|    |                                                                                                               | and Radha<br>V. Jayaram                                                                          |                               |                   | <b>I.F.-2.936</b>                                                                                                                                                                                                             |
| 10 | A Sustainable and Efficient Synthesis of Benzyl Phosphonates Using PEG/KI Catalytic System                    | S.T. Disale, S.R Kale, G.Abraham, <b>Sandeep Kahandal</b> , A. N. Sawarkar, and Manoj B. Gawande | <i>Frontiers in Chemistry</i> | 2016 , 4, 35, 1-6 | <b>ISSN Number :22962646</b><br><a href="https://www.ugc.ac.in/journallist/ugc_admin_journal_report.aspx?eid=MTc3MjI=">https://www.ugc.ac.in/journallist/ugc_admin_journal_report.aspx?eid=MTc3MjI=</a><br><b>I.F.- 4.155</b> |
| 11 | An efficient route to 1,8-dioxo-octahydroxanthenes and -decahydroacridines using a sulfated zirconia catalyst | <b>Sandeep S. Kahandal</b> , A. S. Burange, S. R. Kale, P. Prinsen, R. Luque, Radha V. Jayaram   | <i>Catalysis Communi.</i>     | 2017, 97, 138-145 | <b>ISSN Number :15667367</b><br><a href="https://www.ugc.ac.in/journallist/ugc_admin_journal_report.aspx?eid=NTE2Nw==">https://www.ugc.ac.in/journallist/ugc_admin_journal_report.aspx?eid=NTE2Nw==</a><br><b>I.F.-3.463</b>  |



## Presentations

1.  $\text{SO}_4^{2-}/\text{Ce}_x\text{Zr}_{1-x}\text{O}_2$  catalysed efficient synthesis of N-*tert*-butyl amides from *tert*-butyl acetate under solvent-free conditions.  
Sandeep S. Kahandal and Radha V. Jayaram\* “**20<sup>th</sup> National Symposium on Catalysis**” in IIT Madras, Chennai (Tamil Nadu) on 19-22<sup>th</sup> December 2010 organized by NCCR, IIT Madras, Chennai, India.
2. Sulphated Ytria-Zirconia as highly regioselectivity catalysts for alcoholysis of Epoxides  
Sandeep S. Kahandal and Radha V. Jayaram\* **International conference on Global Challenge's- The role of Chemistry in giving their solutions**(June 12 - 14, 2011, Indian Council of Chemists, Bangkok, Thailand).
3. Sulphated ceria-zirconia catalysed efficient synthesis of N-*tert*-butyl amides from *tert*-butyl acetate under solvent-free conditions  
Sandeep S. Kahandal and Radha V. Jayaram\* Oral Presentation at “**CATSCHOL -2011**” Organized by Department of Chemistry, ICT, Mumbai in collaboration with Catalysis Society of India (Mumbai Chapter) on 5<sup>th</sup> March 2011.
4. Surface modified metal oxides in various organic transformations.  
Sandeep S. Kahandal and Radha V. Jayaram\* Oral Presentation at “**Research Scholar Meet (RSM)-2012**” Organized by Department of Chemistry, SIES College, Mumbai in collaboration with Catalysis Society of India (Mumbai Chapter) on January 2012.

## Workshops/Seminars

1. Attended a two days course on **Laboratory Safety** conducted by Department of chemistry under the auspices of Technical Education Quality Improvement Programme (TEQIP) Institute of Chemical Technology Mumbai.
2. Attended and actively participated in the deliberations in the workshop on “**Catalysis Characterization and Catalysis**” organized by ICT in collaboration with Catalysis Society of India, held at Institute of Chemical Technology Mumbai.
3. Worked as a volunteer for the workshop **Chemflavour** for High School Students, under the auspices of Technical Education Quality Improvement Programme (TEQIP) at Institute of Chemical Technology Mumbai.

4. Attended a one days training on **Science Journalism** conducted by National centre for Science communications, Mumbai and Institute of Chemical Technology, Mumbai held on 21<sup>st</sup> Jan. 2012.
5. Participated in 9<sup>th</sup> Orientation Programme in Catalysis for research scholars, conducted by NCCR, IIT, Madras, Tamilnadu, 17<sup>th</sup> Nov.-8<sup>th</sup> Dec 2008.

16) **Books and chapters in edited volumes/books-** Nil

17) **Papers in national/ international conference proceedings-**

| No | Title of the paper                                                                                                       | Title of the proceedings of the conference                                                                        | Name of the conference                                                         | National / international | ISBN/ISSN number of the proceeding: | Relevant link:                                                                                                                                                                              |
|----|--------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------|--------------------------|-------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1  | Preliminary Phytochemical screening of Fenugreek Leaves (Air, Oven and Microwave dried ) and dry Seeds, Page No: 103-108 | Proceedings of the 2 <sup>nd</sup> International Conference on Emerging Technologies for Sustainable Agriculture. | International Conference on Emerging Technologies for Sustainable Agriculture. | International            | 978-81-923628-4-7                   | <a href="http://www.vpmthane.org/sci/Sustainable_Agriculture_ICONTESA_6-7.Jan.17_Proceeding.pdf">http://www.vpmthane.org/sci/Sustainable_Agriculture_ICONTESA_6-7.Jan.17_Proceeding.pdf</a> |
| 2  | Calcium estimation of Fenugreek Leaves and seeds by Various estimation methods. Page No: 113-117                         | Proceedings of the 2 <sup>nd</sup> International Conference on Emerging Technologies for Sustainable Agriculture. | International Conference on Emerging Technologies for Sustainable Agriculture. | International            | 978-81-923628-4-7                   | <a href="http://www.vpmthane.org/sci/Sustainable_Agriculture_ICONTESA_6-7.Jan.17_Proceeding.pdf">http://www.vpmthane.org/sci/Sustainable_Agriculture_ICONTESA_6-7.Jan.17_Proceeding.pdf</a> |

