


Curriculum-Vitae

	<p>Dr. Sunil U. Tekale (M. Sc., Ph.D., NET) Assistant Professor, Department of Chemistry, Deogiri college, Aurangabad (MS) India 431005. E-mail: tekale.sunil@rediffmail.com Mob: 8411920292</p>	
Specialization	Organic Chemistry	
Research Interests	Synthetic Organic Chemistry, Medicinal Chemistry, Heterocyclic Chemistry, Catalysis	
Experience	Teaching: 11 Years	Research: 13 Years
Position held in past	<p>Worked: At National Chemical Laboratory, Pune. Senior Research Chemist: At medicinal chemistry Division, Sai Advantium Pharma, Pune.</p>	
Significant Achievements	<p>Awards</p> <ul style="list-style-type: none"> • SPARC AWARD given by Sai Advantium Pharma, Pune (MS) India. • Eklavya National Merit Scholarship for post-graduation Sponsored by the Government of Maharashtra, during M.Sc. Degree (2004-2005). • Best paper presentation award in national conference on “Research in Chemical Science” at Milliya College Beed 2011. • Recognized Research Guide in Chemistry, Dr. Babasaheb Ambedkar Marathwada University, Aurangabad (MS). • Ph.D. guidance: 3 students ongoing. • PG Recognized teacher. 	
Publication profile	<ul style="list-style-type: none"> • Number of Books Published : 03 • Number of Research Articles Published in International journals: 68 • Number of Book chapters published: 06 • Google scholar citations : 680 • Google scholar h-index: 14 • Google scholar i-10 index : 15 	

Minor Research Projects completed	<ol style="list-style-type: none"><li data-bbox="451 100 1435 283">1. Completed a UGC sponsored Minor Research Project in Chemistry entitled “Multicomponent Synthesis of Some Biologically Active Heterocyclic Compounds [47-283/12(WRO)]” during June 2013-2015.<li data-bbox="451 294 1435 483">2. Completed a Dr. Babasaheb Ambedkar Marathwada University, Aurangabad sponsored Minor Research Project in Chemistry entitled “Synthesis and antifungal evaluation of some thiazolyl hydrazines” during 2018-19.<li data-bbox="451 493 1435 577">3. “Design, synthesis and anticancer screening of some triazolyl hybrids” (Ongoing)
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Significant achievements:

1. Editorial Board Member, International Journal of Advanced Scientific Research.
2. Reviewer, Materials Chemistry and Physics.
3. Reviewer, Arabian Journal of Chemistry.
4. Reviewer, Medicinal Chemistry Research.
5. Reviewer, Arabian Journal of Chemistry.
6. Reviewer, SN Applied Sciences.
7. Reviewer, Scientific Reports.
8. Reviewer, Computational Biology and Chemistry.

- **Books published:** *Progressive Chemistry* - By R.P. Pawar, **S. U. Tekale**, V. P. Pagore, V. B. Jadhav

- **Concise undergraduate organic chemistry** – **Dr. Sunil Tekale**, Dr. Rajendra Pawar

- **List of articles published in international journals:**

1. Cobalt ferrite magnetic nanoparticles as highly efficient catalyst for the mechanochemical synthesis of 2-aryl benzimidazoles. Ravikumar M. Borade, Swati B. Kale, **Sunil U. Tekale**, K.M. Jadhav, Rajendra P. Pawar, *Catalysis Communications* **2021**, 159, 106349 ([Impact factor](#) = 3.62).
2. Revisiting applications of molecular iodine in organic synthesis Popat M. Jadhav, Ambadas B. Rode, László Kótai, Rajendra P. Pawar and Sunil U. Tekale *New Journal of Chemistry* **2021**, <https://doi.org/10.1039/D1NJ02560K> ([Impact factor](#) = 3.28).
3. Recent developments in biodegradable block copolymers Sunil U. Tekale, Yakir Rottenberg, Rajita D. Ingle, Abraham J. Domb, Rajendra P. Pawar *Polymers for Advanced Technologies* 2021, 1-23. ([Impact factor](#) = 3.66).
4. A review on biological and medicinal significance of thiazoles Popat M Jadhav, Srinivas Kantevari, Atam B Tekale, Sheshanath V Bhosale, Rajendra P Pawar, Sunil U Tekale *Phosphorus, Sulfur, and Silicon and the Related Elements* **2021**, 1-17. <https://doi.org/10.1080/10426507.2021.1945601> ([Impact factor](#) = 1.04).
5. An efficient and rapid synthesis of 1,4-dihydropyrano[2,3-c]pyran and 1,4-dihydropyrano[2,3-c]quinoline derivatives using copper nanoparticles grafted on carbon microspheres Nitishkumar S. Kaminwar Sunil U. Tekale, Rajkumar U. Pokalwar, László Kótai, & Rajendra P. Pawar *Polycyclic Aromatic Hydrocarbons*, **2021**, <https://doi.org/10.1080/10406638.2021.1950194> ([Impact factor](#) = 1.89).

6. Novel synthesis of benzyl-methoxyl protected aspalathin analog via C-glucosylation of pentamethoxy dihydropropane Pravin Kendrekar, Mojalefa Setlai, Sunil Tekale, Rajita Ingle, Chandrashekhar Vishwanath Kulkarni, Rajendra Pawar *Letters in Applied NanoBioScience* **2021**, 10(3), 2382-2388.
7. Silver nanoparticles catalyzed synthesis and antimicrobial activity of 2-amino-4H-chromenes Priya Khandare, Rajiv Dixit, Sadhna Salve, **Sunil Tekale**, Rajita Ingle, Rajendra Pawar *Letters in Applied NanoBioScience* **2021**, 10(4), 2715 - 2721.
8. Amberlite IR-120 Catalyzed Green and Efficient One-Pot Synthesis of Benzylpyrazolyl Coumarin in Aqueous Medium Ashishkumar P Katariya, Satish U Deshmukh, **Sunil U Tekale**, Maya V Katariya, Rajendra P Pawar *Letters in Applied NanoBioScience* **2021**, 2525-2534.
9. Synthesis and biological evaluation of novel thiazole hydrazines as antimicrobial and antimalarial agents. Vishnu A Gore, **Sunil U Tekale**, Someshwar P Bhale, Dhanaji P Rajani, Abraham J Domb, Rajendra P Pawar *Letters in Applied NanoBioScience* **2021**, 10(1), 1846-1855.
10. Pyridine and benzoisothiazole decorated vanillin chalcones: Synthesis, antimicrobial, antioxidant, molecular docking study and ADMET properties. Pintu Pathare, Sunil Tekale, Rafique Shaikh, Manoj Damale, Jaiprakash Sangshetti, Dhanaji Rajani, Rajendra Pawar *Current Organic Synthesis* **2020**, 17(5), 367-381. (Impact factor = 1.84).
11. Lemon peel powder: A natural catalyst for multicomponent synthesis of coumarin derivatives. Ganesh D Jadhav, Taufique Ahmed P Mujawar, Sunil U Tekale, Rajendra P Pawar, Yogesh W More *Current Organocatalysis* **2020**, 7(2), 140-148. (Impact factor = 1.01).
12. Synthesis of pyran annulated heterocyclic compounds under catalyst free conditions using aqueous ethylene glycol Sushama S Kauthale, Sunil U Tekale, László Kótai, Pravin S Kendrekar, Rajendra P Pawar *Organic Preparations and Procedures International* **2020**, 52(6), 564-571. (Impact factor = 0.84).
13. Synthesis of benzimidazoles using pomegranate peel powder as a natural and efficient catalyst Swati S. Ghodke, Priya M. Khandare, Rajita D. Ingle, Sunil U. Tekale, Rajendra P. Pawar *Letters in Applied NanoBioScience* **2021**, 10(3), 2501-2505.
14. Synthesis, characterization and antimicrobial activity of transition metal complexes of 4-[(2-hydroxy-4-methoxyphenyl) methyleneamino]-2, 4-dihydro-3H-1, 2, 4-triazole-3-thione. Someshwar P Bhale, Ashok R Yadav, Pintu G Pathare, **Sunil U. Tekale**, Fernanda Paiva Franguelli, László Kótai, Rajendra P Pawar *European Chemical Bulletin* **2020**, 9(12), 430-435.

15. Synthesis and Biological Evaluation Study of New Bisimine Ligand and Metal Complexes Nirmal Joshi, Vishnu Gore, Sunil Tekale, Rajesh Nawale, Dhanaji Rajani, Saroj Bembalkar, Rajendra Pawar *Letters in Applied NanoBioScience* **2021**, 10(2), 2207-2214.
16. Synthesis, characterization and biological activity of transition metal complexes of [1-(2-bromo, 5-methoxy benzylidene) hydrazine] ligand Nirmal Joshi, Vishnu Gore, **Sunil Tekale**, Dhanaji Rajani, Saroj Bembalkar, Rajendra Pawar *Letters in Applied NanoBioScience* **2021**, 10(2), 2056-2062.
17. Eco-friendly synthesis of 1, 4-dihydropyrano-[2,3-c] pyrazoles using copper nanoparticles grafted on carbon microsphere as a heterogeneous catalyst Nitishkumar S. Kaminwar, Sunil. U. Tekale, Anil B. Chidrawar, László Kótai, Rajendra P. Pawar *Letters in Applied NanoBioScience* **2020**, 9(4), 1521-1528.
18. Synthesis, characterization and antimicrobial activity of Ni (II), Zn (II), and Cd (II) complexes of 3/4-bromobenzoic acid (phenyl-pyridine-2-yl-methylene)-hydrazide ligand. Someshwar Bhale, Vishnu Gore, **Sunil Tekale**, R Pawar *Letters in Applied NanoBioScience* **2020**, 9, 1529-1537.
19. COVID-19: A global pandemic. Swapnil R Sarda, Sunil U Tekale, László Kótai, Abraham J Domb, Rajendra P Pawar *European Chemical Bulletin*, **2020**, 9(8), 266-272.
20. Synthesis of some novel and potent anti-plasmodial aminoalkyl chalcone derivatives. P Kendrekar, S Mashele, **S Tekale**, R Pawar *Biointerface Research in Applied Chemistry* 10, 6076-6081.
21. One-pot synthesis of pyrano [2, 3-c] pyrazoles using lemon peel powder as a green and natural catalyst. Swati S Ghodke, **Sunil U Tekale**, Rashmi D Pathrikar, Priya M Khandare, László Kótai, Rajendra P Pawar. **2020**, *European Chemical Bulletin* 9(2), 38-42.
22. Eaton's reagent catalyzed synthesis, in vitro α -amylase inhibitory activity and molecular docking study of some Schiff's bases as diabetic-II inhibitors Sushama Kauthale, **Sunil Tekale**, Ambadas Rode, Rajesh Patil, Jaiprakash Sangshetti, László Kótai and Rajendra Pawar *European Chemical Bulletin* **2019**, 8(11), 356-362.
23. Silica supported perchloric acid: An efficient and recyclable catalyst for synthesis of benzimidazo[2,3-b]quinazolinones Vinod V. Throat, Maya V. Katariya, **Sunil U. Tekale**, Rupali L. Magar, Samson Mashele, Pravin S. Kendrekar and Rajendra P. Pawar *European Chemical Bulletin* **2019**, 8(9), 313-317.
24. Synthesis of 3, 4-dihydropyrano-[c]-chromenes using carbon microsphere supported copper nanoparticles (Cu-NP/C) prepared from loaded cation exchange resin as a catalyst Yogesh W More, **Sunil U Tekale**, Nitishkumar S Kaminwar, László Kótai, Tibor Pasinszki, Pravin S Kendrekar, Rajendra P Pawar, *Current Organic Synthesis* 16(2), 288-293, 2019.

(Impact factor =1.84).

25. One pot synthesis of pyranopyrazole using sodium lactate as an efficient catalyst, Jayant P Sonar, SD Pardeshi, SA Dokhe, GM Bhavar, **SU Tekale**, AM Zine, SN Thore *European Chemical Bulletin* 8(6), 207-211, 2019.
26. One pot multicomponent synthesis of highly functionalized pyridines using morpholine organobase catalyst, Sushama S Kauthale, **Sunil U Tekale**, Vijay P Pagore, Kishor G Hüge, Rajendra P Pawar *European Chemical Bulletin* 8(3), 71-77, 2019.
27. A rapid and convenient synthesis of acridine derivatives using camphor sulfonic acid catalyst, DS Bhagat, **SU Tekale**, AK Dhas, SU Deshmukh, RP Pawar, PS Kendrekar *Organic Preparations and Procedures International*, **2019**, 51(1), 96-101. (Impact factor =1.52).
28. Synthesis, biological evaluation, molecular docking, and ADMET studies of some isoxazole-based amides, Sushama Kauthale, **Sunil Tekale**, Manoj Damale, Jaiprakash Sangshetti, Rajendra Pawar, *Medicinal Chemistry Research* **2018**, 27, 429-441. (Impact factor =1.72).
29. Synthesis, characterization and antimicrobial screening of novel hydrazide ligand & its transition metal complexes, S.P. Bhale, A.R. Yadav, **S.U. Tekale**, R.B. Nawale, R.P. Marathe, P.S. Kendrekar and R.P. Pawar *Asian Journal of Chemistry* 31(4), 938-942, 2019. 0975-427X
30. Synthesis and antimicrobial activity of 1-(2'-hydroxy-3''/5''-chloro-5''/3''-chloromethylphenyl)-3-(aryl/heteryl)-2-propen-1-ones. K. G. Hüge, B. V. M. Gurav, K. R. Borude, **S. U. Tekale** *Current Pharma Research* 9(4), 3290-3296, 2019.
31. Synthesis, characterization, antimicrobial activity and transition metal complexes of 3-bromo-N'-(1-(5-chloro-2-hydroxyphenyl)ethylidene) benzohydrazide ligand. Someshwar Bhale, **Sunil U. Tekale**, Ram Kohire, Rajendra Phase, Rajendra Pawar *Current Pharma Research* **2019**, 9(4), 3283-3289.
32. Yb(OTf)₃ Catalyzed synthesis, antimicrobial and insecticidal activity of some biscoumarins, **Sunil U. Tekale**, Shivaji N. Thore, Alaknanda M. Dodkey, Pravin S. Kendrekar, Rajendra P. Pawar, *Chemistry & Biology Interface*, **2018**, 8(1), 56-61.
33. An efficient, convenient, and solvent-free synthesis of 2,3-dihydroquinazolin-4(1 H)-ones using montmorillonite-KSF clay as a heterogeneous catalyst, **Sunil U. Tekale**, Shivaji B. Munde, Sushama S. Kauthale, and Rajendra P. Pawar, *Organic Preparations and Procedures International*, **2018**, 50, 314-322 (Impact factor = 1.52).
34. Copper nanoparticles grafted on carbon microspheres as novel heterogeneous catalysts and their application for the reduction of nitrophenol and one-pot multicomponent synthesis of hexahydroquinolines, Tibor Pasinszki, Melinda Krebsz, Gyozo Gyorgy Lajgut, Tu"nde Kocsis, La'szlo' Ko'tai, Sushama Kauthale, **Sunil Tekale** and Rajendra P. Pawar, *New Journal of Chemistry*, **2018**, 42, 1092-1098. (Impact factor =3.26).

35. Synthesis, antioxidant, antifungal, molecular docking and ADMET studies of some thiazolyl hydrazones. Sushama Kauthale, **Sunil Tekale**, Manoj Damale, Jaiprakash Sangshetti, Rajendra Pawar *Bioorganic and Medicinal Chemistry* **2017**, 27, 3891-3896. (Impact factor =2.44).
36. Ethylene glycol promoted catalyst-free pseudo three-component green synthesis of bis(coumarin)s and bis(3-methyl-1-phenyl-1Hpyrazol-5-ol)s, Sushama S. Kauthale, **Sunil U. Tekale**, Kavita M. Jadhav and Rajendra P. Pawar, *Molecular Diversity*, DOI 20(3), 763-770, 2016. (Impact factor =2.03).
37. Cesium carbonate catalyzed efficient synthesis of naphthochromenes under microwave irradiation BD Rupnar, VP Pagore, **SU Tekale**, SU Deshmukh, SB Ubale, RP Pawar *European Chemical Bulletin* **2015**, 4(10-12), 490-492.
38. Novel one-pot synthesis of 4H-chromene derivatives using amino functionalized silica gel catalyst, Vijaykumar M. Joshi, Rupali L. Magar, Prashant B. Throat, **Sunil U. Tekale**, Bhagavan R. Patil, Mangal P. Kale, Rajendra P. Pawar, *Chinese Chemical Letters*, **2014**, 25(3), 455-458. (Impact factor =3.83).
39. La₂O₃/TFE: An efficient system for room temperature synthesis of Hantzsch polyhydroquinolines, **Tekale, S.U.**, Pagore, V.P., Kauthale, S.S., Pawar, R.P. *Chinese Chemical Letters* **2014**, 25, 1149-1152. (Impact factor = 3.83).
40. Biomedical applications of poly(lactic acid), Pawar, R.P., **Tekale, S.U.**, Shisodia, S.U., Totre, J.T., Domb, A.J., *Recent Patents on Regenerative Medicine* **2014**, 4, 40-51.
41. Application progress of recent advances in some copper catalyzed coupling reactions, **Sunil U. Tekale**, Vivekanand B. Jadhav, Vijay P. Pagore, Sushma S. Kauthale, Digambar D. Gaikwad and Rajendra P. Pawar, *Mini-Reviews in Organic Chemistry* **2013**, 10, 281-301. (Impact factor =1.12).
42. Silica gel supported polyamine: a versatile catalyst for one pot synthesis of 2- amino-4H-chromene derivatives, R.L. Magar, P.B. Thorat, V. B. Jadhav, **S. U. Tekale**, S. A. Dake, B. R. Patil, R. P. Pawar, *Journal of Molecular Catalysis A* **2013**, (374-375) 118-124. (Impact factor =2.93).
43. Micron particles of AlN/Al: Efficient, novel and reusable heterogeneous catalyst for the synthesis of bis(indolyl)methanes, **Sunil U. Tekale**, Suresh U. Shisodia, Sushma S. Kauthale, Vivekanand B. Jadhav, Nilesh S. Kanhe, Savita V. Bhoraskar and Rajendra P. Pawar *Synthetic Communications* **2013**, 43(13), 1849-185. (Impact factor =1.43).
44. Solvent free N-Boc protection of amines using AmberlystR A 21 solid base resin as a reusable heterogeneous catalyst, **Sunil U. Tekale**, Sushama S. Kauthale and Rajendra P. Pawar, *Journal of Chilean Chemical Society*, **2013**, 58(1), 1619-1623 (Impact factor =0.6).

45. An efficient synthesis of 4-aryl-substituted 3,4-dihydropyrimidin-2(1H)-ones using nanocomposite ferrite catalyst, Vijaykumar M. Joshi, Sanjay K. Vyawahare, **Sunil U. Tekale**, Sunita B. Shinde, Mohammed Fareesuddin, Satish A. Dake, Suresh U. Shisodia and Rajendra P. Pawar, *Eur. Chem. Bull.* **2013**, 2(7), 481-484
46. Ionic liquid promoted green approach for novel and efficient synthesis of *N*-tosyl imines, S. S. Ardhapure S. A. Siddiqui, **S. U. Tekale**, R. D. Ingle, Sunita B. Shinde and R. P. Pawar, *Eur. Chem. Bull.* **2013**, 2(6), 320-323.
47. Nano-ZnO catalyzed green and efficient one pot four component synthesis of pyranopyrazoles, by **Sunil Tekale**, Sushma S. Kauthale, Kavita Jadhav and Rajendra Pawar, <http://dx.doi.org/10.1155/2013/840954>, *Journal of Chemistry*, **2013**. (Impact factor =1.32).
48. Molecular iodine: An efficient and versatile catalyst for organic synthesis, **Sunil U. Tekale**, Sushma S. Kauthale, Satish A. Dake, Swapnil R. Sarda and Rajendra P. Pawar, *Current Organic Chemistry* **2012**, 16, 1485-1501 (Impact factor =2.02).
49. Nano-particulate aluminium nitride/Al: An efficient and versatile heterogenous catalyst for biginelli scaffolds, **S. U. Tekale**, A. B. Tekale, N. S. Kanhe, S. V. Bhoraskar and R. P. Pawar, *AIP Conf. Proc.* **2011**, 1393, 275-276,
50. Phosphonium ionic liquid catalyzed an efficient synthesis of chalcones Swapnil R. Sarda, Wamanrao N. Jadhav, **Sunil U. Tekale**, Govind V. Jadhav, Bhagwan R. Patil, Gajanan S. Suryawanshi and Rajendra P. Pawar, *Letters in Organic Chemistry* **2009**, 6(6), 481-484 (Impact factor =0.72).
51. Anhydrous zinc chloride: An efficient catalyst for one pot synthesis of 2,3,4,12-tetrahydrobenzo-[4,5]-thiazolo-[2,3b]-quinazolin-1-ones, S. A. Dake, **S. U. Tekale**, S. R. Sarda, W. N. Jadhav, S. R. Bhusare and R. P. Pawar, *Arkivoc*, **2008**, XVII, 241-247 (Impact factor =1.16).
52. Green synthesis of pyran derivatives using lemon peel powder as a natural catalyst and their antimicrobial activity, Khandare PM, Ingle RD, **Tekale SU**, Jadhav AS, Mashele S, Kendrekar PS and Pawar R. P., *SF Journal of Pharmaceutical and Analytical Chemistry* **2018**, 1, 1-3.
53. Sodium tungstate catalyzed green and rapid synthesis of 2, 4, 5-triarylimidazoles Sushama S. Kauthale, **Sunil U. Tekale**, Rajendra P. Pawar, *International Journal of Chem Tech Research* **2017**, 10(5), 2455-9555, 107-111,
54. L-Tyrosine catalyzed mild and efficient synthesis of dihydropyrano [2, 3c] pyrazole under microwave irradiation Balaji D Rupnar, Vijay P Pagore, **Sunil U Tekale**, Suresh U Shisodia, Rajendra P Pawar *Der Chemica Sinica*, **2017**, 8(2), 229-234.

55. Efficient, eco-friendly sulfamic acid catalyzed synthesis of bis(6-aminouracil-5-yl)methane at room temperature B. D. Rupnar, S. U. Deshmukh, V. P. Pagore, **S. U. Tekale** and R. P. Pawar *Rasayan Journal of Chemistry*, **2017**, *10(1)*, 240 -244.
56. Ammonium chloride catalyzed microwave-assisted synthesis of tetrahydrobenzo[b]pyrans, Vijay P. Pagore, **Sunil U. Tekale**, Vivekanand B. Jadhav, Rajendra P. Pawar, *Iranian Journal of Catalysis* **2016**, *6(2)*, 189-192,
57. Ammonium chloride catalyzed aqua mediated synthesis of 2-aminothiazoles, Vijay P. Pagore, **Sunil U. Tekale**, Balaji D. Rupnar and Rajendra P. Pawar, *Der Chemica Sinica* **2015**, *6(5)*, 49-51.
58. Green and efficient synthesis of pyranopyrazoles catalyzed by ammonium chloride in water, Vijay P. Pagore, Balaji D. Rupnar, **Sunil U. Tekale** and Rajendra P. Pawar, *Der Pharma Chemica*, **2015**, *7(6)*, 312-317.
59. Grinding induced solvent free, catalyst free synthesis of β -enaminones and β - enamino esters **Sunil U. Tekale**, Vivekanand B. Jadhav, Shivaji B. Munde and Rajendra P. Pawar *Der Chemica Sinica* **2015**, *6(1)*, 38-41,
60. Efficient and green synthesis of 2-amino-4H-chromenes Vijay P. Pagore, **Sunil U. Tekale**, Balaji D. Rupnar and Rajendra P. Pawar *Journal of Chemical and Pharmaceutical Research*, **2015**, *7(8)*, 1057-1061.
61. Ammonium trifluoroacetate mediated efficient synthesis of bis (indolyl) methanes Vivekanand B. Jadhav, Srinivas L. Nakkalwar, **Sunil U. Tekale**, Shivaji B. Munde and S. B. Patwari *Der Chemica Sinica*, **2015**, *6(2)*, 20-24.
62. Aluminium nitride catalyzed solvent-free synthesis of some novel biologically active α -aminophosphonates, **S. U. Tekale**, S. S. Kauthale, V.U. Borde, R. U. Shaikh, R. P. Marathe, R. B. Nawale and R. P. Pawar, *Journal of the Iranian Chemical Society*, **2014**, *11*, 717-724, ([Impact factor](#) =1.74).
63. $\text{Fe}_{0.2}\text{Al}_{1.8}\text{Zn}_1\text{O}_4$ composite: An efficient catalyst for the synthesis of 1, 4- Dihydropyridine derivatives, Vijay Kumar M. Joshi, **Sunil U. Tekale**, Sushama S. Kauthale, Sanjay K. Vyawahare, Ashok M. Zine, Sunita B. Shinde, K. L. Ameta and Rajendra P. Pawar, *American Chemical Science Journal*, **2014**, *4(4)*, 416-423,
64. ZnO nanoparticle-catalyzed efficient one-pot three-component synthesis of 3,4,5-trisubstituted furan-2(5H)-ones, **Sunil U. Tekale**, Sushma S. Kauthale, Vijay P. Pagore, Vivekanand B. Jadhav, Rajendra P. Pawar, *Iranian Journal of Chemical Society*, **2013**, *10(6)*, 1271-1277 ([Impact factor](#) =1.74).

65. Micron-particulate crystalline hexagonal aluminium nitride: A novel, efficient and versatile heterogeneous catalyst for the synthesis of some heterocyclic compounds, Nilesh S. Kanhe, **Sunil U. Tekale**, Naveen V. Kulkarni, Ashok B. Nawale, A. K. Das, Sudha V. Boraskar, Rajeeta D. Ingle and Rajendra P. Pawar, *Iranian Journal of Chemical Society* **2013**, *10*, 243-249 (Impact factor =1.74).
66. Bioactive dihydropyrimidines: An overview Vivekanand B. Jadhav, Harish V. Holla, **Sunil U. Tekale** and Rajendra P. Pawar *Der Chemica Sinica* **2012**, *3(5)*, 1213-1228.
67. Trichloroacetic acid mediated solvent-free synthesis of bis(indolyl)methanes utilizing grinding technique, Vivekanand B. Jadhav, **Sunil U. Tekale** and Rajendra P. Pawar, *Journal of Chemistry and Chemical Sciences*, **2012**, *2(3)*, 128-137.
68. A facile and efficient synthesis of N-aryl imides using trifluoroacetic acid, Sunita B. Shinde, **Sunil U. Tekale**, Sushma S. Kauthale, Satish U. Deshmukh, Rajendra P. Marathe, Rajesh B. Nawale, Vinayak S. Sonekar Vinod V. Thorat and Rajendra P. Pawar, *International Journal of Industrial Chemistry*, **2011**, *2(2)*, 112-116,

• **List of Book Chapters published:**

1. Natural Coumarin Motifs: Anticancer Agents. "Natural Heterocycles: Extraction and Biological Evaluation, 2015, (ISBN No.978-1-4-63463-462-5). S.U. Tekale, S.S. Kauthale, R.D. Ingle, S.B. Ubale, Satish Deshmukh, K.L. Ameta, Rajendra Pawar, Nova Publishers, New York.
2. Silica Sulfuric acid: A simple and powerful Heterogeneous catalyst in Organic Synthesis Sushma S. Kauthale, Sunil U. Tekale, Ambadas B. Rode, Sandeep V. Shinde, K. L. Ameta, and Rajendra P. Pawar *Heterogeneous Catalysis: A Versatile Tool for the Synthesis of Bioactive Heterocycles* 2014, CRC Press, London, Chap-5.
3. Nano ZnO: An efficient Heterogeneous catalyst for the synthesis of Heterocyclic compounds Sunil U. Tekale, Ambadas B. Rode, K. L. Ameta, and Rajendra P. Pawar *Heterogeneous Catalysis: A Versatile Tool for the Synthesis of Bioactive Heterocycles* CRC Press, London, Chap-9.
4. Bioactivity and synthesis of pyrazoline motifs. **Sunil U. Tekale**, Vivekanand B. Jadhav, Rupali L. Magar, Chabubai S. Patil, Rajita D. Ingle, Saroj R. Bembalkar and Yeshwant B. Vibhute Nova Science Publishers, U. S. A. 2012, Chapter 12.
5. Bioactive Purines: Fused ring heterocycles. Ambadas B. Rode, Sunil U. Tekale, Sushma S. Kauthale, Namrata D. Erande, Vinod V. Thorat, Vinod K. Ahirrao and Rajendra P. Pawar Nova Science Publishers, U. S. A., 2012, Chapter 09.

6. Biological role of chalcones in medicinal chemistry. Sunil Tekale, Samson Mashele, Ofentse Pooe, Shivaji Thore, Pravin Kendrekar, Rajandra Pawar in the book "Vector-Borne Diseases-Recent Developments in Epidemiology and Control" 2020.