

Research publications

1. **S. M. Basavarajaiah**, P. Raviraj, Y. G. Nagesh, A comprehensive review on the biological interest of quinoline and its derivatives. *Bioorganic and Medicinal Chemistry*, 32 (2021) 115973.
<https://doi.org/10.1016/j.bmc.2020.115973>
Impact Factor - 3.641; Citations - 49
2. N. J. Basha, **S. M. Basavarajaiah**, K. Shyamsunder, Therapeutic potential of pyrrole and pyrrolidine analogs: an update. *Molecular Diversity* (2022). <https://doi.org/10.1007/s11030-022-10387-8>
3. Y. G. Nagesh, **S. M. Basavarajaiah**, G. B. Vibhutimath, V. D. Biradar, M. R. Karekal, M. D. Udayagiri, M. B. H. Mathada, Indole core-based Copper(II), Cobalt(II), Nickel(II) and Zinc(II) complexes: Synthesis, spectral and biological study. *Journal of Molecular Structure* 1248 (2022) 131410.
<https://doi.org/10.1016/j.molstruc.2021.131410>
Impact Factor –3.196 ; Citations – 2
4. R. Nalini, **S. M. Basavarajaiah**, N. G. Yernale, R. Ramakrishna Reddy, Synthesis, Characterization and Biological Activity of ONO Donor Schiff Base and its Metal Complexes. *Asian Journal of Chemistry* 34 (2022) 389-394.
Impact Factor –0.69 ; Citations –0
5. **S. M. Basavarajaiah**, N. G Yernale, M. Javeed, Design, Spectroscopic Studies, DFT Calculations and Evaluation of Biological Activity of Novel 1,3-Benzoxazines Encompassing Isoniazid. *Polycyclic Aromatic Compounds*. Accepted 2021.
<https://doi.org/10.1080/10406638.2021.2019062>
Impact Factor –3.76 ; Citations –0
6. **S. M. Basavarajaiah**, Y. G. Nagesh, J. N. Basha, J. Badiger, An insight into the advanced synthetic recipes to access ubiquitous indoleheterocycles. *Tetrahedron Letters* 85 (2021) 153458.
<https://doi.org/10.1016/j.tetlet.2021.153458>
Impact Factor –2.415 ; Citations – 4
7. R. Nalini, **S. M. Basavarajaiah**, R. Ramakrishna Reddy, G. Y. Nagesh, Design, synthesis and biological evaluation of novel isoniazid hybrids. *Journal of the Indian Chemical Society* 99 (2022) 100273.

<https://doi.org/10.1016/j.jics.2021.100273>

Impact Factor –0.284 ; Citations – 3

8. **S. M. Basavarajaiah**, Y. G. Nagesh, J. N. Basha, Updates on the versatile quinoline heterocycles as anticancer agents. *Physical Sciences Reviews*, Accepted 2021.

<https://doi.org/10.1515/psr-2021-0040>

Impact Factor –1.52; Citations – 3

9. N. J. Basha, **S. M. Basavarajaiah**, B. Swathi, N. P. Kumar, , A comprehensive insight on the biological potential of embelin and its derivatives. *Natural Product Research*, 2021.

<https://doi.org/10.1080/14786419.2021.1955361>

Impact Factor –2.98; Citations – 3

10. **S. M. Basavarajaiah**, Y. G. Nagesh, The contemporary synthetic recipes to access versatile quinoline heterocycles. *51 (2021) 1133-1159*.

<https://doi.org/10.1080/00397911.2021.1876240>

Impact Factor –; Citations – 0

11. **S. M. Basavarajaiah**, B. H. M. Mruthyunjayaswamy, Pharmacological Activities of Some 5-Substituted-3-phenyl-N β -(substituted 2-oxo-2H-pyrano [2, 3-b] quinoline-3-carbonyl)-1H-indole-2-carboxyhydrazides. *Der Pharmacia Sinica* 12 (2021) 1-6.

Impact Factor –0.96 ; Citations – 2

12. **S. M. Basavarajaiah**, B. H. M. Mruthyunjayaswamy, Pharmacological activities of 6-substituted-3-(5-chloro-3-phenyl-1H-indole-2-yl)-3, 4-dihydro-4-substituted-4-substituted-phenacyl-2H-1, 3-benzoxazin-2-ones. *International Journal of Science and Research* 9 (2020) 518-521.

Impact Factor –0.196 ; Citations –2

13. B. H. M. Mruthyunjayaswamy, **S. M. Basavarajaiah**, Pharmacological activities of 5-substituted-N- (substituted-2H-[1, 3]oxazino[6, 5-b]quinolin-3(4H)-yl)- 3-phenyl-1H-indole-2-Carboxamides. *International Journal of Creative Research Thoughts* 8 (2021) 232-247.

Impact Factor –6.196 ; Citations – 3

14. B. Lokesh **S. S. M. Basavarajaiah**, K. N. Sheshandrakumara, N. R. Sudharshan, Design, synthesis and evaluation of antimicrobial activity of some novel 3- (4-substituted phenyl)-

2-(2-substituted1H-indol-3-yl)-3, 4-dihydroimidazo [4, 5-B] indoles. International Journal of Creative Research Thoughts 6 (2018) 1156-1161.

Impact Factor –6.196 ; Citations – 3

15. B. H. M. Mruthyunjayaswamy, **S. M. Basavarajaiah**, Synthesis and antimicrobial activity of some 5-chloro-3-phenyl-1H-indole-2-carbonyl azide derivatives. Indian Journal of Chemistry 57 (2018) 390-399.

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16. K. N. Sheshandrakumar, J.Srividya, B. J.Narayanaswamy, K.Umesha, **S. M. Basavarajaiah**, Synthesis and evaluation of biological activity of some new 3, 7-substituted 2H-pyrano/thiopyrano [2, 3-b] quinolin-2-ones. Indian Journal of Heterocyclic Chemistry 27 (2017) 281-287.

Impact Factor –6.196 ; Citations – 3

17. S. Girish Kumar, **R. Kavitha**, Lantahnide ion doped ZnO based photocatalysts, Separation and Purification Technology, 274 (2021) 118853.

<https://doi.org/10.1016/j.seppur.2021.118853>

18. S. Girish Kumar, **R. Kavitha** and P. M. Nithya, Tailoring the CdS surface structure for photocatalytic applications, Journal of Environmental Chemical Engineering 8 (2020) 104313.

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19. **R. Kavitha**, P. M. Nithya, andS. Girish Kumar, Noble metal deposited graphitic carbon nitride based heterojunctionphotocatalysts, Applied Surface Science 508 (2020) 145142.

<https://doi.org/10.1016/j.apsusc.2019.145142>

Impact Factor – 6.707; Citations – 50

20. **R. Kavitha** andS. Girish Kumar, Review on bimetallic deposited TiO₂: Preparation methods, charge carrier transfer pathways and photocatalytic applications. Chemical Papers 74 (2020) 717-756.

<https://link.springer.com/article/10.1007/s11696-019-00995-4>

Impact Factor –2.097; Citations – 18

21. **R. Kavitha** andS. Girish Kumar, A review on plasmonic Au-ZnOheterojunctionphotocatalysts: Preparation, modifications and related charge carrier dynamics, Materials Science in Semiconductor Processing 93 (2019) 59-91.

<https://www.sciencedirect.com/science/article/pii/S1369800118312666>

Book chapters

1. **S. M. Basavarajaiah, Book:** Bio-Potential Heterocycles, Lambert Academic Publishers, 2021.
2. **S. M. Basavarajaiah, G. Y. Nagesh, Book:** Advanced Practical Organic Chemistry, Lambert Academic Publishers, 2021.
3. **S. M. Basavarajaiah, G. Y. Nagesh, K. R. Reddy, Book:** Compendious Practical Organic Chemistry. Notion Press Media Pvt. Ltd.
4. **R. Kavitha, S. Girish Kumar, C. Sushma, Book:** Photocatalytic functional materials for environmental remediation; Chapter 6: Plasmonic Ag-ZnO: Charge carrier mechanisms and photocatalytic, WILEY publishers. 2019, Pages 191-214.
<https://doi.org/10.1002/9781119529941.ch6>
5. S. Girish Kumar, **R. Kavitha, C. Sushma** : Book: Surface Science of Photocatalysis; Chapter 9: Doped zinc oxide nanomaterials: Structure-electronic properties and photocatalytic applications. ELSEVIER Publisher 31 (2020) 285-312.
<https://doi.org/10.1016/B978-0-08-102890-2.00009-9>
6. **R. Kavitha, S. Girish Kumar, Book:** Nanoscale Graphitic Carbon Nitride; Chapter 5: Polymeric graphitic-carbon nitride and its composites for the photocatalytic removal of phenolic compounds. ELSEVIER Publisher. 2021, Pages 141-168.
<https://www.elsevier.com/books/nanoscale-graphitic-carbon-nitride/pandikumar/978-0-12-823034-3?fbclid=IwAR3MEpQleZTIMllhBwcGN5JhvODOD-ZN0GrLdfcxEsGKcgd8qHSWOcziVPU>

PATENTS:

- ❖ **Basavarajaiah S. M. et al.,** Preparation of 3, 3'-Di(1-adamantyl)-4, 4'-dimethoxy-1, 1'-biphenyl, **Indian Patent-** Submitted (2020) (**Application No. 20204100362286 A**).
- ❖ **Basavarajaiah S. M. et al.,** Recent advances in immunotherapy for changing the therapeutic landscape of acute myeloid leukemia, **Indian Patent-** Submitted (2021) (**Application No. 202141056262**).