

Dr. Gangotri Pemawat

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Department of Chemistry
University College of Science
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Education

- ❖ **PhD- Synthetic Organic Chemistry** (2011)
Mohanlal Sukhadia University, Udaipur
- ❖ **Master of Science- Organic Chemistry** (2007)
Mohanlal Sukhadia University, Udaipur
- ❖ **Bachelor of Science- Chemistry, Botany, Zoology** (2005)
Mohanlal Sukhadia University, Udaipur
- ❖ **Senior Secondary- Science Biology** (2002)
Rajasthan Board of Secondary Education, Rajasthan

Experience

- ❖ **Assistant Professor:** From 2018
- ❖ **Teaching:** 12 years experience to teach undergraduate and postgraduate courses.
- ❖ **Research:** 4 years

Projects

- ❖ **MHRD-RUSA Grant:** Novel Natural Products from Traditional Medicinal Plants of South Rajasthan Region: Structural, Synthetic, and Biological Studies, **2020**, 4.5 crore.
- ❖ **UGC Start-Up Grant:** New Approach to the Synthesis of Heterocyclic Compounds and their Bio-evaluation, **2019**, 8 Lakh.

Articles

- ❖ Functionalized Pyrimidines: Synthetic Approaches and Biological Activities. A Review.
Ayushi Bhatnagar and **Dr. Gangotri Pemawat**, *Organic Preparations and Procedures International*, **2023**, 55(5). (<https://doi.org/10.1080/00304948.2023.2225385>)

- ❖ An overview on Synthetic Routes of Anti-inflammatory Active Scaffolds including Thiazole and Thiazolidine Cores.
Ayushi Bhatnagar and **Dr. Gangotri Pemawat**, *Phosphorus, Sulfur, and Silicon and the Related Elements*, **2023**, 198(7). (<https://doi.org/10.1080/10426507.2023.2189253>)

- ❖ Recent Developments in Nucleophilic Fluorination with Potassium Fluoride (KF): A Review
Manisha Khandelwal, **Dr. Gangotri Pemawat**, Dr. Rama Kanwar Khangarot, *Asian Journal of Organic Chemistry*, **2022**, 11(9). (<https://doi.org/10.1002/ajoc.202200499>)

- ❖ Recent Developments of Antipsychotic Drugs with Phenothiazine Hybrids: A Review
Ayushi Bhatnagar and **Dr. Gangotri Pemawat**, *Chemistry & Biology Interface*, **2022**, 12(4), 77-87.

- ❖ Synthesis of Ethoxyphthalimido Derivatized Thiazolodihydropyridines Assembled with Pyrazole and Isoxazole Systems from Common Intermediate Chalcone and Evaluation of their Antibacterial Activity.
Gangotri Pemawat and Ganpat L Talesara, *Indian Journal of Chemistry*, **2011**, 50B, 1173-1180.

- ❖ Design, Facile Synthesis and Biological Evaluation Quinazoline Containing Pyrazolo-Thiazolyl, Triazinone and their Ethoxyphthalimide Derivatives.
Rajaram Dangi, Nassir Huissan, **Gangotri Pemawat** and Ganpat L Talesara, *Indian Journal of Chemistry*, **2011**, 50B.

- ❖ Synthesis and Antimicrobial Evaluation of 3-{{7-(2,4-Dichlorophenyl)-5-(4-methoxyphenyl)pyrido[2,3-d]pyrimidin-4-yl}}-1-N-ethoxyphthalimido-2-substituted Imidazolidin - 4-one Derivatives.
Gangotri Pemawat and Ganpat L Talesara, *Iranian Journal of Organic Chemistry*, **2010**, 2(2), 350-357.

- ❖ Synthesis and Antibacterial Activity of 2-{{3-Phenyl-7-substituted-2-(phenylimino)2,3-dihydro[1,3]thiazolo[4,5-d]pyrimidin-5-yl}imino}-3-ethoxyphthalimido-1,3-thiazolodin-4-one.

Gangotri Pemawat, Rajaram Dangi and Ganpat L Talesara, *Journal of Indian Chemical Society*, **2010**, 87, 1351-1358.

- ❖ Synthesis of some Alkoxyphthalimide Substituted Spiro[indole-3,2-[1,3]thiazolidin]-3-yl)-2-(quinolin-8-yloxy)acetamides.

Gangotri Pemawat, Rajaram Dangi, Monika Kumawat and Ganpat L Talesara, *Indian Journal of Heterocyclic Chemistry*, **2010**, 20, 37-40.

- ❖ Synthesis and Antimicrobial Evaluation of Ethoxyphthalimide Derivatized Spiro[indole-3,5-(1,3)thiazolo(4,5-c)isoxazol]-2-(1H)ones via Ring Closure Metathesis.

Bhawana Thadhaney, Devendra K Sain, **Gangotri Pemawat** and Ganpat L Talesara, *Indian Journal of Chemistry*, **2010**, 49B, 368.

- ❖ A Convenient Synthesis of Ethoxyphthalimide Derivatized Quinazoline Assembled Isoxazole and Pyrazoles via Common Intermediate Chalcone.

Rajaram Dangi, Nassir Huissan, **Gangotri Pemawat** and Ganpat L Talesara, *Research Journal of Chemistry and Environment*, **2010**, 14(3), 27.

- ❖ Synthesis and Antimicrobial Evaluation of some Alkoxyphthalimide Derivatives of Naphthyridines.

Dinesh Bhambi, Vijay Kumar Salvi, Archita Bapna, **Gangotri Pemawat** and Ganpat L Talesara, *Indian Journal of Chemistry*, **2009**, 48B, 697.

- ❖ Synthesis, Characterization and Antimicrobial Activity of Substituted of 3-(phthalazine-1-ylamino)alkanoic acid containing Imidoxy Moiety.

Vijay Kumar Salvi, **Gangotri Pemawat**, Archita Bapna, Ganpat L Talesara, *Journal of Indian Chemical Society*, **2009**, 86, 491.

- ❖ Synthesis of some Novel Ethoxyphthalimide Derivatives of Pyrazolo[3,4-c]pyrazoles.

Chirag Sharma, Bhawana Thadhaney, **Gangotri Pemawat** and Ganpat L Talesara, *Indian Journal of Chemistry*, **2008**, 547B, 1852.

Book Chapters

- ❖ Dr. Rama Kanwar Khangarot, Ayushi Bhatnagar, and **Dr. Gangotri Pemawat**, Chapter-10: Polymer Blend Nanocomposites of Fullerene for Energy Storage, "*Polymer Blend Nanocomposites for Energy Storage Applications*", Elsevier, **2023**, 293-310. (ISBN: 978-0-323-99549-8, <https://doi.org/10.1016/B978-0-323-99549-8.00003-0>)

- ❖ Manisha Khandelwal, Dr. Rama Kanwar Khangarot, **Dr. Gangotri Pemawat**, Chapter-2: Applications of Copper-based Polymer Nanocomposites for the Removal of Organic Dyes from Wastewater, “*Green Technology for the Sustainable Development*”, Blue Rose Publishers, **2023**, 18-32. (ISBN 978-93-5741-534-7).
- ❖ Ayushi Bhatnagar, Dr. Rama Kanwar Khangarot, **Dr. Gangotri Pemawat**, Chapter-4: Administration of Polymeric Materials for Environmental Remediation, “*Green Technology for the Sustainable Development*”, Blue Rose Publishers, **2023**, 38-50. (ISBN 978-93-5741-534-7)
- ❖ Ayushi Bhatnagar, Dr. Rama Kanwar Khangarot, Dr. Kiran Meena, **Dr. Gangotri Pemawat**, Chapter-6: Potential Applications of Nanomaterials in Wastewater Treatment, “*Green Technology for the Sustainable Development*”, Blue Rose Publishers, **2023**, 68-84. (ISBN 978-93-5741-534-7)
- ❖ Dr. Kiran Meena, Dr. Rama Kanwar Khangarot, **Dr. Gangotri Pemawat**, Chapter-8: Sustainable and Eco-friendly Treatment of Wastewater by Natural Biodegradable Materials, “*Green Technology for the Sustainable Development*”, Blue Rose Publishers, **2023**, 94-110. (ISBN 978-93-5741-534-7)
- ❖ Manisha Khandelwal, Deeksha Sharma, Rama Kanwar Khangarot, **Gangotri Pemawat**, Chapter-3: Mechanistic Insights into Photodegradation of Organic Dyes using Copper Oxide Nanocatalyst, “*Current and Future Perspectives of Environmental Pollution and its Remediation*”, Thanuj International Publishers, **2022**, 36-49. (ISBN 978-93-94638-19-8)
- ❖ Ayushi Bhatnagar, Rama Kanwar Khangarot, **Gangotri Pemawat**, Chapter-9: Photodegradation of Phenol using Physiochemical and Biological Methods, “*Current and Future Perspectives of Environmental Pollution and its Remediation*”, Thanuj International Publishers, **2022**, 102-117. (ISBN 978-93-94638-19-8)
- ❖ **Gangotri Pemawat**, Bharat Raj Singh Rathore, Ritu Tomar and Narendra Pal Singh Chauhan, Chapter-8 Antimicrobial Activities of Plastics and Elastomers, “*Biocidal Polymers*”, Smithers Rapra Technology, England, **2016**, 179-207. (ISBN: 978-1910242261)