Dr. Helen P. Kavitha

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Dr. Helen P. Kavitha is the Professor and Head of the Department of Chemistry, SRM Institute of Science and Technology, Ramapuram Campus, Chennai, India. She has more than two decades of teaching and research experience. She has presented about 100 papers in various National and International Conferences and published 50 papers in referred Journals. She is the Editorial board member and reviewer for several Journals. She has authored five books in Chemistry. She is the life member in various professional bodies .She has guided six Ph. D students. Her area of research are synthesis of novel heterocyclic compounds with potent biological activities, synthesis of nano materials for pollution remediation using novel catalysts, Environmental chemistry and Computational chemistry.

Research Interests: Organic Synthesis, Medicinal Chemistry, Crystal Growth, Molecular Docking, Nano synthesis

Selected Publications

- Green synthesis of magnesium oxide nanoparticles and its applications: A review, S Abinaya,, HP Kavitha, M Prakash, A Muthukrishnaraj, Sustainable Chemistry and Pharmacy 19, 100368
- Green synthesis of bismuth based nanoparticles and its applications-A review, M Prakash, HP Kavitha, S Abinaya, JP Vennila, D Lohita, Sustainable Chemistry and Pharmacy 25, 100547
- Sunlight-assisted degradation of textile pollutants and phytotoxicity evaluation using mesoporous ZnO/gC 3 N 4 catalyst, H Leelavathi, N Abirami, R Muralidharan, HP Kavitha, S Tamizharasan, ..., RSC advances 11 (43), 26800-26812
- Sathishkumar, S and Helen P. Kavitha* Synthesis, characterization and antiinflammatory evaluation of novel substituted tetrazolodiazepine derivatives, Indian Journal of Chemistry, 56B, 732-739, 2017.
- A. Santhoshkumar, Helen P. Kavitha* and R. Suresh, Preparation, Characterization and Antibacterial Activity of NiO Nanoparticles, Asian J. Chem. 29(2), pp 239-241, 2017.

- A. Santhoshkumar, Helen P. Kavitha*, R. Suresh, Hydrothermal Synthesis, Characterization and Antibacterial Activity of NiO Nanoparticles, Journal of Advanced Chemical Sciences, 2(2), 230-232, 2016.
- R. Kavipriya, Helen P. Kavitha, B. Karthikeyan, and A. Nataraj," Molecular structure, spectroscopic (FT-IR, FT-Raman), NBO analysis of N,N0-diphenyl-6-piperidin-1-yl-[1,3,5]-triazine-2,4-diamine, Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy 150 (2015) 476–487.
- S. Sathishkumar, Helen P. Kavitha and S. Arulmurugan, In-silico anti-inflammatory evaluation of some novel tetrazolo and triazolodiazepine derivatives against COX-2 protien, International Journal of Advanced Chemical Science and Applications, 3(1), 2015
- S. Arulmurugan and Helen P Kavitha, S. Sathishkumar and R. Arulmozhi. Review on biologically active benzimidazole, Miniriveviews in organic chemistry, 12(1), 178-195, 2015.
- S. Sathishkumar and Helen P. Kavitha, Synthesis, Characterization and Antiinflammatory Activity of Novel Triazolodiazepine Derivatives, IOSR Journal of Applied Chemistry, 8(1),47-52, 2015.
- A. Silambarasan, Helen P. Kavitha, S. Ponnusamy, M. Navaneethan, Y. Hayakawa, Investigation of photocatalytic behavior of l-aspartic acid stabilized Zn(1-x)MnxS solid solutions on methylene blue Applied Catalysis A: General, 476, 22,1-8, 2014.
- S. Sathish Kumar and Helen P. Kavitha, Synthesis and Biological Applications of Triazole Derivatives-A Review Mini-Review in Organic Chemistry, 10(1), 2013.
- Helen P. Kavitha and S. Arulmurugan Synthesis, characterization and cytotoxic activity of benzoxazole, benzimidazole, imidazole and tetrazole Acta pharmaceutica 63(2), 253-264, 2013

Achievements and Awards

- Received Award and cash prize for Research from SRM Institute of Science and Technology from the year 2006-2016.
- Memberships
- Life member and Secretary for South Zone in the Association of Chemistry Teachers (ACT, Mumbai).
- Life member and Executive member in Society for Advancement of Chemical Science Education (SACSE)
- Fellow of International Congress of Chemistry & Chem
- Life Member of Indian Society for Technical Education (MISTE)
- Member of Indian Society of Chemists and Biologists (MISCB)
- Life member in Indian Science Congress