



Sri SAI RAM INSTITUTE OF TECHNOLOGY

An ISO 9001 : 2008 Certified Institution

Sai Leo Nagar, West Tambaram, Chennai - 44. www.sairamit.edu.in

DEPARTMENT OF SCIENCE AND HUMANITIES

Name : DR. D. PAUL

Designation : ASSOCIATE PROFESSOR

Email : paul.maths@sairamit.edu.in

Qualification : M.Sc., M.Phil., Ph.D

Specialization : MATHEMATICS

Research Interest : GRAPH THEORY, COMPUTATIONAL CHEMISTRY

Experience in years : Teaching UG PG Industry

No. of Workshop/Conferences/
FDP attended : Workshop Conferences FDP

No. of Workshop/Conferences/
FDP Organized : Workshop Conferences FDP



Professional Membership	
Publications	National: NIL
	International: 16
	Book: NIL
Research Funded Projects	
Patents	
Achievements	<ul style="list-style-type: none"> ● Gold Medalist In B.Sc Mathematics ● State Level Chess Player ● Reviewer for various Science-citation Indexed Journals ● Anna University recognized supervisor for guiding Ph.D& M.S(By Research)

List of Publications:

1. **Paul D** and I. Rajasingh. "Acyclic Edge-coloring of Sierpinski-like graphs" *International Journal of Pure and Applied Mathematics*, Volume 87, No. 6, pp. 855-862, 2013. [SCOPUS]
2. I. Rajasingh, R. S. Rajan and **Paul D**. "A New Approach to Compute Acyclic Chromatic Index of Certain Chemical Structures" *Iranian Journal of Mathematical Chemistry*, Volume 6, No. 1, pp. 45-55, 2015. **Thomson Reuters [Impact Factor: 0.044]**
3. **Paul D**, I. Rajasingh and R. S. Rajan and. "Acyclic Edge-coloring of k-dimensional Regular Tessellations" *International Journal of Networking and Virtual Organisations*, Volume 10, No.34, pp. 27212-27219, 2015. [SCOPUS]
4. **Paul D**, I. Rajasingh and R. S. Rajan "Tree Derived Architectures with Decycling Number equal to Cycle Packing Number", *Procedia Computer Science*, Volume 57, 716-826, 2015. **Elsevier**.
5. I. Rajasingh, R. S. Rajan and **Paul D**. "Acyclic Edge-coloring of Hypertree and Shuffle hypertree" *International Journal of Pure and Applied Mathematics*, Volume 101 No. 5, 623-629, 2015. [SCOPUS]
6. **Paul D**, "Wavelength Assignment Problem in Optical Grid Network" *International Journal of Pure and Applied Mathematics*, Volume 109 No. 9, 108-115, 2016. [SCOPUS]
7. **Paul D**, G Vidya and I Rajasingh, "Strong Chromatic Index of Circumscribed Peri-condensed Benzenoid Graphs" *TagaJournal of Graphic Technology*, Volume 14, 2274-2282, 2018.
8. **Paul D**, G Vidya and I Rajasingh, "Strong Rainbow Coloring of Ladder-Like Networks" *TagaJournal of Graphic Technology*, Volume 14, 2283-2289, 2018.
9. M Arockiaraj, J Clement, **Paul D** and K Balasubramanian, "Quantitative structural descriptors of sodalite materials" *Journal of Molecular Structure*, Volume 122, 128766, 2020. **ELSEVIER [Impact Factor: 3.841]**
10. M Arockiaraj, J Clement, **Paul D** and K Balasubramanian, "Relativistic distance-based topological descriptors of Linde type A zeolites and their doped structures with very heavy elements" *Molecular Physics*, 2020. DOI: 10.1080/00268976.2020.1798529. **TAYLOR & FRANCIS [Impact Factor: 1.937]**
11. M Arockiaraj, **Paul D**, S. Klavžar, J Clement, S. Tigga and K Balasubramanian, "Relativistic distance based and bond additive topological descriptors of zeolite RHO materials" *Journal of Molecular Structure*, Volume 1250, 131798, 2021. **ELSEVIER [Impact Factor: 3.841]**
12. M Arockiaraj, **Paul D**, Sandi Klavžar, J Clement, Sushil Tigga and K Balasubramanian, "Relativistic distance based and bond additive topological descriptors of zeolite SAS materials and their doped structures with very heavy element" *Journal of Molecular Structure*, Volume 1250, 131798, 2021. **ELSEVIER [Impact Factor: 3.841]**
13. **Paul D**, M Arockiaraj, Sushil Tigga and K Balasubramanian, "Zeolite AST: Relativistic degree and distance based topological descriptors" *Computational and Theoretical Chemistry*, Volume 1218, 113933, 2022. **ELSEVIER [Impact Factor: 1.926]**
14. K Jacob, J Clement, M Arockiaraj, **Paul D** and K Balasubramanian, "Topological characterization and entropy measures of tetragonal zeolite merlinoites" *Journal of Molecular Structure*, Volume 1277, 134786, 2023. **ELSEVIER [Impact Factor: 3.841]**
15. **Paul D**, M Arockiaraj, K Jacob and J Clement, "Multiplicative versus scalar multiplicative degree based descriptors in QSAR/QSPR studies and their comparative analysis in entropy measures" *The European Physical Journal Plus*, Volume 138, 323, 2023. **SPRINGER [Impact Factor: 3.4]**
16. M Arockiaraj, **Paul D**, M. U. Ghani, S. Tigga and Y. M. Chu, "Entropy structural characterization of zeolites BCT and DFT with bond-wise scaled comparison". *Scientific Reports*, 13, 10874 (2023).
17. J.B. Liu, M. Arockiaraj, **Paul D**, J. Clement, X. Zhao and S. Tigga, "Degree Descriptors and Graph Entropy Quantities of Zeolite ACO". *Current Organic Synthesis*, DOI: [10.2174/1570179421666230825151331](https://doi.org/10.2174/1570179421666230825151331). **[Impact Factor: 2.276]**