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**Designation** : Assistant Professor

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

**Experience** : 2 Years

**Area of Specialization** : Graph Theory

**Subject Handled in UG** : 1. Mathematics-I, II  
2. Transforms & Partial Differential Equations

**Subject Handled in PG** : 1. Applied Statistical Techniques

**Journal Published** : International: 24 National: -

1. "Computational Analysis of Some More Rectangular Tessellations of Kekulenes and Their Molecular Characterizations" *Molecules*, Vol.28(18), pp 6625 (2023), SCI.
2. "Redefining fractal cubic networks and determining their metric dimension and fault-tolerant metric dimension", *Applied Mathematics and Computation*, Vol. 452, 128037 (2023), SCI.
3. "On Counting Polynomials of Supercurrents and Triangle-Shaped Discotic Graphene" *Polycyclic Aromatic Compounds*, 2023
4. "On counting polynomials of certain classes of polycyclic aromatic hydrocarbons" *Polycyclic Aromatic Compounds* [this link is disabled](#), 2023, 43(5), pp. 4768-4786
5. "Resolving-power domination number of probabilistic neural networks", *Journal of Intelligent and Fuzzy Systems*, Vol. 43(5), pp 6253-6263 (2022), SCI.
6. "Twin vertices in fault-tolerant metric sets and fault-tolerant metric dimension of multistage interconnection networks", *Applied Mathematics and Computation*, Vol. 420, pp 126897 (2022), SCI.

7. **“On Certain Topological Indices of Three-Layered Single-Walled Titania Nanosheets”, *Combinatorial Chemistry and High Throughput Screening*, Vol. 25(3), pp 483–495 (2022), SCI.**
8. **“Molecular structural characterization of superphenalene and supertriphenylene”, *International Journal of Quantum Chemistry*, Vol. 122(2), pp e26818 (2022), SCI.**
9. **“On counting polynomials of certain classes of polycyclic aromatic hydrocarbons”, *Polycyclic Aromatic Compounds*, (2022) DOI: 10.1080/10406638.2022.2094969, SCI.**
10. **“Molecular Structural Characterization of Supercorenene and Triangle-Shaped Discotic Graphene”, *Polycyclic Aromatic Compounds*, (2022) DOI: 10.1080/10406638.2022.2039224, SCI.**
11. **“Molecular Structural Characterization of Cycloparaphenylene and its Variants”, *Polycyclic Aromatic Compounds*, Vol. 42(8), pp. 5550–5566, (2022), SCI.**
12. **“On detour index of cycloparaphenylene and polyphenylene molecular structures”, *Scientific Reports*, Vol. 11(1), pp. 15264, (2021), SCI.**
13. **“Topological characterization of hexagonal and rectangular tessellations of kekulenes as traps for toxic heavy metal ions”, *Theoretical Chemistry Accounts*, Vol. 140(4), pp. 43, (2021), SCI.**
14. **“Distance based and bond additive topological indices of certain repurposed antiviral drug compounds tested for treating COVID-19”, *International Journal of Quantum Chemistry*, Vol. 121(10), pp. e26617, (2021), SCI.**
15. **“On Wiener polarity indices Sierpinski and Silicae frameworks”, *Mathematical Problems in Engineering*, Vol. 2021, (2021) 6686352.**

16. "Second Zagreb and Sigma indices of semi and total transformations of graphs", *Complexity*, Vol. 2020, pp. 6828424, (2021), SCI.
17. "Molecular topological characterization of three classes of polycyclic aromatic hydrocarbons", *Journal of Molecular Structure*, Elsevier, Vol. 1229, (2021) 129501, SCI.
18. "On the Zagreb and Wiener polarity indices of C-3 free chemical nanostructures", *Utilitas Mathematica*, Vol. 115, (2020) 199-218, SCI.
19. "On certain distance and degree based topological indices of Zeolite LTA frameworks", *Material Research Express* Vol. 7, (2020) 055006, SCI.
20. "On Detour Index of Join of Hamilton-connected Graphs", *ARS Combinatoric*, In Press 2020, SCI.
21. "On independent resolving number of  $TiO_2 [m,n]$  ", *Journal of Intelligent and Fuzzy systems*, Vol. 35(6), (2018) 6421-6425, SCI.
22. "On the edge version of Titanium dioxide nanosheet and nanotube", *Nanoscience & Nanotechnology Asia*, DOI : 10.2174/2210681210999200423120222, Scopus.
23. "On Certain Counting Polynomial of Titanium Dioxide Nanotubes", *Nanoscience & Nanotechnology-Asia*, Vol. 9(2) (2019) 240-243, Scopus.
24. "On certain topological indices of Titanium dioxide nanosheet and nanotube", *Nanoscience and Nanotechnology*, Vol. 8(2) (2018) 309-316, Scopus.

Paper Presented in : International:3 National:-  
Conferences

1. "On generalized Wiener polarity index of vertex transitive graphs" at International Conference on Mathematical Computer Engineering

**(ICMCE2018), Organized by School of Advanced Sciences, VIT CHENNAI during 23-24 November 2018.**

- 2. "Wiener polarity index of silicate related networks" at International Conference on Computing Sciences (ICCS2018), Organized by LIMCOS, Loyola college during 16-17 November 2018.**
- 3. "Independent Resolving Number of Pyrene" at International Conference on Mathematical Computer Engineering (ICMCE2015), Organized by School of Advanced Sciences, VIT CHENNAI during 14-15 December 2015.**