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| List of Publications             | : | Attached                 |
| Project Details                  | : | Nil                      |

## LIST OF PUBLICATIONS

1. Premila Rachelin, Y, Lakshmi P. Nair & James, C, 2012, 'Electronic Structure investigations and spectroscopic studies on the herbicidal molecule 4- Nitrophenyl-phenylether', Journal of Molecular Structure, vol.1036, pp. 56-62,ISSN: 0022-2860. IF-1.78., UGC SERIAL NUMBER. 24702.
2. Premila Rachelin, Y, Sayantan Pradhan, S & James, C, 2018, 'Quantum chemical insight into Molecular structure, DFT calculations Vibrational dynamics, Natural population analysis, Hirshfeld analysis and Molecular docking approach on Chalcone 1- 4-Bromophenyl -3-(2-methoxyphenyl) prop-2-en-1-one', Journal of Spectroscopy Letters, vol. 51, no.3, pp.144-154,ISSN :0038-7010. IF-0.852., UGC SERIAL NUMBER. 33581.

3. Premila Rachelin, Y & James, C, 2018, 'Computational approach, Spectroscopic investigation and QTAIM analysis of (2E)-3-(3, 4-Dimethoxyphenyl)-1-(4-hydroxyphenyl) prop-2-en-1-one', Journal of Applied Sciences and Computations, vol. 5, no. 7, pp. 261-271, ISSN: 0076-5131. UGC SERIAL NUMBER. 41238.
4. Premila Rachelin, Y & James, C, 2018, 'Molecular structure investigation, Spectroscopic characterization, UV spectral analysis and Optical band gapdetermination of (2E)-3-(3-Bromo-4methoxyphenyl)-1-(pyridin-2-yl) prop- 2-en-1-one a food preservative chalcone', Journal of Atomic, Molecular, Condensate and Nano Physics, vol.5, no. 2, pp.133-147, ISSN: 2349-2716. UGC SERIAL NUMBER. 62765.
5. Anandh S, Dr. R. Vasuki & Dr. Y. Premila Rachelin , 2020, 'An Improved Identification Method Of Abdominal Aortic Aneurysm Using Exudate Segmentation and DNN, International Journal of Advanced Research in Engineering and Technology (IJARET), Volume 11, Issue 4, pp. 44-56, ISSN Print: 0976-6480 and ISSN Online: 0976-6499.
6. Anandh S, Dr. R. Vasuki & Dr. Y. Premila Rachelin , 2020, 'New Efficient KNN Classifier To Detect Abdominal Aortic Aneurysms Using Digital Image Processing, International Journal of Advanced Research in Engineering and Technology (IJARET) Volume 11, Issue 5, pp. 52-64, ISSN Print: 0976-6480 and ISSN Online: 0976-6499 DOI: 10.34218
7. Y. Premila Rachelin and C. Mahadevan (1998) Nucleation studies on supersaturated aqueous solutions of (NH<sub>4</sub>)H<sub>2</sub>PO<sub>4</sub> doped with NH<sub>4</sub>Cl and KCl, Indian J. Pure Appl. Phys. 36, 38 – 42.
8. J.M. Kavitha, K. Seethalakshmi, C. Mahadevan and Y. Premila Rachelin (1999) Nucleation studies in supersaturated aqueous solutions of urea and thiourea doped with inorganic dopants, Bull. Mater. Sci. 22, 821 – 826
9. Anandh S, Dr. R. Vasuki & Dr. Y. Premila Rachelin , 2020, 'PSO Optimization With Probabilistic Discerning Abdominal Aortic Aneurysm Based Neural Network, International Journal of Advanced Research in Engineering and Technology (IJARET), Volume 11, Issue 4, April 2020, pp. 74-87, ISSN Print: 0976-6480 and ISSN Online: 0976-6499.