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2. Synthesis, Structural, Spectroscopic investigation on 3-(2-Hydroxyphenyl)-1-ferrocenylpropan-1-one by Density Functional Theory

(M.Sony Michael Mary , R. Racil Jeya Geetha, M.Amalanathan, A.R.Twinkle, Zoran Ratkovic)

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3. Synthesis, structural, spectroscopic and docking studies on (E)-1-Ferrocenyl-3-phenylpropen-1-one by the density functional theory

(M. Amalanathan, M.SonyMichaelMary, M.LathaBeatrice, S.MaryDelphine, H.MarshanRobert, A. R.Twinkle, ZoranRatkovic and Y.Samson)

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**Department of Biological Sciences, International Islamic University,**

**Islamabad, Pakistan**

1. Catharanthus roseus leaf extract mediated Ag-MgO nanocatalyst for photocatalytic degradation of Congo red dye and their antibacterial activity

(R. Benisha , M. Amalanathan, M. Aravind, M Sony Michel Mary , Awais Ahmad, Sobia Tabassum, Wahidah H. Al-Qahtani , Ikram Ahmad)

Journal of Molecular Structure, Volume 1262, 2022

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<https://doi.org/10.1016/j.molstruc.2022.133005>

**Department of Biotechnology, Kamaraj College of Engineering and**

**Technology, Virudhunagar, Tamilnadu, India**

1. Spectroscopic and topological analysis and in vitro antimicrobial activity of phenothiazine

(M. SonyMichaelMary, R.RacilJeyaGeetha, M.Amalanathan H.MarshanRobert and A. RonaldoAnufe)  
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1. Enhanced Photocatalytic and Biological Observations of Green Synthesized Activated Carbon, Activated Carbon Doped Silver and Activated Carbon/Silver/Titanium Dioxide Nanocomposites

(M. Aravind, M. Amalanathan, M. Sony Michael Mary, C. Parvathiraja, Asma A. Alothman, Saikh M. Wabaidur, Mohammad Ataul Islam)

Journal of Inorganic and Organometallic Polymers and Materials, Volume 33, 2022

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<https://doi.org/10.1007/s10904-021-02096-w>

2. Synthesis of Silver Nanoparticles Using Syzygium malaccense Fruit Extract and Evaluation of Their Catalytic Activity and Antibacterial Properties

(H. Basalius Herbin, M. Aravind, M. Amalanathan, M. Sony Michael Mary, M. Maria Lenin, Parvathiraja, Masoom Raza Siddiqui, Saikh Mohammad Wabaidur, Md Ataul Islam)

Journal of Inorganic and Organometallic Polymers and Materials, Volume 32, 2022

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<https://link.springer.com/article/10.1007/s10904-021-02210-y>

3. Green synthesis of nano-silver using Syzygium samarangense flower extract for multifaceted applications in biomedical and photocatalytic degradation of methylene blue

(Herbin Basalius, Aravind Mani, Amalanathan Michael, Sony Michael Mary, Maria Lenin, Parvathiraja Chelliah, Masoom Raza Siddiqui, Saikh Mohammad Wabaidur, Mohammad Ataul Islam)

[Applied Nanoscience](#) , Volume , Volume 1, 2022

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<https://doi.org/10.1007/s13204-022-02523-5>

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2. Structural and vibrational spectra investigation on the identification of Non-Linear Optical properties and wave function analyses (electrostatic potential, electron localisation function, localised orbital locator) of 3-Ethoxy Salicylaldehyde

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3. Structure Activity Relationship, Topological Analysis and Molecular Docking Analysis of Pharmaceutical Molecule 2356 -Tetrafluoro-4-Pyridine Carbonitrile

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