

CURRICULUM VITAE

BABIOLA ANNES SESURAJ, Ph.D. (Organic Chemistry)

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<https://scholar.google.com/citations?user=P3EXnaIAAAAJ&hl=en>

CAREER OBJECTIVE

To work in a growth oriented and challenging environment where my knowledge and skills can be utilized and increased with mutual benefits.

AREA OF INTEREST

Synthetic organic chemistry and pharmaceutical/biological active molecules

EDUCATION

❖ **Ph.D in Organic Chemistry, SASTRA Deemed University, Tamilnadu** **2017-2022**

Thesis title: Metal-free cascade approaches: Activation of alkene or alkyne for the synthesis of pyrazole/pyrazoline derivatives and their application in organo-catalysis & sensing studies.

Area of Research: Synthesis of pyrazolines *via* cascade reactions, photochemical synthesis of pyrazoles from pyrazolines, organocatalytic property of pyrazolines, pyrazolines in the field of chemo sensing, Eutectic solvent based synthetic organic chemistry.

Domains: Heterocyclic reactions, Photochemical synthesis, Green chemistry

❖ **M.Sc. in Chemistry, St. Joseph's College, Tiruchirappalli, Tamilnadu** **2015-2017**

RESEARCH EXPERIENCE

➤ **Project Junior Research Fellow in DST sponsored Inspired project** **2017-2022**

TECHNICAL SKILLS

- Well known to work in Chem-draw software, Mestrenova, Origin
- Can handle NMR instrument
- Isolation of organic molecules
- Various purification techniques including column chromatography and recrystallization etc.,
- IR, NMR and Mass data interpretation

PUBLICATIONS

Cumulative impact factor-45.244; Citations- 75 (till NOV 2022)

First author publications:

1. **Sesuraj Babiola Annes**, Rajendhiran Saritha, Kuppusamy Chandru, Pavan Kumar Mandali, and Subburethinam Ramesh. "Metal-and Solvent-Free Cascade Reaction for the Synthesis of Amino Pyrazole Thioether Derivatives". *The Journal of Organic Chemistry* **2021**, 86, 16473–16484. **IF-4.198**
2. **Sesuraj Babiola Annes**, Rajendhiran Saritha, Saravanan Subramanian, Bhaskaran Shankar, and Subburethinam Ramesh. "Solvent-free and montmorillonite K10-catalyzed domino reactions for the synthesis of pyrazoles with alkynylester as a dual synthon". *Green Chemistry* **2020**, 22, 2388–2393. **IF-11.034**
3. Siva Bala Subramaniam, **Sesuraj Babiola Annes**, Manokaran Yuvasri, Kolanchinathan Nivedha, Subburethinam Ramesh, and Veerappan Anbazhagan. "1, 3, 5-Triphenylpyrazoline Based Fluorescent Probe for Selective Sensing and Imaging of Glutathione in Live Cell under Oxidative Stress". *ChemistrySelect*, **2020**, 5, 515–521. **IF-2.307**
4. **Sesuraj Babiola Annes**, Kulandaiappan Vigneshwar, Kolanchinathan Nivedha, Seetharaman Manojveer, and Subburethinam Ramesh. "Deep Eutectic Solvent Mediated Alkyne-Carbonyl Metathesis (ACM) Reaction for the Synthesis of 2H-Chromene Derivatives". *ChemistrySelect*, **2019**, 4, 6245-6249. **IF-2.307**
5. **Sesuraj Babiola Annes**, Rajamani Rajmohan, Subburethinam Ramesh, and Pothiappan Vairaprakash. "Visible light mediated metal-free oxidative aromatization of 1, 3, 5-trisubstituted pyrazolines". *Tetrahedron Letters* **2019**, 60, 150932–150936. **IF-2.032**
6. **Sesuraj Babiola Annes**, and Subburethinam Ramesh. "1,3,5-Triphenylpyrazoline-Based Organocatalysis: Synthesis of Aryl-Heteroaryl Compounds and Exploiting By-Product from the Reaction for Alkyne-Carbonyl Metathesis (ACM) Reaction in One Pot". *Asian Journal of Organic Chemistry*, **2019**, 8, 1398-1404. **IF-3.116**
7. **Sesuraj Babiola Annes**, Pothiappan Vairaprakash, and Subburethinam Ramesh. "TfOH mediated intermolecular electrocyclization for the synthesis of pyrazolines and its application in alkaloid synthesis". *RSC Advances*, **2018**, 8, 30071–30075. **IF-4.036**

Co-author publications:

8. Rajendhiran Saritha, **Sesuraj Babiola Annes**, Karuppaiah Perumal, Bhaskaran Shankar, Subburethinam Ramesh. "DMSO Assisted, Iodine and Ascorbic Acid Catalyzed One-Pot Synthetic Approach for Constructing Highly Substituted Pyrazolo[1,5-*a*]Quinoline Thioether Derivatives". *The Journal of Organic Chemistry*, **2022** (Just accepted manuscript). **IF-4.198**

9. Rajendhiran Saritha, **Sesuraj Babiola Annes**, Karuppaiah Perumal, Anbazhagan Veerappan, and Subburethinam Ramesh. "Oxidative Coupling of Phenylhydrazine Hydrochloride with 2*H*-Indazole Derivatives Using Visible Light Activation of Carbazole Based Organophotocatalyst". *ChemistrySelect*, **2021**, 6, 12440-12445. **IF-2.307**
10. Rajendhiran Saritha, **Sesuraj Babiola Annes** and Subburethinam Ramesh. "Metal-free, regioselective, visible light activation of 4CzIPN for the arylation of 2*H*-indazole derivatives". *RSC advances*, **2021**, 11, 14079-14084. **IF-4.036**
11. Rajendhiran Saritha, **Sesuraj Babiola Annes**, Subramanian Saravanan, and Subburethinam Ramesh. "Carbazole based Electron Donor Acceptor (EDA) catalysis for the synthesis of biaryl and aryl-heteroaryl compounds". *Organic & Biomolecular Chemistry*, **2020**, 18, 2510-2515. **IF-3.89**
12. Muthu Karuppasamy, BS Vachan, Tanvi Jandial, **Sesuraj Babiola Annes**, Nattamai Bhuvanesh, C Uma Maheswari, and Vellaisamy Sridharan. "Palladium(II)-Catalyzed Direct Access to Indeno[1,2-*c*]isochromen-5(11*H*)-Ones via Intramolecular Oxypalladation-Initiated Cascade Process". *Advanced Synthesis & Catalysis*, **2020**, 362, 2716-2724. **IF-5.981**

CONFERENCE PRESENTATIONS

- First virtual J-NOST symposium (XVI-J-NOST) held during 31st Oct – 1st Nov 2020, organized by IISC, Bangalore, India. (Poster presentation)
- International conference on Chemical Sciences and Nanomaterials (ICCSN-2019) held during 7th – 9th March 2019 at VIT, Vellore, Tamil Nadu, India. (Poster presentation)

PERSONAL DETAILS

Date of Birth	:	17.02.1995
Father's name	:	S. V. Sesuraj
Spouse name	:	Dr. S. Kartik Kumar Ph.D (Scientist, Apollo Hospitals Research Foundation, Hyderabad)
Address	:	Chinthal, Hyderabad, Telangana, India.
Languages known	:	Tamil and English
Hobbies	:	Listening music

ACKNOWLEDGEMENT

I hereby declare that the particulars furnished above by me are true.

Yours Sincerely

S. Babiola Annes