

COLLEGE WEBSITE- FACULTY PERSONAL PAGE DATASHEET

Name	Dr. SHERIN JOY
Department	CHEMISTRY
Year of Joining	29th NOVEMBER 2021
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Qualifications

Degree	Institute	University
MSc	Christ university	Christ University
BScEd	Regional Institute of Education	Mysore University
M.Phil.	Nil	
Ph.D.	Bangalore University	Bangalore University

Research Degrees

Research	No. s	Journals in which published
National Publications	Nil	
International Publications	08	
Seminars Attended	10	
Workshops	03	
Paper Presentations National	03	
Paper Presentations International	03	Faraday Discussions, 2018

Research Papers Published/Presented

International publications

- 1) **S. Joy**, V. V. Sureshbabu, G. Periyasamy Computational studies on ground and excited state charge transfer properties of peptidomimetics *Faraday Discuss.*, 2018,207, 77
DOI: 10.1039/c7fd00183e

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- 2) **S. Joy**, V. V. Sureshababu, G. Periyasamy, Computational studies on structural, excitation and charge transfer properties of ureidopeptidomimetics, *J. Phys.Chem. B*, 2016, 120 (27), 6469–6478 DOI: 10.1021/acs.jpcc.6b02210
- 3) **S. Joy**, V. V. Sureshababu, G. Periyasamy, Density functional theoretical studies on electronic structural, optical and oxidation properties of thioxylated peptides, *Theor. Chem. Acc.*, 2017, 136, 123. DOI: 10.1007/s00214-017-2157-0
- 4) **S. Joy**, V. V. Sureshababu, G. Periyasamy, Density functional theoretical studies on photoswitching and charge migration dynamics of thio and selenoureidopeptides, *J. Phys. Org. Chem.*, 2017, e3693. DOI: 10.1002/poc.3693
- 5) **S. Joy**, V. V. Sureshababu, G. Periyasamy, DFT Studies on the Terminal Dependent Reversible Switching of Selenoxo Peptides Induced by Cationization, *Chem Select.*, 2017, 2, 4261 DOI: 10.1002/slct.201700480
- 6) **S. Joy**, G. Periyasamy, Electronic Structural Studies of 1-Methylcyclopropene, an Ethylene Antagonist in Various Copper Models, *Comp. Theor. Chem.*, 2020, 1171, 112662 DOI: 10.1016/j.comptc.2019.112662
- 7) B. S. Rani, **S. Joy**, G. Periyasamy, Donor-acceptor interactions and charge oscillation dynamics of imidazolium based ion pairs and their time scales, *Chem. Phys.*, 2020, 529, 110572 DOI: 10.1016/j.chemphys.2019.110572
- 8) **S. Joy**, G. Periyasamy, Influence of explicit water molecules on the charge migration dynamics of peptidomimetics, *Theor. Chem. Acc.*, 2020, 139, 92 DOI: 10.1007/s00214-020- 02609-9

Paper Presentations in International Seminars

1. **Sherin Joy**, presented a paper in Virtual International Conference on Chemical Sciences in Sustainable Technology and Development (2021) on ‘Conformational Switching Upon Oxidation And Optical Properties Of Small Peptide And Peptoid Models: A Comparison Using Density Functional Theory’ conducted by SVNIT, Surat.

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2. **Sherin Joy**, presented a poster in *Virtual winter school on computational chemistry* (2017) on ‘Computational studies on structural charge transfer properties of peptidomimetics’
3. **Sherin Joy**, presented a poster in winter school on materials science (2015) on ‘Computational studies on biomimetics as a medium for charge transfer’ conducted by JNCASR, Bangalore.

Paper Presentations in National Seminars

1. **Sherin Joy** presented a poster entitled ‘Computational studies on the charge transfer properties of peptidomimetics’ in 7th PhD National Poster Symposium organized by Royal Society of Chemistry (London-UK)-India Deccan Local Section (RSC-IDLS)- National Institute of Pharmaceutical Education and Research (NIPER) (2019), Balanagar, Hyderabad
2. **Sherin Joy** presented a poster in the National conference on recent trends in materials science and technology (2019) on ‘The electronic structural and charge transfer properties of peptidomimetics’ conducted by Indian Institute of Space science and Technology, Trivandrum.
3. **Sherin Joy** presented a poster in Indian theoretical chemistry symposium (2016) on ‘Computational studies on structural, excitation and charge transfer properties of ureidopeptidomimetics’ conducted by University of Hyderabad, Hyderabad.

Memberships in Forums, Committees, Societies outside College

Organization	Title	Since (Year)
Royal Chemical Society	Affiliated member	2018-19