

**Dr. V. PADMINI**

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*MKU web page link of the faculty:*

<https://mkuniversity.ac.in/new/school/sc/Padmini.php>

*Scopus link:*

<https://www.scopus.com/results/authorNamesList.uri?st1=padmini&st2=vediappen&origin=searchauthorlookup>

**1. Personal Details**

Date of Birth & Age : 19/06/1973 & 49  
Gender & Marital Status : Female & Married  
Community : MBC  
Nationality : Indian  
Place of Birth : Dharmapuri

**2. Educational Qualifications****2.1. Academic**

Degree/ Examination	Name of the Exam	University/ Institute	Year of Passing	Percentage/ Grade	Main Subject
Under Graduate	BSc	University of Madras	1994	79 %	Chemistry
Teacher Education	B Ed / MEd	-	-	-	-
Post Graduate	MSc	University of Madras	1996	77 %	Chemistry
NET	CSIR-UGC/ NET/ NET-LS	-	-	-	-

**2.2. Research**

Degree	Name of the University	Title of the Thesis	Date of Submis sion	Date of Award
PhD	National Institute of Technology, Tiruchirappalli Tamil Nadu, India	Synthesis and characterization of liquid crystal compounds with novel azo linkage	June 2006	29.03.2007
MPhil	Assam University	Synthesis and characterization of mesomorphic properties of	-	July 2003

		new azo compounds with bend shaped molecular structure		
DSc/DLitt	-	-	-	-

### 3. Post-Doctoral/ Research Associate / Industrial Experience

Name of the University / Institute / Industry	Period of Work	Nature of Work
University of Michigan, Michigan, USA.	2013-2014	Raman Post-Doctoral Fellow (USA)
CLCR (OR) CeNS (Autonomous Institute under DST), Bangalore, Karnataka.	05/07/2006-30/6/2009	Research Associate

### 4. Professional Experience

S.No	Name of the University / Institution	Position Held	From (Date)	To (Date)
1	Madurai Kamaraj University	Associate Professor	19.03.2020	Till date
	Madurai Kamaraj University	Asst.Professor	19/03/2010	18.03.2020
2	Periyar Maniammai University	Asst.Professor	03.07.2009	18.03.2010
3	CLCR (OR) CeNS (Autonomous Institute of DST, New Delhi), Bangalore, Karnataka, India	Research Associate	05.06.2006	30.06.2009

### 5. Teaching

No	Year	Semester	Course Code	Course Title	Hours per Week

### 6. Design/Development of New Curricula and Courses

No	Description	Organization for which it was Developed	Level (PG/UG)
	-	-	-

### 7. Creation of ICT Mediated Teaching-Learning Pedagogy

#### 7.1. SWAYAM / MOOCs

No	Description	Organization for which it was Developed	Level(PG/UG)
	-	-	-

#### 7.2. E-Contents

No	Description	Organization for which it was Developed	Level(PG/UG)
	-	-	-

### 7.3. Development of other ICT Mediated Teaching-Learning Pedagogy

No	Description	Organization for which it was Developed	Level(PG/UG)
	-	-	-

### 8. Research Specialization / Field of Research

- Synthesis of heterocyclic and Carbocyclic compounds
- Development of Chemo-sensors and Biosensors

### 9. Research Publications

Type	International	National
Papers Published in UGC-CARE Listed Journals	54	-
Papers in Refereed Journals (Not mentioned above)	-	-
Books Published	-	-
Books Edited	-	-
Contributions to Book Chapters	-	-
Editor of Conference/Seminar Proceedings	-	-
Papers Published in Conference/Seminar Proceedings	-	-
Papers Presented in Conferences/Seminars	32	30
Conference/Seminar/Workshop Attended	-	-
Deposits in CCDC, PDB, etc.	1444119, 1444118, 1428613, 1427590, 1006593, 1006328	

### 10. Citation Metrics

Cumulative Impact Factor (Recent Annual JCR)	188.9
Total Citations (Scopus/Web of Science)	711
h-Index (Scopus/Web of Science)	17

### 11. Details of Patents

### 12. Research Guidance/Supervision

Degree / Programme	Completed	Submitted	Ongoing
PhD (Full-time)	9	2	1
PhD (Part-time)	-	-	-
MPhil Research Project (Full-time)	10	-	-
MPhil Research Project (Part-time)	-	-	-
MSc Projects/Dissertation	25	-	4
MSc Internships/Summer or Winter Projects	-	-	-

### 13. Funded Research Projects

#### 13.1. Ongoing

S. No	Title of the Project	Funding Agency	Period / Duration	Total Grants Sanctioned (Rs)
1	Molecular Designed	RUSA	2021-2023	3,58,44,000/-

	Development of Imaging agents and Inhibitors: A Chemical Biology Approach”	(Group project one PI- among seven PI)		
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### 13.2 Completed

S. No	Title of the Project	Funding Agency	Duration and Month & Year of Completion	Total Grants Received (Rs)	No of Papers out of Project
1	Synthesis and Characterization of cyanobiphenyl and cholesterol based liquid crystal dimers	Department of Science and Technology, New Delhi, India	completed 2011-2014	21,40,000/-	4
2	Synthesis and Characterization of cholesterol-based liquid crystalline dimers	University Grant Commission, New Delhi, India	completed 2011-2014	6,21,300/-	3
3	Designing of Label free multiplexed electrochemical immunoassay for detection of pathogen (CO-PI)	Department of Science and Technology, New Delhi, India	completed 2016-2019	39,35,800/-	4
4	Functional characterization of natural and synthetic derivatives of deinoxanthin for their antioxidant and radioprotective effects using <i>C. elegans</i> and mouse model system	Board of Research in Nuclear Science, Mumbai, India	completed 2018-2020	29,49,600/-	3

### 14. Reviewer in Journals

Name of the Journal	Publisher	-
<ul style="list-style-type: none"> <li>• Current Green Chemistry</li> <li>• Current drug therapy</li> <li>• Mini-Reviews in Medicinal Chemistry</li> <li>• Current Medicinal Chemistry</li> </ul>	Bentham Science	
<ul style="list-style-type: none"> <li>• Sensors and Actuators B: Chemical</li> <li>• Journal of Photochemistry and Photobiology A: Chemistry</li> <li>• Journal of Molecular Structure</li> <li>• Bioorganic and Medicinal Chemistry Letters</li> <li>• Inorganica Chimica Acta Journal Carbohydrate research</li> <li>• Computational Biology and Chemistry</li> <li>• European Journal of Medicinal Chemistry</li> </ul>	Elsevier	
<ul style="list-style-type: none"> <li>• ChemistrySelect</li> <li>• Chemistry &amp; Biodiversity</li> </ul>	Wiley	

### 15. Research Collaborations

Sl.No	Name of the Collaborator	Institute	Collaboration Details
1.	Prof. A. Ramamoorthy	Dept. of Chemistry & Biophysics, University of Michigan, USA.	<ul style="list-style-type: none"> <li>• <i>Chem. Comm</i>, 2020, 56, 13129-13132.</li> <li>• <i>Chem. Comm.</i>, 2016, 52, 942-945.</li> </ul>
2.	Prof. S.L. Lee	National Chung Cheng Dept. of Chemistry & Biochemistry, National Chung Cheng University, Taiwan.	<ul style="list-style-type: none"> <li>• <i>J Fluoresc</i>, 2022, 32, 1389–1396.</li> <li>• <i>J Fluoresc</i>, 2022, 32, 1481–1488.</li> </ul>
3.	Dr. V. Srinivasadesikan	Dept. of Applied Chemistry, Vignan's Foundation for Science, Technology and Research, Andhra Pradesh.	<ul style="list-style-type: none"> <li>• <i>Photochem. Photobiol. A</i>, 2021, 2021, 411, 113192.</li> <li>• <i>J. Photochem. Photobiol. A</i>, 2020, 112615.</li> </ul>
4.	Prof.L. Ming-Chang	Department of Applied Chemistry, National Yang Ming Chiao Tung University, Hsinchu, 30010, Taiwan.	<ul style="list-style-type: none"> <li>• <i>J. Photochem. Photobiol. A</i>, 2022 <a href="https://doi.org/10.1016/j.jphotochem.2022.114338">https://doi.org/10.1016/j.jphotochem.2022.114338</a></li> <li>• <i>J. Mol. Struct</i>, 2022, 1272, 134241-134246.</li> </ul>
5.	Prof.N. Bhuvanesh,	Department of Chemistry Texas A&M University College Station, USA, TX 77842	<ul style="list-style-type: none"> <li>• <i>ACS Comb. Sci.</i>, 2016, 18, 236–242.</li> <li>• <i>New J. Chem.</i>, 2016, 40, 4705-4709</li> </ul>
6.	Prof. G. Kumaresan, Dr. V. Shanmugaiah, Dr. P. Varalakshmi	Madurai Kamaraj University, Madurai.	<ul style="list-style-type: none"> <li>• <i>ChemistrySelect</i>, 2017, 2, 6154-6158.</li> <li>• <i>Bioorganic Med. Chem. Lett</i>, 2016, 26, 1655-1659.</li> <li>• <i>ChemistrySelect</i>, 2018, 3, 2976-2981</li> </ul>

## 16. Countries Visited

Name of the Country	Period	Purpose
USA	2013-2014	Raman Post-Doctoral Fellow, University of Michigan, USA was awarded by UGC, New Delhi.

## 17. Honours / Awards / Recognitions

Name of the Honours / Awards / Recognition	Awarding Agency	International / National / State / Institute Level
1. Research Associate (July 2006 to March 2008).	Council of Scientific and Industrial Research (CSIR), New Delhi, India.	National
2. Research Associate (April 2008 to June 2009)	Department of Science and Technology (DST), Delhi, India.	National National

3. Young Scientist- Fast Track, (2010-2014)	SERB, New Delhi, India.	
4. Summer Teacher Fellowship, (May and June 2012)	INSA, Bangalore.	National
5. Raman Fellow, University of Michigan, USA. (2013-2014)	UGC, New Delhi, India.	National

### 18. Conferences / Seminars / Workshops Organized

Level	Conference Title	Date(s)	Place	Role Played	Funding
-	-	-	-	-	-

### 19. Invited Lectures / Resource Person

No	Institute / Organizer	Name of the Conference / Seminar / Workshop	International / National / State / Institute Level	Date(s)
1	UGC-Academic Staff College, Madurai Kamaraj University, Madurai.	Recent Trends in organic name reactions	National level	18/10/2022
2	UGC-Academic Staff College, Madurai Kamaraj University, Madurai.	Small organic molecules as a sensor for detection of biomolecules	National level	10/10/022
3	Sri Vijay Vidyalaya College of Arts and Science	Importance of Chemistry	State level	09.01.2015
4	Kailash Womens College, Nangavalli, Salem,	Recent Advancement in Organic Chemistry	State level	31.07.2014
5	Shri Sakthikailassh Womens College, Salem.	Recent Advances in Organic Chemistry	State level	20.09.2013
6	V.V.Vanniyaperumal College for Women, Viruthunagar, TN, India	Chemistry Importance and opportunities	National level	22/07/2013
7	UGC-Academic Staff College, Madurai Kamaraj University, Madurai.	Introduction to liquid crystal	National level	17/07/2012

### 20. Professional Development Programs / Faculty Development Programs Organized

Name of the Program	Role	Place	Date(s)	Funds in Rs & Sponsor
-	-	-	-	-

### 21. Professional Development Programs / Faculty Development Programs Attended

Name of the Program	Place	Date(s)	Sponsor
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Refresher Course	UGC-Human Resource Development Centre, Madurai Kamaraj University, Madurai.	18.12.2021 to 21.12.2021.	UGC
Short Term course	UGC-Human Resource Development Centre, Madurai Kamaraj University, Madurai.	09.03.2020 to 15.03.2020	UGC
Refresher Course	UGC-Academic Staff College, Madurai Kamaraj University, Madurai.	02.11. 2016 to 22.11.2016	UGC
Orientation Programme	UGC-Academic Staff College, Madurai Kamaraj University, Madurai.	09.02. 2011 to 08.03.2011	UGC
Refresher Course	UGC-Academic Staff College, Madurai Kamaraj University, Madurai.	13.07. 2011to 02.08.2011.	UGC

## 22. Administrative Experiences

Role Played	Responsibilities	Period (from ... to)
1.Library-in-Charge 2.Chemical Store-in-Charge	In- charge	2010 - till date

## 23. Membership in Academic Bodies

Name of the University / Institute / College	Type of Membership	Duration / Period
Cauvery College for women Trichy, TN.	Board of studies-member	May 2019- May 2022
Arul Anandar College Karumathur, Madurai, TN.	Board of studies-member	2019-2021
Bharathidasan University Trichirappalli-24, TN.	Member -Question paper setting	2017-2019
Gandhigram Rural Institute Trichirappalli-24, TN.	Member -Question paper setting	2016
Periyar University Salem-11, TN.	Doctoral Committee member	2019-2022
Mangalore University Mangalagangothri-574199 Karnataka state	Examiner for Thesis Evaluation	2022
Sri Meenakshi Government Arts College for Women (autonomous), Madurai.	Board of Studies	31.05.2022 to 30.05.2025
V.V.Vanniaperumal College for Women's(autonomous), Virudhunagar.	Awards Committee	27.6.2022 to 26.6.2025
E.M.G. Yadava College for Women's (autonomous), Madurai.	Board of Studies	17.3.2021 to 16.3.2023

## 24. Membership in Recognised Professional Bodies

Name of the Professional Body	International / National	Type of Membership
Indian Liquid Crystal society (ILC)	Life member	2006 – Till date
Electrochemical Society of India (ECSI)	Life member	2006 - Till date
ISTE	Life member	2009 - Till date
Indian Science Congress	Life member	2012 - Till date

## 25. Languages Known

Languages	Read	Write	Speak
Tamil, English	Yes / No	Yes	Yes

## 26. Competence in Computer Applications

- Chem draw
- Excel
- Origin
- MS Office

## 27. Involvement in Extension Activities other than Academic Works

## 28. Any Other Relevant Information

### Details of Publications

#### 1. Books Published

#### 2. Books Edited

#### 3. Contribution to Book Chapters

#### 4. Editor of Conference/Seminar Proceedings

#### 5. Research Publications

##### 5.1. UGC-CARE Listed Journals

1. Development of optical sensor for the detection of alanine by organic fluorophore.  
V. Sathya, V. Srinivasadesikan, Ming-Chang Lin, (**Vediappen Padmini\***),  
*J. Photochem. Photobiol. A*, 2022  
Impact Factor: 5.141; Citations: 0  
<https://doi.org/10.1016/j.jphotochem.2022.114338>
2. Highly sensitive and selective detection of tryptophan by antipyrine based fluorimetric sensor.  
V. Sathya, V. Srinivasadesikan, Ming-Chang Lin, (**Vediappen Padmini\***)  
*J. Mol. Struct.*, 2022, 1272, 134241-134246.  
Impact Factor: 3.841; Citations: 0



- <https://doi.org/10.1016/j.molstruc.2022.134241>
3. Highly sensitive and selective detection of melatonin in biofluids by antipyrine based fluorophore  
V. Sathya, A. Deepa, L. K. Sangeetha, V. Srinivasadesikan, S. L Lee, (**Vediappen Padmini\***) *J Fluoresc*, 2022, (accepted).
  4. Development of Optical Biosensor for the Detection of Glutamine in Human Biofluids Using Merocyanine Dye,  
V. Sathya, A. Deepa, L. K. Sangeetha, V. Srinivasadesikan, S. L Lee, (**Vediappen Padmini\***) *J Fluoresc*, 2022, **32**, 1389–1396.  
Impact Factor: 2.525; Citations: 2  
<https://doi.org/10.1007/s10895-022-02937-y>
  5. Effective Detection of Phenylalanine Using Pyridine Based Sensor V. Sathya, V. Srinivasadesikan, S. Long Lee, (**Vediappen Padmini\***) *J Fluoresc*, 2022, **32**, 1481–1488.  
Impact Factor:2.525; Citations: 1  
<https://doi.org/10.1007/s10895-022-02944-z>
  6. Highly selective and sensitive response of curcumin thioether derivative for the detection of hypochlorous acid by fluorimetric method, J. Ramamoorthy, V. Sathya, R. Lavanya, (**Vediappen Padmini\***), *J. Iran. Chem. Soc*, 2022, **19**, 3327–3335.  
Impact Factor:2.71; Citations: 1  
<https://doi.org/10.1007/s13738-022-02528-5>
  7. A Chemodosimeter for Selective Fluorogenic and Chromogenic Detection of Phenylenediamine Isomers,  
J. Ramamoorthy, A. Deepa, V. Sathya, R. Lavanya, V. Mathivanan, V. Srinivasadesikan, S. Long Lee, (**Vediappen Padmini\***) *J. Iran. Chem. Soc.* 2022, **19**, 2719–2726  
Impact Factor: 2. 71; Citations: 0  
<https://doi.org/10.1007/s13738-021-02489-1>
  8. Highly selective detection of isatin using curcumin analogue and its application in real samples,  
A. Deepa, V. Srinivasadesikan, S. Long Lee, (**Vediappen Padmini\***) *J. Photochem. Photobiol. A*, 2021, **411**, 113192.  
Impact Factor: 5.141; Citations: 0  
<https://doi.org/10.1016/j.jphotochem.2021.113192>
  9. Small molecule induced toxic human-IAPP species characterized by NMR,

- A. Ramamoorthy, S.J. Cox, D.C.R. Camargo, Y.H. Lee, R.C. Dubini, P. Rovó, M.I. Ivanova, B. Reif, **(Vediappen Padmini\*)**, *Chem. Comm*, 2020, 56, 13129-13132.  
Impact Factor: 6.065; Citations: 14  
<https://doi.org/10.1039/D0CC04803H>
10. Highly Selective and Sensitive detection of histidine by naked eye and fluorimetric method in aqueous medium via hydrogen bonding,  
A. Deepa, V. Srinivasadesikan, S. Long Lee, **(Vediappen Padmini\*)**, *J. Photochem. Photobiol. A*, 2020, 112615.  
Impact Factor: 5.141 Citations: 3  
<https://doi.org/10.1016/j.jphotochem.2020.112615>
11. Benzofuran: A Key Heterocycle - Ring Closure and Beyond,  
A. Lavanya, K. Narasimhan, **(Vediappen Padmini\*)** *Mini Rev Org Chem*. 2020, 17, 1-52.  
Impact Factor: 2.159; Citations: 2  
<https://doi.org/10.2174/1570193X16666190710122912>
12. Highly Selective and Sensitive Colorimetric and Fluorimetric Sensor for Cu<sup>2+</sup>,  
A. Deepa, V. Srinivasadesikan, S. Long Lee, **(Vediappen Padmini\*)** *J. Fluoresc*, 2020, 30, 3–10.  
Impact Factor: 2.525; Citations: 7  
<https://doi.org/10.1007/s10895-019-02450-9>
13. Highly Efficient Colorimetric Sensor for Selective and Sensitive Detection of Arsenite Ion (III) in Aqueous Medium, A. Deepa, **(Vediappen Padmini\*)**, *J Fluoresc*, 2019, 29, 813–818.  
Impact Factor: 2.525; Citations: 9  
<https://doi.org/10.1007/s10895-019-02401-4>
14. Synthesis, biological evaluation and in silico studies of tetrazole-heterocycle hybrids  
R. Sribalan, G. Banuppriya, M. Kirubavathi, **(Vediappen Padmini\*)**, *J. Mol. Struct*, 2019, 1175, 577-586.  
Impact Factor: 3.841; Citations:17  
<https://doi.org/10.1016/j.molstruc.2018.07.114>
15. Merocyanine Dye-Based Fluorescent Chemosensor for Highly Selective and Sensitive Detection of Hypochlorous Acid and Imaging in Live Cells,

- K. Ponnuvel, J. Ramamoorthy, G. Sivaraman, **(Vediappen Padmini\*)**  
*ChemistrySelect*, 2018 3,1, 12150-12154.  
Impact Factor: 2.307; Citations: 13  
<https://doi.org/10.1002/slct.201701833>
16. Synthesis and characterization of curcumin-sulfonamide hybrids: Biological evaluation and molecular docking studies  
G. Banuppriya, R. Sribalan, **(Vediappen Padmini\*)** *J. Mol. Struct.*, 2018, 1155, 90-100.  
Impact Factor: 3.841; Citations: 24  
<https://doi.org/10.1016/j.molstruc.2017.10.097>
17. Synthesis and characterization of curcumin-sulfonamide hybrids: Biological evaluation and molecular docking studies,  
G. Banuppriya, R. Sribalan, **(Vediappen Padmini\*)**, *J. Mol. Struct.*, 2018, 1155, 90-100.  
Impact Factor: 3.841; Citations: 30  
<https://doi.org/10.1016/j.molstruc.2017.10.097>
18. Evaluation of Anticancer Activity of Water-Soluble Curcumin through the Induction of Apoptosis by p53 and p21 Modulation,  
G. Banuppriya, G. Shakambari, R. Sribalan, P. Varalakshmi, **(Vediappen Padmini\*)**, *ChemistrySelect*, 2018, 3, 2976-2981.  
Impact Factor: 2.307; Citations: 8  
<https://doi.org/10.1002/slct.201800217>
19. I<sub>2</sub>-Catalyzed Oxidative Cross-Coupling Reaction of Methyl Ketones and 2-(2-aminophenyl) Benzimidazole: Facile Access to Benzimidazo[1,2-c] quinazoline,  
S. Ambethkar, M. Kalaiselvi, J. Ramamoorthy, **(Vediappen Padmini\*)**, *ACS Omega*, 2018, 3, 5021–5028.  
Impact Factor: 4.132; Citations: 13  
<https://doi.org/10.1021/acsomega.8b00067>
20. Synthesis of  $\beta$ -Ketoamide Curcumin Analogues for Anti-Diabetic and AGEs Inhibitory Activities,  
G. Banuppriya, R. Sribalan, **(Vediappen Padmini\*)**, *Chemistry & Biodiversity*, 2018, 15, 1800105.  
Impact Factor: 2.408; Citations: 10  
<https://doi.org/10.1002/cbdv.201800105>

21. Er(OTf)<sub>3</sub> assisted efficient synthesis of 3-hydroxynaphthalene-1, 4-dione derivatives via pseudo four-component reactions and their biological evaluation,  
M. Kumar, R. Sribalan, (**Vediappen Padmini\***), *ChemistrySelect.*, 2017, 2, 489–493.  
Impact Factor: 2.307; Citations: 4  
<https://doi.org/10.1002/slct.201601340>
22. Iodine-mediated C-N and C-S bond formation: regioselective synthesis of benzo [4,5] imidazo [2,1-b] thiazoles,  
S. Ambethkar, M. Vellimalai V, (**Vediappen Padmini\***), *New J. Chem.*, 2017, 41, 75-80.  
Impact Factor: 3.591; Citations: 20  
<https://doi.org/10.1039/C6NJ02102F>
23. Synthesis of a water-soluble pyrazole curcumin derivative: *In vitro* and *In vivo* AGE inhibitory activity and its mechanism,  
R. Sribalan, G. Shakambari, G. Banuppriya, P. Varalakshmi, E. Subramanian, S. Sudhakar, (**Vediappen Padmini\***), *ChemistrySelect.*, 2017, 1, 1-8.  
Impact Factor; 2.307; Citations: 11  
<https://doi.org/10.1002/slct.201601740>
24. Synthesis and biological evaluation of new benzofuran carboxamide derivatives,  
A. Lavanya, R. Sribalan, (**Vediappen Padmini\***), *J. Saudi Chem. Soc.*, 2017, 21, 277-285.  
Impact Factor: 3.932; Citations: 23  
<https://doi.org/10.1016/j.jscs.2015.06.008>
25. Synthesis of 3-substituted quinazolinones *via* C-N and C-C bond cleavage of enamionone,  
S. Ambethkar, M. Kalaiselvi, N. Bhuvanesh, (**Vediappen Padmini\***), *ChemistrySelect.*, 2017, 2, 5329-5332.  
Impact Factor: 2.307; Citations: 7  
<https://doi.org/10.1002/slct.201700457>
26. A-one pot four component and microwave assisted synthesis of pyrrolo [1,10] phenanthrolines,

- D. Isaivani, G. Kumaresan, S. Karthikeyan, (**Vediappen Padmini\***), *ChemistrySelect*, 2017, 2, 6154-6158.  
Impact Factor: 2.307; Citations: 4  
<https://doi.org/10.1002/slct.201700819>
27. An efficient synthesis of nitrile, tetrazole and urea from carbonyl compounds  
R. Sribalan, A. Sangili, G. Banuppriya, (**Vediappen Padmini\***), *New J. Chem.*, 2017, 41, 3414 - 3421.  
Impact Factor: 3.591; Citations: 10  
<https://doi.org/10.1039/C6NJ03860C>
28. Stereo selective green protocol for the synthesis of highly substituted 1-phenyl-tetrahydro indeno [1, 2-b] pyrroles,  
M. Kumar, N. Bhuvanesh, (**Vediappen Padmini\***), *Res. Chem. Intermed.*, 2017, 43, 4517-4530.  
Impact Factor: 2.914; Citations: 0  
<https://doi.org/10.1007/s11164-017-2893-8>
29. Evaluation of antioxidant, anti-inflammatory, antibacterial activity and in silico molecular docking study of pyrazole curcumin bisacetamide analogs,  
G. Banuppriya, R. Sribalan, (**Vediappen Padmini\***), *ChemistrySelect.*, 2017, 2, 9168-9173.  
Impact Factor: 2.307; Citations: 4  
<https://doi.org/10.1002/slct.201701533>
30. Synthesis, characterization and antioxidant activities of Schiff bases are of cholesterol,  
M. Kumar, K. Ponnuvel, (**Vediappen Padmini\***), *J. Saudi Chem. Soc.*, 2017, 21, S322-S328.  
Impact Factor: 3.932; Citations: 32  
<https://doi.org/10.1016/j.jscs.2014.03.006.32>
31. Biological evaluation and molecular docking studies of new curcuminoid derivatives: synthesis and characterization,  
G. Banuppriya, R. Sribalan, V. Shanmugaiah, (**Vediappen Padmini\***), *Bioorganic Med. Chem. Lett.*, 2016, 26, 1655-1659.  
Impact Factor: 2.823; Citations: 26  
<https://doi.org/10.1016/j.bmcl.2016.02.066>

32. Chemodivergent, one-pot, multi-component synthesis of pyrroles and tetrahydropyridines under Solvent- and catalyst-free conditions using the grinding method,  
D. Isaivani, N. Bhuvanesh, (**Vediappen Padmini\***), *ACS Comb. Sci.*, 2016, 18, 236–242.  
Impact Factor: 3.381; Citations: 25  
<https://doi.org/10.1021/acscombsci.5b00154>
33. Influence of a curcumin derivative on hIAPP aggregation in the absence and presence of lipid membranes,  
A.S. Pithadia, A. Bhunia, R. Sribalan, C.A. Fierke, A. Ramamoorthy, (**Vediappen Padmini\***), *ChemComm.*, 2016, 52, 942-945.  
Impact Factor: 6.065; Citations: 63  
<https://doi.org/10.1039/C5CC07792C>
34. A one pot sequential five component domino reaction for expedient synthesis of polysubstituted pyrroles,  
S. Ambethkar, (**Vediappen Padmini\***), N. Bhuvanesh, *New J. Chem.*, 2016, 40, 4705-4709.  
Impact Factor: 3.591; Citations: 13  
<https://doi.org/10.1039/C5NJ03444B>
35. Curcumin based chemosensor for selective detection of fluoride and cyanide anions in aqueous media,  
Ponnuvel K, Santhiya K, (**Vediappen Padmini\***), *Photochem Photobiol Sci.*, 2016, 15, 1536-1543.  
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42. A new tetrazole based turn-on fluorescence chemosensor for  $Zn^{2+}$  ions and its application in bioimaging,  
K. Ponnuvel, R. Sribalan, (**Vediappen Padmini\***), *Sens. Actuators, B.*, 2015, 222, 605-611.  
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Impact Factor: 1.599; Citations: 1

<https://doi.org/10.1002/crat.200800133>

## 5.2. Other Refereed Journals

## 5.3. Papers Published in Conference Proceedings

## 5.4. Papers Presented in Conferences / Seminars

### 5.4.1. International

1. R.Lavanya and (**Vediappen Padmini\***) Highly selective and sensitive detection of putrescine by optical method using organic probe Indo-Malaysian Two-Day International E-Conference On “Recent Trends in Natural Products Research and their Applications” (RTNPRA-21) MKU, Madurai. **16-17 September, 2021.**
2. R.Lavanya and (**Vediappen Padmini\***) A Highly Selective Turn-On Chemodosimeter for Detection of L- Carnitine by Schiff base International workshop-cum- conference on smart materials and their applications in recent technologies(SMART 2020) Periyar university, Salem **4-5<sup>th</sup> Mar 2020.**
3. V.Sathya and (**Vediappen Padmini\***) Development of optical sensor for the detection of Perfluorooctanoic acid by organic fluorophore, international workshop-cum-conference on smart materials and their applications in recent technologies (SMART 2020) **4-5<sup>th</sup> Mar 2020.**
4. V.Sathya and (**Vediappen Padmini\***) “Highly Selective Detection of Phenylalanine for the Development of Optical Biosensor by using Organic Fluorophore” International Conference frontiers in chemical and material sciences GRI Gandhigram. **24-25<sup>th</sup> Feb 2020.**
5. J. Ramamoorthy and (**Vediappen Padmini\***) “Turn On response for detection of hypochlorous acid by Thioetherbisdemethoxy curcumin as a Sensor” (24-25<sup>th</sup> Feb 2020). International Conference frontiers in chemical and material sciences GRI Gandhigram. **24-25<sup>th</sup> Feb 2020.**
6. R.Lavanya and (**Vediappen Padmini\***) “Design of highly sensitive and selective detection of choline by Isatin based sensor” International Conference frontiers in chemical and material sciences GRI Gandhigram. **24-25<sup>th</sup> Feb 2020.**
7. A.Deepa, (**Vediappen Padmini\***) Development of highly efficient fluorimetric and colorimetric sensor for selective detection of picric acid, International Conference on recent trends in chemistry and bioscience, Madurai, TN, India. **16-17 may 2019.**
8. J.Ramamoorthy, (**Vediappen Padmini\***) New fluorescent probe for turn on the thioether curcumin sensor in the detection of hypochorous acids and colorimetric method. International Conference on recent trends in chemistry and bioscience, Madurai, TN, India. **16-17 may 2019.**

9. V.Sathya and (**Vediappen Padmini\***) Highly sensitive and selective detection of alanine biomarker by organic fluorophore International Conference on recent trends in chemistry and bioscience, Madurai, TN, India. **16-17 may 2019.**
10. R.Lavanya and (**Vediappen Padmini\***) Highly selective and sensitive detection of  $\text{Cu}^{2+}$  by colorimetric method using organic compound. International Conference on recent trends in chemistry and bioscience, Madurai, TN, India. **16-17 may 2019.**
11. J.Ramamoorthy, (**Vediappen Padmini\***) “Efficient colorimetric based merocyanine dye for selective sensing of  $\text{F}^-$  ions and its application for live cell imaging” International Conference on Research Initiatives in Chemistry for Sustainable Development, GRI Gandhigram, TN, India **18-19<sup>th</sup> Mar. 2019**
12. A.Deepa, (**Vediappen Padmini\***) “Rhodamine based fluorimetric and colorimetric detection of histidine in aqueous medium.” International Conference on Research Initiatives in Chemistry for Sustainable Development, GRI Gandhigram, TN, India **18-19<sup>th</sup> Mar. 2019**
13. V.Sathya, (**Vediappen Padmini\***) “Highly sensitive and selective detection of biological rhythms based on fluorescent biosensor. International Conference on Research Initiatives in Chemistry for Sustainable Development, GRI Gandhigram, TN, India **18-19<sup>th</sup> Mar. 2019.**
14. V.Sathya, A.Deepa, L. Sangeetha, (**Vediappen Padmini\***) Development of Optical biosensor for the detection of glutamine in human biofluida using merocyanine dye as a sensor, International Conference on Nanomedicine, Madurai, TN, India. **25-26<sup>th</sup> Feb 2019.**
15. A.Deepa, (**Vediappen Padmini\***) Rhodamine Based naked eye and fluorimetric probe selective and sensitive detection of  $\text{Cu}^{2+}$  2<sup>nd</sup> International Conference on Recent Trends in Applied Science and Technology. Salem, TN, India. **23-25<sup>th</sup>, Aug 2018**
16. A.Lavanya, R.Sribalan and (**Vediappen Padmini\***) Molecular docking studies and biological evaluation of synthesized N-aryl substituted 1-((1-4-arylcarbonylpiperidin-4-yl) methyl)-1H-1,2,3-triazole-4-carboxamide” International conference on Advanced Functional Materials for Energy, Environmental and Biomedical Application Madurai, TN, India. **11-12<sup>th</sup> Dec 2017**
17. K.Ponnuvel, A. Deepa, G. Sivaraman, (**Vediappen Padmini\***) “Highly Efficient Selective and Sensitive Detection of  $\text{F}^-$  and  $\text{CN}^-$  ions and its Application in Live Cell Imaging” International conference on Advanced Functional Materials for Energy, Environmental and Biomedical Application Madurai, TN, India. **11-12<sup>th</sup> Dec 2017**
18. G. Banuppriya and (**Vediappen Padmini\***) “Synthesis of  $\beta$ -Ketoamido Curcumin Analogues for Anti-Diabetic and AGEs Inhibitory Activities” International conference on Advanced Functional Materials for Energy, Environmental and Biomedical Application, Madurai, TN, India. **11-12<sup>th</sup> Dec 2017**
19. G.Banuppriya and (**Vediappen Padmini\***) “Biologically Important of curcumin derivatives: DFT calculations and molecular docking studies” International conference on Frontier Areas in Chemical Technologies. Karaikudi, TN, India. **06-08<sup>th</sup> July 2017**
20. S.Ambethkar and (**Vediappen Padmini\***) An efficient catalyst free green protocol for the synthesis of highly functionalized novel pyrroles via enamionone, International conference on recent advances in materials and chemical sciences Gandhigram Rural Institute-Deemed University, Gandhigram. **14-15 December 2015**
21. M. Isaivani and (**Vediappen Padmini\***) Synthesis, characterization and regioselective construction of pyrrolo [1,2-*a*] [1,10] phenanthroline via one pot reaction 13<sup>th</sup> Eurasia Conference on Chemical sciences IISC, Bangalore. **14-18 December 2014**

22. S.Ambethkar and (**Vediappen Padmini\***) Erbium triflate stimulated-one pot multicomponent Synthesis of polysubstituted pyrrole derivatives 13<sup>th</sup> Eurasia Conference on Chemical sciences IISC, Bangalore. **14-18 December 2014**
23. R.Sri Balan and (**Vediappen Padmini\***) .synthesis and biological evaluation of 3-(pyridine-4-yl)-1H-pyrazole-5-carboxamide chalconoids:invitro Anti inflamatory and Antioxidant activity. 13<sup>th</sup> Eurasia Conference on Chemical sciences IISC, Bangalore. **14-18 December 2014**
24. G.Banuppriya and R.Sri Balan and (**Vediappen Padmini\***)synthesis and biological evaluation of novel curcumin bis acetamide derivatives 13<sup>th</sup> Eurasia Conference on Chemical sciences IISC, Bangalore. **14-18 December 2014**
25. K. Ponnuvel and (**Vediappen Padmini\***) Turn on fluorescence for chemosensor for fluoride ion based on a proton transfer signaling mechanism and imaging in living cells, 13<sup>th</sup> Eurasia Conference on Chemical sciences IISC, Bangalore. **14-18 December 2014**
26. R. Sri Balan and (**Vediappen Padmini\***) An efficient one pot synthesis of 1,5-Disubstituted Tetrazoles from Amides: Thermal and Microwave Irradiation International Symposium on Transcending Frontiers in Organic Chemistry CSIR-NIIST, Thiruvananthapuram, **9-11 October 2014.**
27. M. Kumar and (**Vediappen Padmini\***) Microwave assisted catalyst free one pot green synthesis of 1-*H*-tetrazoles by multicomponent and [2+3] cycloaddition reactions International Conference on Advances in New materials University of Madras, Chennai. **20-21 June 2014**
28. K. Ponnuvel and (**Vediappen Padmini\***) An efficient synthesis of benzylpyrazoyl naphthoquinoline derivatives via multicomponent reaction and their photo physical properties, International Conference on Advances in New materials University of Madras, Chennai. **20-21 June 2014**
29. S. Ambethkar and (**Vediappen Padmini\***) An efficient solvent free one pot synthesis of dihydropyrano[2,3-*c*] pyrazole derivatives by grinding method, International Symposium on Nature Inspired Initiative Chemical Trends. CSIR-IICT, Hyderabad. **02-05 March 2014.**
30. M. Isaivani and (**Vediappen Padmini\***) Synthesis of functionalized N-Aryl 1,4-dihydropyridines via domino reaction, International conference on emerging prontiers and challances in chemistry, All saints college, Thiruvananthapuram. **17-18 February 2014**
31. K. Ponnuvel and (**Vediappen Padmini\***) Salicylaldimine based compounds for antioxidant property with coumarin moieties, International conference on Recent Advanced in Textile and Electrochemical Sciences Alagappa University, Karaikudi. **21-23 March 2013**
32. M. Isaivani and (**Vediappen Padmini\***) Synthesis and characterization of coumarin based liquid crystal compounds International Conference on Biological Inorganic Chemistry, Periyar University, Salem **20-22 February 2013**
33. M. Kumar and (**Vediappen Padmini\***). Synthesis and characterization of cholesterol based imines and their liquid crystal properties International Conference on Biological Inorganic Chemistry Periyar University, Salem. **20- 22 February 2013.**

#### 5.4.2. International held within India

#### 5.4.3. National

1. V. Sathya, (**Vediappen Padmini\***), Development of optical sensor for detection of catechol using curcumin analogue, National conference on analytical and materials

- chemistry for everyday life (AMC-21) Theivanai ammal college for women (autonomous), Villupuram – 605 401, 3rd Feb 2021.
2. R. Lavanya, (**Vediappen Padmini\***), Highly selective detection of lysine for the development of optical biosensor by using organic fluorophore, National conference on analytical and materials chemistry for everyday life (AMC-21) Theivanai ammal college for women (autonomous), Villupuram – 605 401, 3rd Feb 2021.
  3. M. Kumar, (**Vediappen Padmini\***), A Green Approach for the synthesis of substituted 3- pyrrolin-2-ones and highly functionalized dihydro-2-oxopyrroles using citric acid as bio-based solvent under microwave, National conference on advances in materials and methods of chemistry. Bharath deemed university, Chennai, 21 Dec 2019.
  4. A. Deepa, (**Vediappen Padmini\***), Rhodamine Based Fluorimetric and Colorimetric Sensor for Detection of Explosive Picric Acid in Aqueous Medium, National Conference on Sustainability of Resources: Spatial Challenges Using Geospatial Technologies, Madurai, TN, India. 3rd Feb 2018.
  5. L. Sangeetha, V. Sathya, A. Deepa, (**Vediappen Padmini\***), Detection of Glutamine in Human Biofluids using Merocyanine Dye as a sensor By fluorimetric Techniques, National Conference on Sustainability of Resources: Spatial Challenges Using Geospatial Technologies, Madurai, TN, India. 4-5th 2018.
  6. A. Deepa, (**Vediappen Padmini\***), Chemosensor for Highly Selective and Sensitive Detection of Arsenite ion (III) in Aqueous Medium, National Conference on Recent Developments of Chemistry in Engineering Applications. Chennai, TN, India, 3rd Feb 2018.
  7. G. Banupriya, (**Vediappen Padmini\***), Biological Evaluation and Molecular Docking Studies of Pyrazole Curcumin Bisacetamide Analogs, National Conference on Recent Developments of Chemistry in Engineering Applications. Chennai, TN, India, 3rd Feb 2018.
  8. R. Sri Balan, (**Vediappen Padmini\***), Synthesis, Molecular docking and DFT studies of Cholesterol derivatives, National Conference on Recent Developments of Chemistry in Engineering Applications, Chennai TN, India, 3rd Feb. 2018.
  9. R. Sribalan, (**Vediappen Padmini\***), Crystal structure, biological evaluation and insilico studies of 3-(1-(4-fluorophenyl)-1H-tetrazole-5-yl) pyridine, National Conference on Advances in functional materials. Chennai, TN, India, 5th August 2017.

10. A. Lavanya, R. Sribalan, (**Vediappen Padmini\***), Crystal structure and biological evaluation of 3-(2-(piperidin-1-yl) acetamido) benzofuran -2-carboxamide, National Conference on Advances in functional materials, Chennai, TN, India, 5th August 2017.
11. J. Ramamoorthy, K. Ponnuvel, (**Vediappen Padmini\***), Merocyanine dye-based fluorescent chemosensor for highly selective and sensitive detection of hypochlorous acid and imaging in live cells, National Conference on Biomaterials in Medicinal Chemistry, Madurai Kamaraj University, Madurai, 12-13 April 2017.
12. R. Sri Balan, G. Shahambari, P. Varalakshmi, (**Vediappen Padmini\***), Anti-AGEs active water soluble Pyrazolyl Curcumin disodium acetate: Invitro, In vivo studies and its Mechanism, National Conference on Biomaterials in Medicinal Chemistry, Madurai Kamaraj University, Madurai, 12-13 April 2017.
13. A. Lavanya, R. Sribalan, (**Vediappen Padmini\***), Synthesis and biological evaluation of N-(4-fluorophenyl)-3,5-dimethyl-4-substituted pyrazole derivatives, National Conference on Biomaterials in Medicinal Chemistry, Madurai Kamaraj University, Madurai, 12-13 April 2017.
14. G. Banupriya, R. Sribalan, G. Shahambari, P. Varalakshmi, (**Vediappen Padmini\***), Synthesis, Characterization and biological evaluation of water-soluble Curcumin conjugates, National Conference on Biomaterials in Medicinal Chemistry Madurai Kamaraj University, Madurai, 12-13 April 2017.
15. K. Ponnuvel, (**Vediappen Padmini\***), A new Quinoline based chemosensor for Zn<sup>2+</sup> ions and their application in living cell imaging, CRSI- National seminar on Emerging trends in chemistry, Madurai Kamaraj University, Madurai, 18-20 February 2016.
16. M. Kumar, (**Vediappen Padmini\***), A green approach for the synthesis of substituted 3-pyrrolin-2-ones and highly functionalized dihydro-2-oxopyrroles using citric acid as bio-based solvent under microwave irradiation, CRSI- National seminar on Emerging trends in chemistry, Madurai Kamaraj University, Madurai, 18-20 February 2016.
17. R. Sri balan, (**Vediappen Padmini\***), Unprecedented formation of substituted urea in little modified tetrazole synthesis from secondary amide precursors, CRSI- National seminar on Emerging trends in chemistry, Madurai Kamaraj University, Madurai, 18-20 February 2016.
18. S. Ambethkar, (**Vediappen Padmini\***), Iodine -Mediated C-N and C-S bond formation: Regioselective synthesis of benzo [4,5] imidazo [2,1-b] thiazoles, CRSI-

- National seminar on Emerging trends in chemistry, Madurai Kamaraj University, Madurai, 18-20 February 2016.
19. K. Ponnuvel, (**Vediappen Padmini\***), Highly selective and efficient detection of picric acids among other nitroaromatics by NIR fluorescence organic fluorophores, National Conference on Biomaterials in medicinal Chemistry, Madurai Kamaraj University, Madurai, 21-22 December 2015.
  20. R. Sri balan, (**Vediappen Padmini\***), Biological Evaluation and molecular docking studies of tetrazoles-heterocyclic hybrids, National Conference on Biomaterials in medicinal Chemistry, Madurai Kamaraj University, Madurai, 21-22 December 2015.
  21. G. Banuppriya, R. Sri balan, (**Vediappen Padmini\***), Biological evaluation and molecular docking studies of dimethylamino curcuminoids derivatives: synthesis and characterization, National Conference on Biomaterials in medicinal Chemistry, Madurai Kamaraj University, Madurai, 21-22 December 2015.
  22. K. Ponnuvel, (**Vediappen Padmini\***), A new tetrazole based turn-on fluorescence chemosensor for imaging of Zn<sup>2+</sup> in living cells, 10th MID-Year CRSI National symposium in chemistry, NIT, Trichy, 22-23 June 2015.
  23. M. Isaivani, (**Vediappen Padmini\***), Synthesis and characterization of N-substituted 1,4-dihydropyridines and Pyrroles, National Conference on Recent Advances in Chemical Sciences Gandhigram Rural Institute-Deemed University, Gandhigram, 5 -6 March 2015.
  24. G. Banuppriya and R. Sri Balan, (**Vediappen Padmini\***), Synthesis, characterization and biological evaluation of dimethyl amino curcuminoid derivatives, National Conference on Recent Advances in Chemical Sciences Gandhigram Rural Institute-Deemed University, Gandhigram, 5 -6 March 2015.
  25. R. Sri Balan, (**Vediappen Padmini\***), Synthesis and biological evaluation of cholesteryl glycinates and cholesteryl carbonates, 16th CRSI National symposium in chemistry, IIT, Bombay, 07-09 February 2014.
  26. M. Kumar, (**Vediappen Padmini\***), Synthesis of cholesterol based imine and their antibacterial activities, National seminar on emerging trends in chemistry organized by C.P.A.College, Podinayakanur, 4 -5 October 2012.
  27. (**Padmini Tamilenthil\***), Mesomorphic achiral non-symmetrical dimers: Synthesis and Characterization, National Conference on Recent trends in energy materials, Alagappa University, Karaikudi, 10 - 11 March 2010.

28. I. S. Shashikala, C. V. Yelamaggad, (**Vediappen Padmini\***), Optically biaxial interdigitated smectic A phase: Mesomorphic dimeric bidentate ligands and their metal complexes, 14th National Conference on Liquid Crystals, Siliguri, India, 17 -19 December 2007.

29. Sulochana Nagarajan, (**Padmini Tamilenth\***), Synthesis and Characterization of banana-shaped compounds derived from 4,4' diamino sulfone, 13th National Conference on Liquid Crystals, Mysore, India, 9-11 October 2006.

#### **5.5. Any Other Publications Not Mentioned Above**

#### **6. Conferences / Seminars / Workshops / Webinars Attended**

#### **7. Details of Deposits in CCDC, PDB, etc.**

<b>No</b>	<b>Name of Deposit</b>	<b>Reference No.</b>	<b>Date of Deposition</b>
1	Sethurajan Ambethkar	1444119	
2	Sethurajan Ambethkar	1444118	
3	Isaivani Dhinakaran	1428613	
4	Sethurajan Ambethkar	1427590	
5	Isaivani Dhinakaran	1006593	
6	Sethurajan Ambethkar	1006328	