

PROFORMA FOR BIODATA

1. Name : Dr.V.RENUGA
2. Designation : Associate Professor
3. Department : Chemistry
4. Correspondence Address : 4/90-O , 17th Cross Shanmuga Nagar,Trichy-602102
5. Email and Contact number : renuugachem@nct.ac.in 8838111624
6. Date of Birth : 06.02.1972
7. Gender : Female
8. Category (Gen/SC/ST/SCA/DNC/MBC/BCM/BC) : BC
9. Whether differently abled :NIL
10. Academic Qualification

	Degree	Year	Subject	University/Institution	% of Marks
1	B.Sc	1993	Chemistry	Vellalar College for Wommen,Erode	70
2.	M.Sc	1996	Organic Chemistry	Annamalai University	73
3	M.Phil	1997	Organic Chemistry	Annamalai University	77
4	Ph.D	2002	Organic Chemistry	Bharahidasan University	Highly Commended

11. Ph.D thesis title : Study of Substituents Effects in Substituted Dibenzalacetone

Guide's Name : Dr.N.Balasubramaniyan

Institution/ University : Bharathidasan University

Year of Award :2002

12. Work Experience

S. No	Position held	Name of the Institute	From	To	Pay Scale (Rs)
1	Lecturer	Sri Nanthanam College of Engineering. Tirupathur	5-10-2001	31-5-2002	
2.	Lecturer	Sacred Heart College- Tirupathur	10-6-2002	31-5-2004	
3	Lecturer	P.S.G.R.Krishnammal College for Women-	14-6-2004	31-8-2005	

		CBE			
4	Lecture	Nehru Memorial College-Phuthunampatti	1-9-2005	31-8-2007	
5	Associate Professor	National College, Trichy.	19-12-2007	Till date.	UGC Scale

13. Professional Recognition/ Award/ Certificate/ Fellowship received by the applicant

S.No	Name of Award	Awarding Agency	Year.
1	Out standing Teacher award	National College, Tiruchirappalii, Tamil Nadu	7 th March 2020

31. Publications

S.No	Title	Authors	Journal	Volume	Page	Year
1.	Fabrication and electrochemical performance of spinel copper manganese oxide nanocomposites for supercapacitor application	K.Kiruthiga &V.Renuga	Bull. Mater. Sci.	46:98 doi.org/10.1007/s12034-023-02935-	1-12	2023
2.	Fabrication and electrochemical performance of sodium manganese oxide composite for supercapacitor application	K.Kiruthiga &V.Renuga	Journal of Materials Research	38 DOI:10.1557/s43578-023-00917-x	1658-1668	2023
3.	Enhanced electrochemical performance of manganese oxide nanocomposites for supercapacitor application	K.Kiruthiga &V.Renuga	Indian Journal of Chemical Technology	30, DOI: 10.56042/ijct.v30i5.5206	634-642	2023

4.	A facile synthesis of calcium manganese oxide for supercapacitor application	K.Kiruthiga & V.Renuga	Applied Physics A	560 doi.org/10.1007/s00339-023-06835-3	1-10	2023
5.	Exploration of Dopant and Surface Passivation on Optical and Morphological Properties of AgInS ₂ Nanocrystals	V. Renuga, C. Neela Mohan	<i>Journal of Alloys and Compounds.</i> Elsevier.	787, <i>Impact factor:</i> 3.779, DOI:10.1016/j.jallcom.2019.02.191	972-981	2019.
6.	“Synthesis and Surface Passivation of CuInS ₂ /MnS/ZnS Core-Multishell Nanocrystals, Their Optical, Structural and Morphological Characterization, and Their Bioimaging Applications”	V. Renuga, C. Neela Mohan, M. S. Mohamed Jaabir, P. Arul Prakash, M. Navaneethan	Industrial & Engineering Chemistry Research, <i>Journal of American Chemical Society.</i>	57 (46), <i>Impact factor:</i> 3.141. DOI: 10.1021/acs.iecr.8b03482	15703 - 15721	2018.
7.	Influence of Mn ²⁺ ions on Both Core/Shell of CuInS ₂ /ZnS Nanocrystals	V. Renuga, C. Neela Mohan, A. Manikandan	Materials Research Bulletin. Elsevier.	98 DOI: 10.1016/j.materresbull.2017.09.067	265-274	February, 2018
8.	“Influence of sulfur sources and solvents on the optical and morphological properties of CuInS ₂ nanocrystals by hot-injection method.	V. Renuga, C. Neela Mohan,	International Journal of Advance Engineering and Research Development	5	1-7	2018
9.	Influence of silver precursor concentration on structural, optical and morphological properties of Cu _{1-x} Ag _x InS ₂ semiconductor nanocrystals	V. Renuga, C. Neela Mohan, A. Manikandan	Journal of Alloys and Compounds. Elsevier.	729 DOI: 10.1016/j.jallcom.2017.09.078	407-417	December 2017
10.	Imidazolium based ionic liquids' structure and optical properties influenced by semiconductor metal oxide thin films	V. Renuga A. Manikandan C. Neela Mohan	Journal of Molecular Liquids. Elsevier.	244 DOI: 10.1016/j.molliq.2017.06.132	65-76	October 2017
11.	Size-controlled synthesis of chalcogen and chalcogenide	V. Renuga, A. Manikandan and	Korean J. Chem. Eng.,	33 DOI:	934–944	March 2016

	nanoparticles using protic ionic liquids with imidazolium cation	B. Meenatchi	Springer.	10.1007/s11814-015-0224-6		
12.	Protic Ionic Liquids Assisted Synthesis and Characterization of Sulfur Nanoparticles and CdS and ZnS Nanomaterials	V. Renuga and B. Meenatchi	Chemical Science Transactions. Springer.	4	577-587	2015
13.	Electrodeposition of Nickel on Glassy Carbon Electrode from Protic Ionic Liquids with Imidazolium Cation	V. Renuga, A. Manikandan and B. Meenatchi	Journal of Inorganic and Organometallic Polymers and Materials. Springer.	26 DOI 10.1007/s10904-016-0329-3	423–430	2016
14.	Antimicrobial Activity Of Imidazolium Based Protic Ionic Liquids	V. Renuga and B. Meenatchi	International Journal of Current Research	6	6238-6246	2014
15.	Comparative Study of Anilinium based Ionic liquids	V. Renuga and B. Meenatchi	International Journal of Chemical and Physical Sciences	2	1-17	Sep-Oct 2013
16.	Friedel-Craft's Benzoylation and Benzoylation Using Imidazolium Protic Ionic Liquid.	V. Renuga and B. Meenatchi	Research Journal of Chemical and Environmental Sciences	2	24-33	2014
17.	Synthesis And Characterization Of Protic Ionic Liquids With Imidazolium Cation	V. Renuga and B. Meenatchi	International Journal of Advanced Research	2	1107-1116	2014
18.	“Kinetic and Equilibrium Studies on Adsorption of Reactive Dye (Reactive Blue 4) by Low cost Nanoporous Activated Carbon Derived From Ipomoea Carnea Stem Waste”,	V. Renuga and I. Arockiya Raj	J. Environ. Nanotechnol	79-87 ISSN (Print) : 2279-0748 ISSN (Online) : 2319-554	79-87.	2013.
19.	“Effects of various Carbonization Processes in the Preparation of Nanoporous Carbon Materials using Ipomoea	V. Renuga and I. Arockiya Raj	J. Environ. Nanotechnology	3, No.2	. 09-21	2014

	Carnea Stem Waste for the Removal of Dyes from Textile Industrial Effluents”,.					
20.	“Sorption dynamics of Acid and Basic Dyes Onto Activated Carbon Derived From Ipomoea Carnea Stem Waste.	V. Renuga and I. Arockiya Raj	”, Pelagia Research Library, Der Chemica Sinica	, 5(2):	118-123	2014
21.	“Sorption dynamics of reactive and direct dyes onto activated carbon derived from ipomoea carnea stem waste”	V. Renuga and I. Arockiya Raj	Advances in Applied Science Research,	5(2):	399-404.	2014
22.	“Dynamic and Equilibrium Studies on Adsorption of Acid Dye(Acid Red 2) by Lowcost Nanoporous Activated Carbon Derived From Ipomoea Carnea Stem.	V. Renuga and I. Arockiya Raj	Indian Journal of Scholarly Research	Vol 3	Pages 4-8.	2014,
23.	“Dynamic and Equilibrium Studies on Adsorption of Direct Dye (Direct Red 28) by Lowcost Nanoporous Activated Carbon Derived From Ipomoea Carnea Stem Waste	V. Renuga and I. Arockiya Raj	Indian Journal of Applied Research.	Vol4 Issue: 7	ISSN - 2249-555X.	2014
24.	“Sorption dynamics of reactive and direct dyes onto activated carbon derived from ipomoea carnea stem waste”,	V. Renuga and I. Arockiya Raj	Advances in Applied Science Research	5(2):	, 399-404.	2014
25.	“Effect of Dopants on The Morphological, Crystalline Defect And Biological Activity of Alkali, Alkaline Earth	V. Renuga	International Journal of Advanced Research	Vol 2, Issue 5	1159-1168	2014

	And Transition Metal Ions Doped L-Histidine Single Crystals”,					
26.	Investigations on Etching, Morphology and Biological Activity of Metal ions doped L-Aspartic acid Single Crystals”.	V. Renuga	International Journal of Scientific research.	Vol-3/Issue6	ISSN-2277-8179	2014
27.	“Studies on Growth, Morphology, Spectral And Antimicrobial Properties Of Alkali, Alkaline Earth And Transition Metal Ions Doped L-Alanine Single Crystals”	V. Renuga	International Journal of Current Research	Vol. 6, Issue, 06,	7042-7048	2014
28.	“Synthesis, Characterization and Biological Activity of Pure and Metal Ions Doped L-Proline Amino Acid”,.	V. Renuga	International Journal of Scientific & Research Publications	Volume-4, Issue-7.	1-14	2014
29.	Synthesis and Characterization of Mn doped ZnO Nano particles by Chemical Precipitation Method.”,	V. Renuga & S. Udaya Kumar	Journal of Modern Chemistry and Chemical Technology.	Vol-3. Issue-2	45-53.	2012,
30.	“Structural, Optical and Thermal Studies of Cobalt Doped Hexagonal ZnO by simple Chemical Precipitation Method.”,		Journal of Chemical and Pharmaceutical research	4(2):	1271-1280.	2012,
31.	Synthesis and Characterization of Ni-doped ZnO by Chemical Precipitation method.		International Journal of Recent Scientific Research.	Vol-3, Issue-2,	118-122,	2012

h-index
i10 index
Total citations

15. Details of patents : NIL

16. Books/ Reports/Chapters/General articles etc

Title with page nos	Publication Type	Journal ISSN/ISBN No.	Refereed or Not	Sole/Co-Author
Design, Synthesis, and Properties of I-III-VI₂ Chalcogenide-Based Core-Multishell Nanocrystals Page No-29-66	Book Chapter The Editor(s) (if applicable) and The Author(s), under exclusive license to Springer Nature Switzerland AG 2020 X. Tong, Z. M. Wang (eds.), <i>Core/Shell Quantum Dots</i> , Lecture Notes in Nanoscale Science and Technology 28, https://doi.org/10.1007/978-3-030-46596-4_2	Springer Nature ISSN NO-2195-2159	Refereed Published	As a main Author
Porous Organic Polymers: Genres, Chemistry, Synthetic Strategies, and Diversified Applications	Wiley-Scrivener	Wiley-Scrivener	Refereed Published 2023	As a main Author.
Overview of comparison between Primary	Wiley-Scrivener-Ferroic Materials Based Technologies: Basics to		Refereed Accepted.2023	As a main Author.

Ferroic crystals with Secondary Ferroic crystals"	Applications ”.			
Rheology of Smart Materials in Science and Engineering Fields - An Industrial Perspective.	Apple Academic Press, CRC Press, Taylor & Francis Group, USA.	Apple Academic Press	Accepted 2023	As a main Author.

17. Research guidance

Ph.D. : Awarded : 04
Submitted : 01
On going : NIL
M.Phil. : Awarded : 06
M.Sc. Dissertation : Awarded : 20

18. List of Completed/Ongoing/Submitted projects

S. No.	Type of the Project	Title of the Project	Name of the Funding Agency	Amount (Rs.)	Duration & Status
1.	Minor Research Project	Growth, Crystal Defects and Biological Study of Various Amino acid Doped Metal Sulphates and Oxide Crystals	University Grants Commission , New Delhi, India	1,65,670.00	2011-2013 Completed

S.No	Title of the Project	Duration		Total Cost (Rs.)	Name of Funding Agency	Status
		From	To			

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(a) Major Results/ Highlights of the project including achievement(publications, patents etc.),
for *completed projects*

(b) Up-to date Technical progress report for *on-going projects*.-NIL

19. Membership

(a) Professional bodies : NIL

(b) Editorial board :

(c) Advisory board : NIL

(d) Academic bodies : NIL

20. Countries visited : NIL

21. Any other Information : : I am very much interested in doing research in QD based materials synthesis and characterization. Our College is meant for students of from middle income group. They are also interested to pursue research as their career. Due to financial constraints, they are not able to concentrate it. If you give chance for us, surely, we will go further to continue our dream. Thank you.

DECLARATION:-

I certify that the foregoing information is correct and complete to the best of my knowledge and belief.

Place:

Date:

Signature