

Curriculum Vitae

Name : **Dr.P.Krishnamoorthy**

Designation : Asst. Professor in Chemistry

Date of Birth : 21-01-1969.

Community : BC (Hindu Nadar)

Educational Qualification : **MSc.M.Phil.,M.Ed., Ph.D. in Chemistry**



B. Academic Qualification

Examinations & year	Subject	Div/ class	% of marks	School/college	Name of the board/university
X STD 1984	General	I	75.4	S.H.N.Edward Higher Secondary School, Sattur.	BOARD OF SEC. EXAMS TAMIL NADU
HSC 1986	Mathematics, Physics, Chemistry, Biology	I	60.2	S.H.N.Edward Higher Secondary School, Sattur	BOARD OF HIGHER SEC. EXAMINATIONS TAMIL NADU
B.Sc 1989	Chemistry	I	74.0	S.B.K.College, Aruppukottai	MADURAI KAMARAJ UNIVERSITY
M.Sc. 1991	Chemistry	I	62.5	V.H.N.S.N. College, Virudhunagar	MADURAI KAMARAJ UNIVERSITY
M.Phil 1995	General Chemistry	I	73.6	ANJA College, Sivakasi	MADURAI KAMARAJ UNIVERSITY
M.Ed 1994	Physical Sciences	I	64.1	Madurai kamarajUniversity, Madurai.	MADURAI KAMARAJ UNIVERSITY
Ph.D 2005	Title of PhD thesis: Studies in differential settling of Bidisperse suspensions. (Viva Date: 27-07-2005)	-	-	Anna University, Chennai.	ANNA UNIVERSITY

Total Teaching Experience :24years

Private College Experience : 14 years and 6 months

Government Service : 13 years and 1months

Experience and Course taught:

1. Handled Physical chemistry, Inorganic chemistry for M.Sc, and B.Sc chemistry classes in ***P.M.T.College, Melaneelithanallur, Sankarankovil.*** during June 1993-june 1994 (**1 year**).
2. Handled Physical chemistry, Inorganic chemistry for M.Sc. and B.Sc. chemistry classes in ***S.V.N.College, Madurai*** during June 1995- Feb 1996. (**9 months**).
3. Handled Engineering Chemistry for B.E/ B.TECH, Organic and Physical Chemistry for B.Tech(Chemical) Inorganic, Organic, Applied Chemical Technology for B.Tech(Leather Technology) in ***Priyadarshini Engineering College, Vaniyambadi*** during June 1996- May 2005 (**8 Years and 9 Months**)
4. Engineering Chemistry for B.E/ B.TECH in ***St.Joseph's College of Engineering, Chennai*** during July 2005- June 2009 (**4 years**)
5. Handling Physical chemistry, Inorganic chemistry for M.phil, M.Sc, and B.Sc chemistry and Allied chemistry classes in ***Government Arts College*** from August 2009 to onwards. (**12 years 4 months**)

Research Experience (in years) : 13 years

Details of guidance : Ph.D completed –3

M.Phil completed –4

M.Phil Pursuing – 1

Ph.D Pursuing – 2

Research Gate

RG Score : 19.82

H-index : 8

Citation : 398

Reads : 2040, Total research interest : 220.7

Date of appointment / Carrier Advancement as

- | | |
|--|---------------------|
| a. Assistant Professor (Pay Level 10) | : 09-07-2009 |
| b. Senior Assistant Professor (Pay Level 11) | : 09-07-2013 |
| c. Selection Grade Asst. Professor (Pay Level 12) | : 09-07-2018 |

Current Designation & Pay Level

**: Assistant Professor (Senior Scale) /
(Pay Level 11)**

: Associate Professor (Pay Level 13A)

b. Date of eligibility for Career Advancement

: 09-07-2021

Research Publications in International and national Journals

1.	P.Krishnamoorthy , I.Regupathy, T.Murugesan ., An Experimental study and Correlation for differential settling of Bidisperse suspensions, Journal of Chemical and Biochemical Engineering, 21 ,145-150 , (2007)., ISSN No:0352-9568, Impact Factor: 0.91.
2.	P.Krishnamoorthy* , T.Murugesan ., Development of Empirical Correlation for differential settling of Bidisperse suspensions based on Monodisperse equations covering wide range in Solid-Liquid Concentration, Oriental Journal of Chemistry ,Vol.23(3),909-917,(2007)., ISSN No:0970-020X , Impact Factor: 0.57.
3.	S.Karthikeyan, P.Krishnamoorthy , R.Rajasekaran and S.Karthik, Spectroscopic study of characterisation of commercial drug paracetamol, Journal of Acta Cienciaindica, Vol.XXXIV,(3) P.No.419-426,(2008)., ISSN No:0258-732X.
4.	P.Krishnamoorthy* , Sedimentation Model and analysis for differential settling of two-particle size suspensions in the Stokes region, International journal of sediment Research, Vol.25, No.2, pp.1-15 (2010)., ISSN No:1001-6279 , Impact Factor: 1.7 (Elsevier Publication).
5.	P.Krishnamoorthy* , Kinetics and mechanism of oxidation of Isopropylchloroacetate by Chromic acid, International Journal of Physical Chemistry Ultra Science Vol.20(3),447-454 (2008)., ISSN No:0970-9150.
6.	S. Shree Devi., P. Krishnamoorthy* ., B. Muthukumaran ., Oxidation of 5-(4'-fluorophenyl)-5-oxopentanoic Acid by Acid Permanganate ,Oxidation Communications, Vol. 37, No 2,P.No., 440–444 (2014)., ISSN No:0209-4541 , Impact Factor: 0.50.
7.	E.Porselvi, P.Krishnamoorthy* , Adsorption of direct dye brown MR from aqueous solutions by vegetable Waste, Indian research review, Vol.3, issue 4,p.no 1-4 (2012). ISSN No:0975-7430.
8.	E.Porselvi, P.Krishnamoorthy* , Adsorption removal of Rhodamine-B by agricultural Waste, Oriental international research journal of chemistry Vol.29(No. 2),719-723 (2013)., ISSN No:2028-2508 , Impact Factor: 1.21.
9.	E.Porselvi, P.Krishnamoorthy* , Removal of Acid Yellow by Agricultural Waste, International

	Journal of Material and environmental science. Vol.5, issue 2 page.No.408-415 (2014)., ISSN No:2028-2508 , Impact Factor: 1.2.
10.	Shree devi.S ,Muthukumaran.B and Krishnamoorthy.P* , Perborate oxidation of substituted 5-oxoacids in aqueous acetic acid medium: a kinetic and mechanical study, ISRN physical chemistry,Hindawi publishing corporation Volume 10.1155, Article ID 924827, page No.(1 -7) (2014)., ISSN No:2090-7761 , Impact Factor: 1.21.
11.	Shree devi.S ,Muthukumaran.B and Krishnamoorthy.P* , Vanadium (V) catalysis of perborate oxidation of substituted 5-Oxo acids in aqueous acetic acid medium: a kinetic and mechanistic study , Ionics, Springer-Verlag Berlin Heidelberg, DOI 10.1007/s11581-014-1135-y, (2014)., ISSN No:0947-7047 , Impact Factor: 1.76.
12.	S. Shree Devi, B. Muthukumaran and P. Krishnamoorthy , “Ru(III) catalysis in perborate oxidation of 5-oxo acids: A Catalytic Approach” (2014) Advances in Physical Chemistry/ Hindawi Publishing Corporation, Article ID 879608,14 pages. http://dx.doi.org/10.1155/2014/879608 , Volume (2014)., ISSN No:1687-7993.
13.	H.Jayasanthakumari ,T.K.Arumugam , P.Krishnamoorthy* , “ Adsorption of basic dye on low cost TyphaLatifoliaBioremediator Stem Carbon: Isotherm, Kinetic and Equilibrium Studies” International journal of Advance research in Science and Engineering, Vol.No.4, Issue No.01 , Page 246-256 , January (2015)., ISSN No:2319-8354(E) , Impact Factor: 1.14.
14.	H.Jayasanthakumari ,T.K.Arumugam, P.Krishnamoorthy* , “Kinetics, Thermodynamics and Isotherm studies on the Removal of Chromium by Typhalatifoliabioremediator Stem Carbon” (2015), Journal of Material and Environmental Science, 6 (6) , 1532-1541 , (2015)., ISSN No:2028-2508 , Impact Factor: 1.2.
15.	S,Shreedevi , P.Krishnamoorthy , B.Muthukumaran ., Iron (II) catalysis in perborate oxidation 5-oxo acids , International journal of Chemtech Research, Vol.7 , No.7 , pp 2902-2910 , (2015)., ISSN No:0974-4290 , Impact Factor: 0.32.
16.	H.Jayasanthakumari., P.krishnamoorthy* ., T.K.Arumugam., Removal of Rhodamine B from aqueous solution by Activated carbon prepared from the Natural plant Typhalatifolia by adsorption: Kinetic and Isotherm study, International Journal of Chemtech Research, Vol.7 ,No.7, pp 2867-2874 , (2015) ., ISSN No:0974-4290 , Impact Factor: 0.32.
17.	N. R. Rajagopalan , P. Krishnamoorthy* , Synthesis and analysis of pure and Zn ²⁺ doped Tetrakisithiourea barium chloride: Non linear optical single crystals ,International Journal of Science ,Technology & Management , Volume No:04, Special issue No.01, pp. 723-731, (2015)., ISSN No(online):2394-1537. , Impact Factor: 1.0.
18.	N. R. Rajagopalan , P. Krishnamoorthy* , Growth and characterization of pure and Ca ²⁺ doped tetrakisithiourea barium chloride : semi organic nonlinear optical crystals ,International Journal of

	Advanced Chemical Science and Applications , Volume No:03, Special issue No.01, pp. 01 – 05 , (2015)., ISSN No:2347-7601.
19.	N. R. Rajagopalan , P. Krishnamoorthy* , Spectral,Thermal,Electrical,mechanical and optical studies on pure and Mg^{2+} doped tetrakis(thiourea) barium chloride :semi organic nonlinear optical single crystals ,International Journal of Frontiers in Science and Technology , Volume No:03, Issue No.03, pp. 124 – 135 , (2015)., ISSN No:2321-0494.
20.	N.R.Rajagopalan, P. krishnamoorthy * , contemporary studies on growth and characterization of bis (thiourea) strontium chloride – A potential optoelectronic NLO material, Optik – International journal of Light and Electron Optics (Elsevier publication), Vol.127, pp.3582-3589 (2016)., ISSN No:0030-4026, Impact factor:0.742.
21.	N. R. Rajagopalan , P. Krishnamoorthy* , K.Jayamoorthy, MuthuAustaria, Bis (thiourea) strontium chloride as promising NLO material: An experimental and theoretical study ,Karbala International Journal of Modern Science, Vol 2, pp. 219 -225 (2016), doi.org/10.1016/j.kijioms.2016.08.001, (Elsevier publication),), ISSN No:2405-609X
22.	N.R.Rajagopalan, P. krishnamoorthy * , K.Jayamoorthy, A strategic approach to physico-chemical analysis of bis(thiourea) lead chloride – A reliable semi-organic nonlinear optical crystal , Optics & Laser Technology (Elsevier publication), Vol.89, pp.6-15 (2017)., ISSN No:0030-3992, doi.org/10.1016/j.optlastee.2016.10.001. Impact factor 1.879.
23.	N.R.Rajagopalan; P. krishnamoorthy * , A systematic approach to physic-chemical analysis of tris (thiourea) zinc selenate-A semi organic nonlinear optical crystal, Optik – Internationaljournal of Light and Electron Optics (Elsevier publication), Vol.129, pp.118-129 (2017)., ISSNNo:0030-4026, Impact factor:0.742.
24.	N.R.Rajagopalan; P. krishnamoorthy * , Growth and characterization of bis(thiourea) antimony tribromide -A reliable nonlinear optical crystal, Journal of Inorganic and organometallic polymers and materials (Springer publication), (DOI 10.1007/s10904-016-0472-x), Vol 27(1) (2017), pp.296-312 , ISSN : 1574-1443, Impact factor 1.308.
25.	H.Jayasanthakumari , P.Krishnamoorthy* , T.K.Arumugam, S.Radhakrishnan, D.Vasudevan, An efficient removal of crystal violet dye from waste water by adsorption onto Chitosan/TLAC composite: A novel low cost adsorbent, International journal of Biological Macromolecules, Vol.96 (2017), pp.324-333, doi.org/10.1016/ijbiomac.2016.11.077., ISSN: 0141-8130 (Elsevier Publication, Impact factor 6.95 –Thomson Reuters).
26.	N.R.Rajagopalan., P. krishnamoorthy* .,K.Jayamoorthy, Experimental and Theoretical investigations of tetrakis (thiourea) palladium chloride semi-organic non linear optical crystal: An

	approach to NLO application, Silicon (Springer), DOI: 10.1007/s12633-016-9538-1, ISSN 1876-990X.
27.	N.R. Rajagopalan, P.Krishnamoorthy* , K.Jayamoorthy, - Physicochemical Analysis of Tetrakis(thiourea) Palladium Chloride- A Prospective Nonlinear optical crystal - Journal of Inorganic and organometallic polymers and materials(Springer) (2017) 27(3): pp.739-756, Doi: 10.1007/s10904-017-0518-8, ISSN 1574-1443.
28.	N.R. Rajagopalan, P.Krishnamoorthy* , K.Jayamoorthy - Experimental and computational studies of Bis (thiourea) lead chloride: Semi-organic material for NLO applications, Silicon (Springer) Doi: 10.1007/s12633-017-9569-2, ISSN 1876-990X.
29.	N. R. Rajagopalan., P. Krishnamoorthy* , K. Jayamoorthy., P. Krishnan., Synthesis, Characterization, Nucleation Kinetics, Mechanical, Photo Conductivity, Birefringence and DFT Studies of Tris(thiourea) Zinc Selenate as Potential NLO Material, J Inorg. Organomet. Polym, (2017) 27:1199-1210, DOI 10.1007/s10904-017-0567-z, ISSN 1574-1443. (Springer Publications).
30.	N. R. Rajagopalan., P. Krishnamoorthy* , K. Jayamoorthy., S. Manikandan., Synthesis, Characterization, Thermal Analysis, Nucleation Kinetics and DFT Studies of Bis(thiourea) Antimony Tribromide as Potential NLO Material: Comparison of Experimental and Computational Studies, J Inorg Organomet Polym, (2017) 27:1457-1465, DOI 10.1007/s10904-017-0602-0, ISSN 1574-1443. (Springer Publications).
31.	T.K.Arumugam., S.Nanthini., P.Krishnamoorthy* , N.R.Rajagopalan., Evaluation of optical and mechanical parameters of Sr ²⁺ doped Tetrakis(Thiourea) Barium chloride single crystal for Nonlinear optical applications, DJ Journal of Engineering Chemistry and Fuel, Vol.2(2) (2017), pp.1-8. EISSN: 2455-5193, Doi.org/10.18813/djchem.org/2017021001.
32.	T.K.Arumugam., P.Krishnamoorthy* , R.Tamilarasan., N.R.Rajagopalan., Efficient usage of rice husk carbon and chitosan composite for adsorption of Rhodamine B from waste water, Journal of pharmaceutical, chemical and biological sciences, Vol 6(2) (2018) pp.107-121. (ISSN:2348-7658)
33.	S.Nanthini., B.Santoshkumar., P.Krishnamoorthy* , N.R.Rajagopalan., Investigation of the effect of Cd ²⁺ doping on the mechanical properties of tetrakis(Thiourea) barium chloride nonlinear optical crystal, Journal of Emerging Technologies and Innovative Research, Vol.5(11) (2018) pp.216-221. (ISSN-2349-5162).
34.	T.K.Arumugam., S.Nanthini., P.Krishnamoorthy* , N.R.Rajagopalan., D.Vasudevan., Removal of

	<p>Malachite green from aqueous solutions using a modified chitosan composites , International Journal of Biological Macromolecules, Vol.128 , 655-664, (2019), impact factor 6.95 (Elseiver Publications).</p> <p>35. K.Premlatha.,N.R.Rajagopalan.,P.Krishnamoorthy*, Contemporary studies on growth and characterization of Magnesium doped gamaGlycin- A Potential optoelectronic NLO material, Journal of Molecular structure, Vol.1240 , 130593, (2021),(Elseiver Publications).</p> <p>36. K.Premlatha.,N.R.Rajagopalan.,P.Krishnamoorthy*,T.K.Arumugam., Synthesis, nucleation kinetics,spectral,structural,mechanical and thermal studies of semiorganic barium doped gamaglycin single crystal, Journal of Material science:material electronics, {2021) https://doi.org/10.1007/s10854-021-07230-5 ,(Springer Publications).</p> <p>37. K. Kavitha and P. Krishnamoorthy* ,DESIGN AND IDENTIFY THE NOVEL PRIMAQUINE DERIVATIVES AS A POTENTIAL CANDIDATE DRUG AGAINST SELECTIVE ANTIBIOTIC-RESISTANT ORGANISMS , Rasayan J. Chem., 14(4), 2627-2638(2021) http://dx.doi.org/10.31788/RJC.2021.144651.</p> <p><u>List of papers published in international and national conferences</u></p>
1.	P.Krishnamoorthy “Fundamental Models for settling of binary suspensions” presented in the international conference onThe challenges and strategies for the sustainability of safe drinking water held at Gandhi gram Rural university, Gandhi gram, Tamilnadu, India during 25 to 27 th October 2006.
2.	P.Krishnamoorthy “Experimental study and correlations for differential settling of binary suspensions” presented in the International conference on 8 th Asian Academic Network in Environmental safety and waste management held at Anna university, Chennai, India during 10 to 13 th December 2006.
3.	P.Krishnamoorthy “IR Spectral analysis of settling of monodisperse starch suspensions” presented in the National conference on Recent Advances in Vibrational Spectroscopy held at Periyar University, Salem, Tamilnadu, India during 29 to to 30 th January 2007.
4.	P.Krishnamoorthy “Model and IR Spectral analysis of settling of same density particle in monodisperse starch suspensions with metal additives” presented in the National conference on Recent Advances in molecular structure held at Vinayaga Missions University,Palyanoor , Tamilnadu, India during 19 and 20 th July 2007.
5.	P.Krishnamoorthy “Sedimentation of polydisperse suspensions covering wide range in concentration” presented in the National conference on Frontiers of Chemistry held at SRM University,Kattankulathur,Tamilnadu,India during 24 th and 25 th january 2008.

6.	Participated Workshop on Chromatographic Techniques organized by Department of Analytical Chemistry, University of Madras, Chennai -600 025 on 25 th February 2013.
7.	Participated National Conference on Advances in Materials science (NCAMS-2008) organized by B.S.AbdurRahman Crescent Engineering College, Chennai-600 048 held during 22 and 23 rd december 2008.
8.	Participated in the National Seminar on Thrust Areas in Chemistry (STAC-2012) held at the Department of Chemistry, Government Arts College(Men), Nandanam, Chennai-600 035 on 16 th February 2012
9.	Participated National seminar on The Concepts of Green Chemistry organized by the Department of Chemistry, Valliammai Engineering College, SRM Nagar, Kattankulathur-603 203 on 16 th November 2013.
10.	E.Porselvi., P.Krishnamoorthy . Removal of hazardous Rhodamine-B from aqueous solution by Agricultural Waste, paper presented in the International Conference On Recent Trends in Engineering, Management & Computer Applications (INRTIEMC – 2012) held on 24 th February 2012 at Pallavan College of Engineering, Kanchipuram.
11.	E.Porselvi., P.Krishnamoorthy ., Utilising Agricultural Waste for dye adsorption, paper presented in the National Conference On Recent Trends in Engineering ,Management & Computer Applications (NRTIEMC – 2012) held on 23 rd and 24 th May 2012 at Pallavan College of Engineering, Kanchipuram.
12.	H.Jayasanthakumari , T.K.Arumugam , P.Krishnamoorthy , “Adsorption of Basic Dye On Low cost Typhalatifoliabioremediator Stem Carbon: Isotherm, Kinetic and Equilibrium Studies, (RACE-2014) held on 21 st November 2014 at SRM University(Guindy Campus), Chennai
13.	H.Jayasanthakumari., P.krishnamoorthy ., T.K.Arumugam., Removal of Rhodamine B from aqueous solution by Activated carbon prepared from the Natural plant Typhalatifolia by adsorption: Kinetic and Isotherm study, ICEWEST-2015, Presented paper in the International Conference held in Presidency College dated 05-02-2015 .
14.	N. R. Rajagopalan, P. Krishnamoorthy , Synthesis and analysis of pure and Zn ²⁺ doped Tetrakis thiourea barium chloride: Non linear optical single crystals , Presented paper in International Conference on Recent Trends in Engineering Science and Management, JNU convention centre, Delhi, on 15 march 2015 .
15.	Rajagopalan N.R; krishnamoorthy P , Spectral, thermal, electrical, mechanical and optical studies on pure and Mg ²⁺ doped tetrakis thiourea barium chloride: semi organic nonlinear optical single crystals, NCFCE-2015, National Conference dated 27th and 28th March on Frontiers in Chemistry and Environment held in the Department of Chemistry ,C, Abdul Hakeem College of

	Engg.&Technology, Melvisharam 632 509.
16.	Rajagopalan N.R; krishnamoorthy P , Growth and characterization of pure and Ca ²⁺ doped tetrakis thiourea barium chloride: semi organic nonlinear optical crystals, 2 nd National conference on New renaissance in chemical research (NCNR CR -2015) held at SRM university, Ramapuram, Chennai on 28th and 29th August 2015 .
17.	N.R.Rajagopalan., P.Krishnamoorthy. , Evaluation of Mechanical parameters of Zn ²⁺ doped tetra kisthiourea barium chloride single crystal, AMSN-2016, on 24th & 25th February, 2016 , Department of Physics, B.S.AbdurRahman University.
18.	N.R.Rajagopalan., P.Krishnamoorthy , Growth and characterization of pure and Sr ²⁺ doped tetrakis thiourea barium chloride: nonlinear optical crystals, National conference on recent trends in chemical sciences for energy and environment, (RTCSEE-2016) , on 1st and 2nd April 2016 , Department of Chemistry, Thanthai Hans Roever College, Perambalur.
19.	N.R.Rajagopalan., P.Krishnamoorthy. , Growth and characterization of pure and Cd ²⁺ doped tetrakis thiourea barium chloride nonlinear optical crystals, National seminar on New Trends in Chemistry (NTC-2016), on 21-22 October, 2016 , organized by Department of Chemistry, Annamalai University, Annamalai Nagar-608 002, Tamilnadu, India.
20.	N. R. Rajagopalan, P. Krishnamoorthy. , A study on the mechanical properties of magnesium doped tetrakis thiourea barium chloride single crystal, UGC-SAP, ACT & RSC Sponsered National Seminar On Recent Advances in Chemical and Environmental Research (RACE-2017) held on 20th & 21st January, 2017 , organized by Department of Chemistry (DST-FIST & UGC-SAP Sponsored) ,Annamalai University, Annamalai Nagar-608 002, Tamilnadu, India
21.	N. R. Rajagopalan, P. Krishnamoorthy. ,K.JayamoorthyAninvestigation on the growth and characterisation of pure and doped thiourea based nonlinear optical crystals, National Seminar On Recent Advances in Material Science (RAMS-2017) held on 26th January, 2017 , organized by Department of Chemistry, Immaculate College for Women, Viriyur-606402.
22.	N. R. Rajagopalan, P. Krishnamoorthy. , T.K.Arumugam, A study of the linear and nonlinear optical properties of pure and doped thiourea based single crystals, National conference on advances in functional materials (NCAFM 2017) organised by Department of Chemistry, St.Joseph's College of Engineering, Chennai-116, Tamilnadu, India.
23.	Participated two days Science Academies lecture Workshop on “ Chemistry and its new dimensions” on August 28 th and 29 th · 2017organised by the Department of Chemistry, B.S.AbdurRahmanCrescent University, Vandalur, Chennai-48.
24.	Participated the Statutory Conerences and national seminar on “Reforms in Higher Education

	Challenges and opportunities” organised by the Savitribai Phule Pune University and College Teachers Organisation (SPPUCTO) on 18 th to 20 th December 2017.
25.	Participated the one day Workshop on “Corrosion Control in Biomedical Devices” (CCBD-2018) held at Anna University ,Guindy,Chennai on January 6, 2018.
26.	N. R. Rajagopalan, P. Krishnamoorthy , K.Jayamoorthy A novel approach to the growth and characterisation of pure and metal doped thiourea based nonlinear optical crystals, Proceedings of the National Conference On Functional Materials and its Applications (NCFMA-2018) held on 28th February and 1st March 2018 , organized by Department of Chemistry, School of Basic Sciences, Vels University. Pallavaram. Chennai
27.	K.Premlatha,T.K.Arumugam, P. Krishnamoorthy , N. R. Rajagopalan “Investigation of the effect of Cd 2+ doping on the mechanical properties of Tetrakis(Thiourea) Barium Chloride nonlinear Optical Crystals , Madras University Post Centenary Diamond Jubilee 2 international Conference On Recent Trends in Analytical chemistry (ICORTAC-2018) organized by Royal society and Department of Analytical Chemistry, University of Madras, Chennai-600 025, during March 15-17, 2018.
28.	Participated in the one day Workshop on “ The Art of Preparing Manuscripts, Thesis and Project Proposals” held at the institute of Distance Education, University of Madras, Chennai on 28 th January 2020.
29.	K. Premlatha,T.K.Arumugam, P. Krishnamoorthy “Contemporary studies on growth and characterisation Bis(Hydrogen Maleate) Hexa Aqua Magnesium- a Potential Optoelectronic NLO material”,International Conference on Physics of Advanced Materials and Molecules (ICPAMM-2020) during 30 and 31 st January 2020.
30.	K.Premlatha,T.K.Arumugam, P. Krishnamoorthy , “ Growth and characterisation of new semi organic Barium Chloride doped single crystal” ,Presented in the International conference on advances in chemistry with specific reference to catalysis,sensors, drug delivery and energy materials held in the Department of Physical chemistry, School of Chemical Science, University of Madras, Guindy campus , chennai on 9 th and 10 th January 2020 (ICASEM 2020).
31.	K.Premlatha,T.K.Arumugam, P. Krishnamoorthy “Investigation of the effect of Mg 2+ doped Bis hydrogen maleate non linear crystal” ,Presented in the international web conference on Recent trends in scientific research organized in the department of Chemistry in collaboration with TNSCST, Dr.Ambedkar Government Arts College, Vyasarpadi held on 3 and 4 th August 2020.
	<u>Books Published</u>

1.	A Text Book of Engineering Chemistry by Dr.P.Krishnamoorthy .Dhanam Publications, Chennai -42,First Edition June 2008 . ISBN Number. 81-89843-19-2.
2.	A Text Book of Engineering Chemistry-I by Dr.P.Krishnamoorthy .TataMc-Graw Hill Education Private Limited,New Delhi -110 008,First Edition, 2012. , ISBN Number(13 digit). 978-0-0-7-132875-3.
3.	A Text Book of Engineering Chemistry-I by Dr.P.Krishnamoorthy .TataMc-Graw Hill Education Private Limited, New Delhi -110 008, Second Edition, 2014 ,First Reprint, 2016 ISBN Number(13 digit). 978-93-3920-550-8.

Present Working address :Asst.Professor
P.G & Research Department of Chemistry
Dr.AmbedkarGovt.ArtsCollege (Autonomous)
(Affiliated to University of Madras, Chennai)
Vyasarbadi, Chennai -600 039.

Email :krishthi@hotmail.co.uk
srikrishthi@yahoo.co.in

Contact No : + 91 9443406299

Present Post : Asst.Professor in Chemistry

Permanent Address : Door.No:8/BF1, First Floor

Anugraha Flats

Gandhi nagarFirst Main Road

Keelkattalai, Chennai-600 117

Kancheepuram District, Tamilnadu, India.

Short-term Course/Work shop

1. Attended a short-term course on“Organometallic chemistry and catalysis” under the Quality Improvement Programme of All india Council for Technical Education,New Delhi conducted during 01-09-2003 to 05-09-2003 at **Indian Institute of Science, Bangalore**, India.

• DETAILS OF TECHNICAL REVIEWER IN JOURNALS

Serving as technical Reviewer/Referee in the following journals:

1. Journal of Environmental Chemical Engineering.
2. International Research Journal of Pure and Applied Chemistry
3. American Chemical science journal.
4. International Journal of Biological macromolecules (Elsevier).
5. British journal of pharmaceutical Research
6. British Journal of Applied Science and Technology
7. Journal of Applied chemical Science International

8. International Journal of Agricultural Policy and Research
9. Industrial & Engineering Chemistry Research(ACS)
10. Journal of Science Research and Reports
11. Physical Science international Journal
12. Journal of Applied physical Science international
13. Journal of Basic and Applied Research International
14. Archives of Current Research International
15. International Research Journal of Medicine and Biomedical Science
16. Journal of Scientific Research and Reports
17. British Biotechnology Journal
18. Journal of Geography, Environment and Earth science international
19. Industrial & Engineering Chemistry Research
20. International Journal of Biochemistry Research and Review
21. Journal of Global ecology and Environment
22. International Journal of Research in Chemistry and Environment
23. Arabian journal of Chemistry (Elsevier publications)
24. Journal of Applied Research in Water and Waste Water
25. Journal of Molecular Structure (Elsevier publications)
26. Journal of Polymer and the environment (Springer Publication)
27. Journal of Polymer testing (Elsevier)
28. Polymer (Elsevier publications)
29. Journal of Fiber and Polymers

Papers Reviewed

1. A comparative Evaluation of Biological Activated Carbon and Activated Sludge Processes for the Treatment of Tannery Wastewater, Manuscript Number: JECE-D-14-00343, International Journal of Environmental Chemical Engineering.
2. Redox kinetics and Mechanism of the Oxidation of Thiourea by Diaquotetrakis(2, 2'-Bipyridine)- μ - Oxodiruthenium (III) ion ,in aqueous perchloric acid, Manuscript Number:2014_IRJPAC_11517, International Research Journal of Pure and Applied Chemistry.
3. Kinetics and Mechanism of the reaction of Malachite Green and Dithionite ion, Manuscript Number:2014_ACSj_12427, American chemical Science Journal.
4. Separation of macromolecular proteins and rejection of toxic heavymetal ions by PEI/cSMMblendUFmembranes, Manuscript Number: IJBIOMAC-D-14-00919, International Journal of Biologicalmacromolecules,
5. Conformational stability of 5-substituted orotic acid derivatives analysed by measuring ^{13}C NMR Chemical shifts and applying linear free energy relationships, manuscript number: 2014_BJPR_12541, British journal of pharmaceutical science.
6. The Electron Transfer Reaction of 3, 7-Bis (dimethylamino)phenazothionium Chloride with Benzenethiol in Aqueous Nitric Acid: A Mechanistic Approach, Manuscript Number: 2014_ACSj_11703, American Chemical Science Journal.
7. Artificial Photosynthesis Energy, Manuscript Number: IJAPR-14-132, International journal of Agriculturalpolicy and Research.
8. Effect of N-phthaloyl Chitosan on antifouling and separation performance of Polyetherimide Membranes, Manuscript Number: IJBIOMAC-D-14-01287, International Journal of Biological Macromolecules.
9. Synthesis and Studies of Diphenoin , Manuscript Number: 2014_IRJPAC_9022 ,International Research Journal of Pure and Applied Chemistry.

10. Kinetics and Mechanism of the reaction of Malachite Green and dithionite ion, Manuscript Number: 2014/IRJPAC/12428, International Research Journal of Pure and Applied Chemistry.
11. Corrosion Inhibition behaviour of Ketosulphide for mild steel in acidic acid medium, Manuscript Number: pp-1114-304, International Research Journal of Chemistry.
12. The Catalytic activity of two and three component systems introduced redox inactive metal Compounds list and additive of monodentate ligands modifiers: DMF,HMPA and phoH in selective Ethyl Benzene oxidation with dioxygen, Manuscript Number : 2014_BJAST_15778, British journal of Applied Science and Technology.
13. Application of Biological Adsorbent Materials for Removal of Harmful inorganic Contaminents from aqueous media- An overview , Manuscript number : 2014_JACSI_483, Journal of Applied Chemical Science International.
14. An selective determination Ag(I): Kinetic Catalytic effect of Ag(I) on redox reaction of Acetophenone phenyl hydrazone derivative with H₂O₂, Journal of Applied Chemical Science International.
15. Spectroscopic studies of newly synthesized Cu (II) complexes of furfural isonicotinoylhydrazone (FINH), manuscript number 2014_JACSI_609, Journal of Applied Chemical Science International.
16. Supercapacitor electrode material based on Nickel Vanadium Oxide, Manuscript Number 2014_ACSj_15866, American Chemical Science journal.
17. Bis (p-amino benzoate) bis (hexadecanoate) dicopper (II) a low temperature and thermally stable functionalmetallomesogen , Manuscript Number 2015_IRJPAC_16266, International Research Journal of Pure and Applied chemistry.
18. Study of Iron (III) oxidative electrophilic coupling reaction and its exploitation in iron (III) determination spectrophotometrically in environmental field , waters, soils and industrial effluent samples, Manuscript Number 2015_JACSI_687 , Journal of Applied Chemical Science International.
19. Water droplet condensate removal from gas channels using corrugated Walls, Manuscript Number:2015_IRJPAC_16413, International Research Journal of Pure and Applied chemistry.
20. Effects of PVP on the separation performance and antifouling property of poly (etherimide) ultrafiltration membranes, Manuscript id : 2015_004329, Industrial&Engineering Chemistry research.
21. Synthesis of new 4-(dimethyl amino benhydrazone derivatives and their cyclization to 1,3benzo-thiazin-4-one moiety, Manuscript number: 2015_ACSj_16728, American Chemical Science Journal.
22. Methanol and ethanol electro-oxidation onto platinum loaded reduced graphene oxide surface for Fuel cell applications , Manuscript Number: 2015_BJAST_16808, British Journal of Applied Science & Technology.
23. Electrochemical oxidation of Phenol using nanocrystalline Nickel ferrite electrode, Manuscript Number : 2015_JACSI_834 , Journal of Applied Chemical Science International.
24. Strategies for ensuring the performance sustainability of cirate reservoir using soft system methodology(SSM), Manuscript Number :2015_JSRR16870 , Journal of Scientific Research and Reports.
25. Kinetics of Cobalt catalysed oxidation of Acetamide by BAT, Manuscript Number: 2015_PSIJ_17005, Physical Science international Journal.
26. Evaluation of Biological Activity of some Benzimidazole derivatives as antifungal, Manuscript Number: 2015_IRJPAC_17011, International Research Journal of Pure and Applied Chemistry.
27. Analytical description of section geometric for LiNbO₃ by modeling the internal distribution of the electric field, Manuscript Number: 2015_JAPSI_715, Journal of applied physical Science International.
28. Spectral study of aggregation behavior of Remazol Brilliant Violet-5R dye in Cationic ligand solution. Manuscript Number: 2015_ACSj_17172, American Chemical Science Journal.

29. Optimization of the preparation of hydrophobic isotactic polypropylene flat sheet membrane by response surface methodology design, Manuscript Number:2015_JSRR_17277, Journal of Scientific Research and Report.
30. Synthesis of 13-Aryl-indeno (1,2-b)-naphtha[1,2-e] pyran-12(13H)-ones using $\text{Fe}(\text{ClO}_4)/\text{SiO}_2$ under solvent free condition, Manuscript Number: 2015_JOBARI_1108, Journal of Basic and Applied Research International.
31. A highly efficient green synthesis of 1H-Pyrazolo[1,2-b] phthalazine -5-10-diones catalyzed by boehmite nanoparticles, Manuscript Number:2015_JACSI_1123, Journal of Applied Chemical Science International.
32. Review of Energy and economic assessment of membrane distillation for water purification, Manuscript Number: 2015_JACSI_1169, Journal of Applied Chemical Science International.
33. Mechanism of Iodate oxidation of methylthionium chloride in acidic medium, Manuscript Number:2015_ACSj_17482, American Chemical Science Journal.
34. Adsorption and Corrosion inhibition characteristics of some Thiophene-3-carbohydrazone derivatives on low carbon steel in hydrochloric acid solutions, Manuscript Number:2015_IRJPAC_17491, International Research journal of pure and applied chemistry.
35. Polymer Additives for High Quality Coating Obtainment, Manuscript Number:2015_JACSI_1254, Journal of Applied chemical Science International.
36. Synthesis and characterization of Metal complexes of Derivative of 1,10, phenanthroline, Manuscript Number : 2015_IRJPAC_18137, International Research Journal of Pure and Applied Chemistry.
37. Corrosion inhibition behavior and adsorption characteristics of Dapsone Derivatives on mild steel in sulphuric acid solution, Manuscript Number:2015_ACSj_18211, American Chemical Science Journal.
38. Synthesis of 3, 4,5 – Trihydroxybenzohydrazone and evaluation of their Urease inhibition Potential, Manuscript Number: ARABJC – D-15-00406, Arabian Journal of Chemistry.
39. Optimization of Oxidation for the decolourisation of textile Dyes, Manuscript Number : 2015_JSRR_18280, Journal of Scientific Research and Report.
40. Spectrophotometric Study of Oxidation Kinetics and Mechanism of Losartan potassium using N-Chlorosuccinimide, Manuscript Number : 2015_IRJPAC_18332, International Research Journal Of Pure and Applied Chemistry.
41. Spectroscopic Investigation and Magnetic study of iron, Manganese, Copper and cobalt doped Hydroxyapatite Nanopowders, Manuscript Number : Ms.PSIj_18676, Physical Science international Journal.
42. Synthesis, Characterisation, Theoretical Studies and biological activities of mixed Ligand Complexes of Cr(III), Mn(II), Co(II), Ni(II) and Cu(II) with 2-Hydroxy benzaldehyde and oxalic acid, Manuscript Number:2015_ACSj_18588, American Chemical Science Journal.
43. Synthesis and Crystal structure of a linear Trinuclear Cobalt cluster with Pyridine – 2- amidoxime, Manuscript Number: Ms_JSRR_18793, Journal of scientific Research and Report.
44. Spectroscopic investigation and magnetic study of iron, Manganese, Copper and Cobalt doped Hydroxyapatite Nanopowders, Manuscript Number: Ms.PSIj_18676, physical Science International journal.
45. Synthesis and characterization of 1-Vinyl-1,2,4-Triazole functional Proton Exchange membranes (PEMs) based on interpenetrating polymer networks (IPNs) for use in polymer electrolyte membrane Fuel Cells (PEMFCs), Manuscript Number: Ms_ACSj_18669, American Chemical Science Journal.
46. Visualization Management of innovative Processes in 4D space, Manuscript Number:2015_JOBARI_1543, Journal of Basic and Applied Research International.
47. Impact of Parent Zirconia crystallinity / Amorphicity on the n-heptane isomerisation over $\text{Pt}/\text{WO}_3\text{-ZrO}_2$ catalysts, Manuscript Number:2015_BJAST_18557, British Journal of Applied Science and Technology.

48. Degradation of some resistant organic compounds during pressure decomposition with Nitric acid – Pottasium chlorate reagent solution , Manuscript Number: Ms__IRJPAC _18714 , International Research Journal of Pure and applied Chemistry.
49. Polar Diels – Alder Reactions using Heterocycles as Electrofiles- Influence of Microwave irradiation , Manuscript Number: Ms_IRJPAC_18867 , International Research Journal of Pure and applied Chemistry.
50. Synthesis and antioxidant properties of 5-ethoxy carbonyl-6-methyl-4-alkyl(aryl)-1-N-alkyl(aryl)-3,4-dihydropyrimidine -2(1H)-tione, Manuscript Number: Ms_ACSj_18894 , American Chemical Science Journal.
51. Solid dispersion based on poloxamer 188 improves the dissolution rate of trandolapril , a poorly water-soluble ACE inhibitor , Manuscript Number : Ms_BJPR-19008 , British Journal of Pharmaceutical Research.
52. Measuring Porosity of anodes in solid oxide fuel cell (SOFC) through water Archimedeans Porosimetry, Manuscript Number : Ms_IRJPAC_19114 , International Research Journal of Pure and Applied Chemistry.
53. The Mechanism study of transparent interdigitated electrodes dust removal experiment, Manuscript Number: Ms_Psij_19531, Physical Science International Journal.
54. A Novel spectrophotometric determination of carbaryl present in various environmental samples, Manuscript Number: Ms_Jacsi_1862, Journal of Applied Chemical Science International.
55. Removal of Methylene blue using cellulose nanocrystal synthesized from cotton by ultrasonic technique, Manuscript Number: Ms_Acsj_20031, American Chemical Science Journal.
56. Equilibrium, isotherm, kinetics and thermodynamic study of Cr(VI) onto soil, contaminated from waste water of textile industry, Manuscript Number: IJRCE 1117, International Journal of Research in chemistry and Environment.
57. Synthesis of new cyanuric chloride derivatives, Manuscript Number: Ms_IRJPAC_20466, International Journal of pure and applied chemistry.
58. Biocompatible, biodegradable peptides for heavy metals toxicity removal, Manuscript Number: Ms_Jacsi _1819, Journal of applied Chemical Science International.
59. phase transfer synthesis of novel based surfactants: Role of biocorrosion inhibition, Manuscript Number: Ms_JSRR _20128, Journal of Scientific Research and Report.
60. Synthesis ,characterization, antibacterial and cytotoxic assay of zinc oxide (ZnO) nanoparticles, Manuscript Number: Ms_BBJ _20260, British Biotechnology Journal.
61. Comparison of analytical technique in the characterization of complex compounds. Manuscript Number: Ms_Acsj_20257, American Chemical Science journal.
62. Electro chemical study of the corrosion behavior of mild steel with zinc complexes of 1-(8-hydroxy quinoline-2-yl)-methyl thiourea as inhibitor in sodium chloride solution, Manuscript Number: Ms_JACSI _2031, Journal of Applied chemical science international.
63. Development and validation of spectrophotometric method for the determination of picloram, Manuscript Number: Ms_Acsj_20407, American Chemical Science journal.
64. The effectiveness of bacterial consortium in bioremediation of textile waste water, Manuscript Number: 2015_JOGEE_2036, Journal of global ecology and environment.
65. Purification and characterization of endoglucanase from sorghum (*S.bicolor*) and Millet (*Pennisetum typhoides* and *Digitaria exilis*) malts, Manuscript Number: Ms_IJBcRR _20593, International journal of Biochemistry Research & Review.
66. Electrochemical determination of Carbon-Carbon double bond containing pesticide residues in environmental matrices, Manuscript Number: Ms_JOBARI _2097, Journal of Basic and Applied Research international.
67. Survey of efficiency agricultural waste as adsorbent to removal of p-cresol from aqueous solution, Manuscript Number: Ms_IRJPAC_20507, International Research journal of Pure and applied Chemistry.

68. Theoretical study of the efficiency of some nitro benzenamine derivatives in acidic medium to serve as excellent organic corrosion inhibitors of mild steel, Manuscript Number: Ms_IRJPAC_20772, International Research journal of Pure and applied Chemistry.
69. Antioxidant, antifungal and phytotoxic activities of ethyl acetate soluble fraction and purified compound from *Lonicera quinquelocularis*, Manuscript Number: Ms_IJBCRR_20811, International journal of Biochemistry Research & review.
70. Catalytic degradation of refinery petroleum waste water using complex and nanocomposite of cationic polyelectrolyte, Manuscript Number: Ms_JOBARI_2273, Journal of Basic and Applied Research international.
71. One pot synthesis of tetra substituted imidazole derivatives by condensation reaction using zeolite H-ZSM22 as heterogeneous catalyst, Manuscript Number: Ms_IRJPAC_21443, International Research journal of Pure and applied Chemistry.
72. Kinetic model fitting for anaerobic co-digestion of chibuku brewery waste with cow dung, Manuscript Number: Ms_JACSI_2292, journal of Applied Chemical Science International
73. Study of the rate of Zinc consumption during Sacrificial cathodic protection of the bottom of crude oil storage tank, Manuscript Number: Ms_JACSI_2322, Journal of Applied chemical science international.
74. Synthesis and characterisation of PEGylated reduced graphene oxide: Determination of toxicity using bone marrow mesenchymal stem cell, Manuscript Number: Ms_JACSI_2420, Journal of Applied chemical science international.
75. Development and validation of a method for the determination of moexipril in pharmaceutical preparations, Manuscript Number: Ms_JACSI_2468, Journal of Applied chemical science international.
76. Removal of BSA and HA contaminants from aqueous solution using Amphiphilic tri-block copolymer modified polyetherimide UF membrane and their fouling behaviours, Manuscript Number: 2015-03290d, Industrial & Engineering Chemistry Research.
77. Effect of PVA/PVOH concentration on characteristics of super porous hydrogel, Manuscript Number: MS_ACSj_221127, American Chemical Science Journal.
78. In vitro study of antioxidant and anticoagulant activities of ethanol extract of *pandanustectorius* leaves, Manuscript Number: MS_IBRR_22231, International Blood Research & Review.
79. A review of the legal status of strategic environmental assessment (SEA) practice of application and challenges in India, Manuscript Number: STR_JGEESI_21798, Journal of Geography, Environment and earth science International.
80. Adsorption capability of *balanite aegyptiaca* in dye removal, Manuscript Number: MS_BBT_22234, British biotechnology journal.
81. The synthesis of Atomoxetine containing carboxamides – potential human carbonic anhydrase inhibitors, Manuscript Number: MS_ACSj_22245, American Chemical Science Journal.
82. Co^{2+} , Ni^{2+} , Cu^{2+} , Zn^{2+} , Cd^{2+} and Hg^{2+} complexes butanedione hydrazones: spectroscopic thermal and biological studies, Manuscript Number: MS_ACSj_22592, American Chemical Science Journal.
83. A survey of Radiation Level associated with exposure to power – line in some selected areas in Ibadan metropolis oyo state, Nigeria, Manuscript Number: MS_PSIJ_22828, Physical science international journal.
84. Surface coating on steel pipes used in oil and gas industries – a review, Manuscript Number: MS_ACSj_22790, American Chemical Science Journal
85. Donor – C – based polymers for application in solar cells, Manuscript Number: MS_PSIj_23070, Physical Science International Journal.
86. Photo and photo fenton like catalytic degradations of Malachite green in waste water using magnetically separable ZnFe_2O_4 – reduced graphene oxide hybrid nano structures, Manuscript Number: MS_JSRR_23103, Journal of Scientific Research and Review.

87. Corrosion inhibition and adsorption properties of *prosopisjuliflora* leaves for the corrosion of milled steel in 0.1 M HCl Solution, Manuscript Number:MS_ACSj_23101, American Chemical Science Journal
88. Synthesis of new N-substituted nalidixic acid hydrazide derivatives, Manuscript Number: MS_ACSj_23144, American Chemical Science Journal.
89. Physiological effect of chromium exposure, Manuscript Number:IRJMBS-15-014, International Research Journal of Medicine and biomedical science.
90. Green synthesis and characterisation of silver nano particles using *mimuscopselengi* flower extract and its synergistic antimicrobial potential, Manuscript Number:MS_ACSj_23161, American Chemical Science Journal.
91. Spectroscopic characterization and molecular modeling of bioactive pyridine carboxylamide complexes, Manuscript Number:MS-JACSI_3016, Journal of Applied Chemical Science International.
92. Effect of mineral systems on mercury removal from aqueous solution part-2, Manuscript Number:MS_JACSI_3003, Journal of Applied Chemical Science International.
93. Synthesis of new pyrrolidine – 1,2 - dicarboxamides and investigations of their activities in the synthesis of aminonitrils, Manuscript Number:MS_ACSj_23201, American Chemical Science Journal.
94. Generation, composition and some physico chemical characteristic of municipal solid waste in Ilorin-Nigeria, Manuscript Number:MS_IRJPAC_23204, International Research Journal of Pure and Applied Chemistry.
95. Synthesis characterisation and antimicrobial activity of some transition complexes with new Schiff base derived from saccharine, Manuscript Number:MS_IRJPAC_23188, International Research Journal of Pure and Applied Chemistry.
96. Synthesis spectral and antimicrobial analysis of acetic acid catalysed semicarbazone derivatives of N-nitroso-2-(6-diphenyl piperidin – 4 – one), Manuscript Number:MS_ACRI_23187, Archives of current research international.
97. Novel theoretical estimates of the proton rest mass energy and radius, Manuscript Number:MS_PSIJ_22990, Physical Science International Journal.
98. Preparation and characterisation of some new complexes of Schiff bases derived from benzoin and glycine, Manuscript Number:MS-ACSj_23274, American Chemical Science Journal.
99. A Chito-specific, adenine binding agglutinin from *benincasahispida* shows high structural and functional stability, Manuscript Number:MS_IJBCRR_23270, International Journal of Biochemistry Research and Review.
100. Removal of acid alizarin black dye from aqua solution by adsorption using zinc oxide, Manuscript Number:MS_IRJPAC_23251, International Research Journal of Pure and Applied Chemistry.
101. Spatial assessment of water and sediment quality in Burullus lake using GIS Technique, Manuscript Number:MS_JGEESI_23311, Journal of Geography environment and earth science international.
102. Biosorption of Crystal violet from aqueous solution by pear millet powder: Isotherm modeling and kinetic study, Manuscript Number : 1038-ARWW, Journal of Applied Research in Water and Waste water.
103. Separation of Macromolecular Proteins and removal of humic acid by cellulose acetate modified UF membranes, Manuscript Number: IJBIOMAC-D-16-00361, International Journal of Biological Macromolecules.
104. Equilibrium, kinetics and isotherm studies of a carcinogenic dye removal by Aloe vera Leaves shell, Manuscript Number: JAAUBAS-D-16-00015, Journal of the Association of Arab University for Basic and Applied Sciences.

105. Fast and efficient protocol for solvent free reduction of Nitro compounds to amines with NaBH₄ in the presence of bis-Thiourea complex of Co,Ni,Cu and Zinc chlorides, Manuscript Number: JCSP-250116-11005, Journal of the Chemical Society of Pakistan.
106. Marine Seaweed gracilariacorticata Activated Carbon used for the removal of Safranin dye, Manuscript Number: JMST-2016-044, Journal of Marine science and Technology.
107. Preparation of eco-friently and low cost activated carbon from GracilariaCorticata seaweeds for the removal of Crystal Violet dye from aqueous solution, equilibrium and modeling studies, Manuscript Number:CMJS.22.03.16-6804,(C569) , Chiang Mai journal of Science.
108. Low cost ion exchangers prepared from phenolic resins with sulphonatedAbultilonindicum Linn carbon, Manuscript Number:1044-ARWW, Journal of Applied Research in Water and Waste Water.
109. Equilibrium and modeling studies for the removal of crystal violet dye from aqueous solution using eco-friendly activated carbon prepared fromSargassmWightii sea weeds, Manuscript Number: JMES-2630-2016, Journal of Material and Environmenral Science.
110. Synthesis, Spectroscopic characteristics and Calf-thymus DNA interaction of amino acid – vanillin Schiff bases,Manuscript Number: MOLSTRUC-D-16-00671, Journal of Molecular Structure.
111. Experimental and modeling studies for the removal of Crystal Violet dye from aqueous solution using eco-froendlyGracilariaCortica seaweed activated carbon/Zn/alignate polymeric composite beads, Manuscript Number: JOOE – D-16-00282, Journal of polymer and the Environment.
112. Purification and Characterization of chndroitinase ABC from Acinetobacter Sp.c26, Manuscript Number: IJBIOMAC_2016_422, International Journal of Biological Macromolecules.
113. Important aminoacid residues involved in folding and binding of protein-protein complexes. Manuscript Number: IJBIOMAC_2016_127, International Journal of Biological Macromolecules.
114. Synthesis of silver nanoparticles by sodium borohydrate reduction method: Optimisation of conditions for high antistaphylococcal activity, Manuscript Number: MS_BJPR_30324, British journal of Pharmaceutical Research.
115. Kinetic desorption models for the release of nanosilver from an experimental nanosilver coating on polystyrene food packing.Manuscript Number: IFSET_2013_190, Innovative food science and emerging Technologies (Elseiver).
116. Structure, mechanical and biological properties of hybrid fibrils obtained fromallogenetic collagens, Manuscript Number: IJBIOMAC_2016_1446, International journal of Biological Macromolecules (Elseiver).
117. Biodegradation of Cibacron Red azo dye and industrial textile effluent by pseudomonaseeruginosa immobilized on chitosan-Fe₂O₃ composite, Manuscript Number: MS_JABB_31332, Journal of advances in Biology and Biotechnology.
118. Efficacy of palm Bunch ash on the growth performance and mineral nutrient composition of phaseolvas vulgaris L.Grown in diesel oil polluted soil, Manuscript Number: MS_JALSI_31310, Journal of Applied life science international.

Total Manuscript Reviewed :131

Total Web conference Participated : 19 (Upto July 2000)

1. Five days Virtual Workshop on Analytical Instrumentation from 5th to 9th July 2020 organised by the Department of Chemistry, B.S.AbdurRahmanCrescent Institution of Science and Technology, Chennai-48.

2. Two days International Virtual Conference on Advanced Materials for energy and Environmental applications(ICAMEEA-2020) conducted during 26-27 th June 2020 at International Relationship Centre, Bharathidasan University, Tiruchirappalli, India.
3. Webinar on Lab-on-Chip Based Sensor conducted in the Department of Chemistry, Government Arts College Salem on 21/06/2020.
4. Funding Schemes and Patenting Scientific Innovations organised by Department of Chemistry, Government Arts College, Trichy on 13 th June 2020.
5. E-Workshop on solution to join CSIR-UGC NET Chemical Science Problems organised by Department of Chemistry, MuthurangamGovt.Arts College, Vellore from 17 th to 20 th June 2020.
6. Elemental Carbon for new Generation Devices conducted on 29-06-2020 in the Department of Science and Humanities, SRM TRP Engineering College, Trichy.
7. Recent Perspective in Life Sciences , Organised by the Department of Zoology ,Sri Sarada College for women, Salem on 7-7-2020.
8. Recent Advances in Applied Chemistry, Organised by the Department of Chemistry, St.Xavier's College, Palayamkottai on 11 th July 2020.
9. International Virtual Symposium on Recent Advances in Chemical Sciences during 24-25 June 2020 organised by the Department of Chemistry.
10. Rational Design and Development of Nanostructured Heterogeneous Catalysts for Energy and Environmental Applications” organized by the Department of Chemistry, ChikkaiahNaicker College, Erode, TN, India held on 27.07.2020.
11. Participated in the State Level Webinar Series, DAY 4 on the topic “Group Theory” delivered by Prof.S.Swarnalakshmi, on 25th July 2020 held in Anna Adarsh College, Chennai.
12. Participated in webinar on “Polymer - A Century of Advancement” organized by PG and Research Department of Chemistry on July 21, 2020, CHIKKANNA GOVERNMENT ARTS COLLEGE, TIRUPUR - 641 602, TAMILNADU
13. Participated in One Day Webinar on “Enticing ways to Reinvent basics of Nanoscience” organized by School of Physical sciences (SSC), St. Mary's College (Autonomous), Thoothukudi on 17th July 2020.
14. Participated in the 6 days online faculty development program on “Technical Advances in Novel Materials” organised by Physics Research Centre and Humanities and Sciences Department, St.Xavier's Catholic College of Engineering,Chunkankadai. from 05-10-2020 to 10-10-2020
15. 7- days FDP on Contemporary Amelioration in Nano Structured Materials from 21st to 27th August 2020 Organized by the Department of Science and Humanities (Physics & Chemistry), Jeppiaar Engineering college, Chennai-600119.
16. Participated in the 14-days Online Faculty Development Programme on “MATERIALS SCIENCE & NANOTECHNOLOGY (FDP-MSNT-2020)” organized by Department of Chemistry, B.S. AbdurRahman Crescent Institute of Science and Technology, Vandalur, Chennai-48, during the period 03rd August to 17th August 2020.
17. participated in the WEBINAR on “OPPORTUNITIES FOR ENGINEERS IN INDIAN SPACE PROGRAMME” organized by Department of Science & Humanities (Physics), C. Abdul Hakeem College of Engineering & Technology, Melvisharam, on 21st August, 2020.
18. participated in the Webinar on “Cost-effective Thin Film Technology for Environmental Applications”, organized by the Department of Science and Humanities (Physics), C. Abdul Hakeem College of Engineering and Technology, Melvisharam on 11th August 2020.

19. participated in National Webinar entitled “Green Solvents for Sustainable Developments and Supramolecular Coordination Chemistry” organized by Post Graduate Department of Chemistry, Sri Meenakshi Government Arts College for Women(A), Madurai- 02 held on 30.07.2020
20. Participated various conferences, Webinar, FDP during 2020-2021 and 2021-2022.

Research Activities

Research Guidance

Doctor of Philosophy

Sl.No.	Name of the student	Title of the Thesis	Year of completion
1.	Mrs.E.Porselvi	Adsorption studies on removal of dyes from aqueous solution using activated carbon prepared from agricultural waste materials.	31-08-2015
2.	Mrs.S.Shree Devi	Metal ion catalysis in perborate oxidation of 5-oxo acids.	31-08-2015
3.	N.R.RAJAGOPALAN, M.Sc., M. Phil., Ph.D-CB-JUL2014-0176	GROWTH AND CHARACTERISATION OF SOME THIOUREA BASED SEMI-ORGANIC NONLINEAR OPTICAL CRYSTALS	07.01.2019
4.	Mrs.PremLatha (Full time)	Amino acid based crystal growth and characterization	pursuing
5.	Mrs.Kavitha (Part time)	Drug Design and modeling	pursuing

Master of Philosophy

Sl.No.	Name of the student	Title of the Thesis	Year of completion
1.	Mr. S.Sanjeevi (Full Time)	Adsorption studies of rice husk activated carbon and RHAC/Chitosan composite for the removal of Rhodamine-B from aqueous solution.	2015
2.	Mr.Gnanavel (Full Time)	Adsorption studies of coconut shell carbon and CAC/Chitosan composite for the removal of Malachite green dye from aqueous solution. (Acted as Co-Guide)	2015
3.	Mrs.Punithavathy(Full Time)	Adsorption studies of Rice husk activated carbon and RHAC/Chitosan composite for the removal of Victoria blue from aqueous solution.	2017
4.	Mr.Mariappan (Part time)	Adsorption studies	pursuing

Academic Activities

1. Acted as Doctoral committee member for Ph.DDegree programme in Anna University, Madras University, Vels University.
2. Guiding M.Phil (Chemistry) in Madras University (No.D2/M.phil / GUIDE/2014/1450).
3. B Certificate Holder in NCC ,No : TN,P&A/SO/86/27531 Rank : CPL, Unit 28 (TN) BN NCC, Virudhunagar,Ncc Directorate- Tamilnadu,Pondicherry&Andamans-Madras-9. Certificate issued under the authority of Ministry of Defence,Government of India.

4. Member in ISTE
5. Participated in the **ORIENTATION COURSE** (Intensive Training Programme) from 09-07-2009 to 05-08-2009 organized by Tamilnadu State Council for Higher Education and UGC- Academic Staff college, University of Madras.
6. Participated in the UGC sponsored **REFRESHER COURSE IN CHEMISTRY** from 11.08.2011 to 31.08.2011 held in Academic Staff College, University of Madras, Chennai -5.
7. Acted as JUDGE in Department of School Education Chengalpattu Educational District Science Exhibition 2013-2014 conducted by School Education Department, Government of Tamilnadu on 25-10-2013 held at St. Theresa Hr. Sec. School, Pallavaram.
8. Acted as JUDGE in Department of School Education Chengalpattu Educational District Science exhibition 2014-2015 conducted by School Education Department, Government of Tamilnadu on 21-08-2014 held at Tambaram Grace King Girls Hr. Sec. School, Tambaram.
9. Participated in the XXVII AIFUCTO STATUTORY Conference 2013 held at Loyola Hall, St. Aloysius College (Autonomous), Mangalore, Karnataka from November 30 to December 2, 2013.
10. Participated in the XXIX Academic Conference and National Seminar on Quality in Higher Education: Issues and Challenges organized by the Punjab and Chandigarh College Teachers Union from November 14-16, 2014.
11. Participated in the state level seminar on Thrust Areas in Chemistry (STAC-2015) held at The Department of Chemistry, Government Arts College (Men), Autonomous, Nandanam, Chennai-600 035 on 12 th March 2015.
12. Participated in the XXVIII AIFUCTO STATUTORY Conference & National Seminar in New higher education policy: Challenges & Prospects 18-20 December 2015 organized by the Gujarat University Area Teachers Association (GUATA) in association with GLS University from December 18-20, 2015.
13. Acted as JUDGE in Vigyana Pradarshini Science Exhibition (2016) conducted by Sreevatsa Viswanathan Vivekananda Vidyalaya Jr. College, Chitlapakkam, Chennai- 600 064 on 24-08-2016 and 27-08-2016.
14. Acted as JUDGE in Department of School Education Kancheepuram Educational District Science Exhibition 2016 conducted by School Education Department, Government of Tamilnadu on 25-10-2016 and 26-10-2016 held at Jayagopal Karodia Matriculation Hr. Sec. School, Tambaram.
15. Editorial Board member in the International journal of chemistry and research (IJCR).
16. Participated TWO UGC sponsored **REFRESHER COURSE IN CHEMISTRY** held in Academic Staff College, Bharathiar University, Coimbatore.

17. Acted as observer in the JEE/NEET/ CUET(UG)-2022 examinations conducted by NATIONAL TESTING AGENCY.

Academic Awards

1.	Outstanding Faculty Award for the contribution and achievement in the field of CHEMISTRY based on the recommendation of Expert committee report and Apex committee ,Venus International Foundation (VIFFA 2015),Chennai-600088,Tamilnadu,India, Nomination Code: F. No./ VIFFA 2015/239, Award code : OFA / M / Sci./ Chem./ VIFFA 2015 held on 5 July 2015.
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Current interest of Research Work/ Research Area:

1. Preparation and characterization of Composite membranes used in the purification of Contaminated air, Water and fuel cells.
2. Polydispersed sedimentation of same density particle of various sizes in different fluids at low Reynolds number.
3. Spectral analysis of settling studies with metal additives in monodispersed starch suspensions.
4. Sedimentation in Environmental Studies.
5. Adsorption studies in Bio degradable biopolymer based adsorbents to remove various dyes in industrial waste and metals removal in water purification and bio samples.
6. NLO crystal Growth and characterization and its stability in oxidative atmosphere.
7. Reaction Kinetics studies using eco friendly oxidants.
8. Preparation of inorganic nano particle and its applications.
9. Green Synthesis of Silver and Zinc nano particles using Natural plants and their antiplasmodial activities, antimicrobial activity and cytotoxic effect.
