

D.D.G.D. VAISHNAV COLLEGE (AUTONOMOUS)

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| 1 | Name | Dr.R.Vasanthi |
| 2 | Designation | Assistant Professor |
| 3 | Department | PG & Research Department of Chemistry |
| 4 | Employee Id | 8000998911 |
| 5 | Date of Birth | 18.09.1973 |
| 6 | Gender | Female |
| 7 | Date of Appointment in this institution | 20.04.2009 |
| 8 | Experience in this institution | 13years 8months |
| 9 | Official Mail Id | vasanthi@dgvaishnavcollege.edu.in |
| 10 | Blood Group | A2+ |

| 11 EDUCATION DETAILS (from highest qualification): | | | | | |
|---|---------------|-------------------------|-------------------|----------------------|--------------------|
| S.No. | Degree | Institution | University | Year of study | Grade/Class |
| 1 | Ph.D. | Anna University | Anna University | 1999-2003 | |
| 2 | M.Sc | Presidency College | Madras University | 1995-1997 | First Class |
| 3 | B.Sc | Bharathi Womens College | Madras University | 1991-1994 | First Class |
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| 12 Details of ORIENTATION/REFRESHER COURSES attended: | | | | |
|--|---|-------------------------------|-----------------|--------------------------|
| S.No. | Orientation/Refresher | University/Institution | Duration | Date (from-to) |
| 1 | UGC sponsored Online Refresher Course in Chemistry | Pondicherry University | 14 days | |
| 2 | UGC sponsored Online Refresher Course in Chemistry | Madras University | 14 days | 15th July to 28th July |
| 3 | UGC-HRDC sponsored REFRESHER PROGRAMME, BATCH-XVIII | Madras University | 14 days | 20.09.2019 TO 03.10.2019 |
| 4 | SWAYAM ARPIT ONLINE COURSE CERTIFICATION- Online Refresher Course in chemistry for Higher Education Faculty | SWAYAM | 17weeks | 03.2019 |
| 5 | UGC-HRDC sponsored ORIENTATION | Madras University | 28 days | 10.05.2017 TO |

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|--|-------------------------|--|------------|
| | PROGRAMME, BATCH-129 | | 06.06.2017 |
|--|-------------------------|--|------------|

| 13 Details of SEMINARS, CONFERENCES, WORKSHOPS, FDPs etc. attended: | | | | | |
|--|---|--|---|-----------------|--------------------------|
| S.No | Type (Regional/National/International) | Theme (Workshop/Conference/Seminar/FDP) | Organized by | Duration | Date |
| 1 | National | Seminar | One day National Seminar on Recent Advances in Molecular spectroscopy,07.10.2022 | 1 Day | 07.10.2022 |
| 2 | Inter National | Webinar | Two days International webinar on Recent Advances in Chemical Sciences-RACS-2k22, 21.07.22 to 22.07.2022 | 2 Days | 21.07.2022 to 22.07.2022 |
| 3 | National | Refresher Course | UGC-HRDC sponsored Refresher Programme in Chemistry-Pondicherry University (15.07.2021 TO 28.07.2021) | 14 Days | 15.07.2021 to 28.07.2021 |
| 4 | National | Workshop | Five days online workshop on Recent Advances in chemistry Teaching and learning,22.02.2021 to 26.02.2021 | 5 Days | 22.02.2021 to 26.02.2021 |
| 5 | Inter National | Conference | First Inter National e-conference on New vistas in Chemical Research, Jan 27-28, 2021 | 2 Days | 27.01.2021 to 28.01.2021 |
| 6 | Inter National | Conference | 5th international conference on recent advances in Materials chemistry (ICRAMC-2021) 18-20 FEB 2021 | 3 Days | 18.02.2021 to 20.02.2021 |
| 7 | National | Workshop | ICT COMPETENCY FOR HIGHER EDUCATION TEACHERS 13.07.20 TO 15.07.20 | 3 Days | 13.07.2020 to 15.07.2020 |
| 8 | National | Refresher Course | FDP ON DEVELOPMENT OF MOOCS AND USING LMS MOODLE 30.6.2020 TO 4.7.20 BY MHRD | 5 Days | 30.06.2020 to 04.07.2020 |
| 9 | National | Refresher Course | FDP ON OPEN SOURCE TOOLS FOR RESEARCH , JUNE 8-14,2020, BY MHRD | 7 Days | 08.06.2020 to 14.06.2020 |
| 10 | | | FDP ON MANAGING ONLINE CLASSES AND CO-CREATING MOOCS MAY 18-JUNE 02 BY MHRD | 14 Days | 18.05.2020 to 02.06.2020 |
| 11 | Inter National | Workshop | Modern approach to chemistry and hands on training with spectroscopic problems, BWC with TNSCST | 1 Day | 24.06.2020 |
| 12 | State | Workshop | online course on A VIRTUAL CONNECTWITH GROUP THEORY 21-05.20 to 31.05.20 | 10 Days | 21.05.2020 to 31.05.2020 |
| 13 | Inter National | Webinar | PARTICIPATED IN pandemic webinar on novel functional materials for Electrochemical sensors,15 may 2020,Thaigarayar College, | 1 Day | 15.05.2020 |
| 14 | National | Refresher Course | UGC-HRDC sponsored REFRESHER PROGRAMME, BATCH-XVIII | 14 Days | 20.09.2019 to |

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| | | | (20.09.2019 TO 03.10.2019) | | 03.10.2019 |
| 15 | National | Refresher Course | SWAYAM ARPIT ONLINE COURSE CERTIFICATION-Online Refresher Course in chemistry for Higher Education Faculty | 17 weeks | March 2019 |
| 16 | National | Seminar | Participated in ELECTROCHEMICAL CORROSION AND ITS IMPACTS ON INDUSTRIES IN TAMILNADU, 8&9 March 2019 | 2 Days | 8.03.2019 to 9.03.2019 |
| 17 | National | Seminar | Presented in NANOTECHNOLOGY - THE FASCINATING WORLD OF SCIENCE, 22 Aug 2019 | 1 Day | 22.08.2019 |
| 18 | State | Workshop | Participated in WORKSHOP ON MOLECULAR DOCKING, SEP 19,2018 ,PHYSICS,DGVC | 1 Day | 19.09.2018 |
| 19 | Inter National | Conference | Presented paper in ICACCS 2018,2&3 FEB, Pachaiyappa's college | 2 Days | 02.02.2018 to 03.02.2018 |
| 20 | State | Orientation Program | UGC-HRDC sponsored ORIENTATION PROGRAMME, BATCH-129 (10.05.2017 TO 06.06.2017) | 28 Days | 10.05.2017 TO 06.06.2017 |
| 21 | Inter National | Symposium | Presented paper in 11th International symposium on Advances in Electrochemical Science and Technology, Dec 08-10,2016 | 3 Days | 8.12.2016 to 10.12.2016 |
| 22 | State | Symposium | Participated in Exploring New domains in chemistry One day symposium, by CLRI, August 12, 2013 | 1 Day | 12.08.2013 |
| 23 | State | Workshop | Training workshop on EMPOWERING TEACHERS: CURRENT TECHNOLOGY BASED EDUCATIONAL CONTENTS CREATION AND DELIVERY USING OPEN SOURCE FREE SOFTWARE organized by the department of physics ,18-20, May 2015 | 3 Days | 18.05.2015 to 20.05.2015 |
| 24 | State | Workshop | Workshop on chromatographic techniques, department of analytical Chemistry, University of Madras, 25, feb 2013 | 1 Day | 25.02.2013 |
| 25 | State | Seminar | participated in REALMS OF ELECTROCHEMISTRY, SSN Engineering college, 2 march,2013 | 1 Day | 02.03.2013 |
| 26 | Inter National | Conference | PRESENTED POSTER IN FOODS 2012-FOOD WEB: A GLOBAL CONNECT,MOP vaishnav college, 17-18 feb, 2012 | 2 Days | 17.02.2012 to 18.02.2012 |
| 27 | National | Workshop | ADVANCED ANALYTICAL TECHNIQUES FOR MATERIALS CHARACTERIZATION , 19-20 14JULY2011 BY SRM UNIVERSITY | 2 Days | 19.07.2011 to 20.07.2011 |
| 28 | Inter National | Conference | Presented poster in CHENNAI CHEMISTRY CONFERENCE FEB 11-13,217011 | 3 Days | 11.02.2011 to |

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| | | | | | 13.02.2011 |
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| 14 Details of Papers published in CONFERENCES/attended Conferences: NIL | | | | | |
|---|---|------------------------------|--|-----------------|------|
| S.No | Type (Regional/National/ International) | Name of the Conference | Name of the paper presented/Attended | Organized by | Date |
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| 15 Details of visit as a RESOURCE PERSON: NIL | | | | | |
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| S.No | Type (Guest Lectures, Workshops, Conferences Or Seminars/ Ph.D, Viva-voce Examination) | Title | Institution Name | Date | |
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| 16 Details of publication of Articles/ Chapters written in EDITED BOOKS: | | | | |
|--|---|--|---|--------------------------------|
| S.No | Book Name | Title of Articles/Chapters | Name & Address of the Publisher | Month & Year of Publication |
| 1. | Ion Conducting Materials: Theory and Applications | CELL STUDIES ON PEO: PVP: NaClO3 ELECTROLYTE SYSTEMS | S Selladurai, R Chandrasekaran, IR Mangani, R Vasanthi | 2001, ISBN-10, 8173194017. |

| 17 Details of individual/collaborative MAJOR/MINOR research project undertaken: | | | | | | |
|---|-------------------------|---|-------------------|--------------------|--------|----------|
| S.No | Title of the Project | Name & Address of the Collaborating Faculty | Funding Agency | Fund Sanctioned | Period | Duration |
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| 18 Details on RESEARCH GUIDANCE: | | | | | |
|----------------------------------|-----------------|-----------------------------|------------------------------|----------------------|----------|
| S.No | Type (FT/PT) | Name of the candidate | Title of the Dissertation | University | Status |
| 1 | PT | K.Kavitha | | Madras University | Pursuing |
| 2 | PT | N.Anuradha | | Madras University | Pursuing |

| 19 Details of papers published in JOURNALS: | | | | | | | |
|---|---------|---------|--------------|-----------------|-----|-------|--------|
| S.No | Journal | Name of | Title of the | Name of the Co- | Vol | Month | Impact |
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| | Type (National/International) | the Journal | article | authors | No, Issue No, Page Nos, ISSN No/DOI | and year of Publication | Factor/SI/Scopus (if any) |
|---|-------------------------------|---|--|---|-------------------------------------|-------------------------|---------------------------|
| 1 | Inter National | Journal of Molecular Structure | Structural characterization, spectral investigation and antimicrobial studies Of ZnWO₄ and ZnO. 9CuO. 1WO₄ nanoparticles synthesized by microwave and sucrose mediated solgel method | Kavitha Karuppiah, Kumaran Rajendran, Balakumaran Manickam Dakshinamoorthi, Augustine Arul Prasad Thomas, Vasanthi Rajaraman | 1253,132067 | 2022 | 3.841 |
| 2 | Inter National | Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy | Interaction of acridinedione dye with a globular protein in the presence of site selective and site specific binding drugs: Photophysical techniques assisted by molecular ... | Krishnan Anju, Gunasekaran Shoba, Anupurath Sumita, Manickam Dakshinamoorthi Balakumaran, Rajaraman Vasanthi, Rajendran Kumaran | 258, 119814 | 2021 | 4.098 |
| 3 | Inter National | ACS omega | Electrochemical Investigation and Molecular Docking Techniques on the Interaction of Acridinedione Dyes with Water-Soluble Nonfluorophoric Simple Amino Acids | Sumita Anupurath, Vasanthi Rajaraman, Shoba Gunasekaran, Anju Krishnan, Sangeetha Murugan Sreedevi, Seba Merin Vinod, Balakumaran Manickam Dakshinamoorthi, Kumaran Rajendran | 6, 30932-30941 | 2021 | 4.132 |
| 4 | Inter National | Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy | Competitive hydrogen bonding influences of fluorophore-urea-adenine system in water: Photophysical | A Sumita, K Anju, N Dhenadhayalan, R Vasanthi, R Kumaran | 118409 | 2020 | 4.098 |

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| | | py, | and photochemical approaches | | | | |
| 5 | Inter National | Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy | Fluorescence coupled with electrochemical approach at the bulk and the interface region of hydrogen-bonding self assemblies of urea derivatives with DDP dye in aqueous solution | G Somasundaram, V Rajaraman, V Mahalingam, N Dhenadhayalan, ... | 229, 117914 | 2020 | 4.098 |
| 6 | Inter National | ACS omega | Electrostatic Investigation of 4-Dicyanomethylene-2,6-dimethyl-4H-pyran (DDP) Dye with Amide Derivatives in Water | G Somasundaram, V Rajaraman, V Mahalingam, K Rajendran | 5, 751-757 | 2020 | 4.132 |
| 7 | Inter National | ACS omega | Fluorescence Spectral Studies on the Interaction of Alanine and Valine with Resorcinol-Based Acridinedione Dyes in Aqueous Solution: A Comparative Study with Glycine | K Anju, A Sumita, S Gayathri, R Vasanthi, K Rajendran | 4,(7),12357-12365 | 2019 | 4.132 |
| 8 | Inter National | J. Mater. Sci. Res 8, 6-17 | Spectroelectrochemical Investigation of 4-Dicyanomethylene 2, 6-Dimethyl-4H-Pyran (DDP) Dye with Guanidine Hydrochloride (GuHCl) in Water | S Gayathri, R Vasanthi, RM Vanjinathan, R Kumaran | 6-17 | 2019 | 0.52 |
| 9 | Inter National | Journal of Fluorescence | Photophysical and Electrochemical | S Gayathri, R Vasanthi, M Vanjinathan, R | 28,1379-1391 | 2018 | 2.217 |

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| | | | studies of 4-dicyanomethylene 2, 6-dimethyl-4H-pyran (DDP) dye with amides in water | Kumaran | | | |
| 10 | Inter National | Journal of Photochemistry and Photobiology A: Chemistry | Photophysical studies of a food hydrocolloid, Gum Arabic with resorcinol based acridinedione dyes in water | C Sowtharya, S Gayathri, N Dhenadayalan, R Vasanthi, M Vanjinathan, ... | 78-86 | 2017 | 4.291 |
| 11 | Inter National | Journal of Solid State Electrochemistry | Olivine-type nanoparticle for hybrid supercapacitors | R Vasanthi, D Kalpana, NG Renganathan | 12,961-969 | 2008 | 2.67 |
| 12 | Inter National | Applied Physics Letters 88 (16), 163502 | Heterojunction solar cell with 2% efficiency based on a Cu2O substrate | A Mittiga, E Salza, F Sarto, M Tucci, R Vasanthi | 88 (16),163502 | 2006 | 3.971 |
| 13 | Inter National | Ionics 11 (3-4), 208-212 | Electrochemical performance of the (Ni, Cr) doped spinel material as cathode in lithium cells | IR Mangani, R Vasanthi, S Selladurai | 11(3-4),,208-212 | 2005 | 2.817 |
| 14 | Inter National | Scripta materialia 50 (10), 1329-1333 | Comparison of bulk and pulsed laser deposited thin film of LiCo0.85Cr0.15O2 for lithium battery application | R Vasanthi, I RuthMangani, P Manoravi, M Joseph, R Kesavamoorthy, ... | 50 (10),1329-1333 | 2004 | 5.611 |
| 15 | Inter National | Solid State Ionics: The Science and Technology of Ions in Motion, 469-481 | DEVELOPMENT OF LiCo0.90Mg0.05Al0.05O2 THIN FILMS BY PULSED LASER DEPOSITION TECHNIQUE | R Vasanthi, I RuthMangani, P Manoravi, M Joseph, R Kesavamoorthy, ... | 469-481 | 2004 | 3.42 |
| 16 | Inter National | Inorganic Chemistry Communications 6 (7), 953-957 | Synthesis and characterization of non-stoichiometric compound LiCo1-x- | R Vasanthi, I RuthMangani, S Selladurai | 6(7),953-957 | 2003 | 2.495 |

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|----|----------------|--|---|--|------------------|------|-------|
| | | | yMgxAl_yO₂ (0.03 ≤ x and y ≤ 0.07) for lithium battery application | | | | |
| 17 | Inter National | Solid State Ionics: Trends in the New Millennium , 163-170 | COMPARISON OF LiCo_{0.97}Mg_{0.03}O₂ PLD FILM WITH BULK FOR THE APPLICATION OF LITHIUM MICRO-BATTERIES | R Vasanthi, I Ruth Mangani, S Selladurai, P Manoravi | 163-170 | 2002 | 3.785 |
| 18 | Inter National | Transactions of the SAEST 37 (2), 46-48 | Preparation and characterization of LiCo_{0.90}Mg_{0.05}Al_{0.05}O₂ oxides | N Poovizhi, R Vasanthi, IR MANGANI, S Selladurai | 37(2), 46-48 | 2002 | 0.125 |
| 19 | Inter National | Transactions of the SAEST 37 (2), 43-45 | Preparation and characterization of LiCo_{0.90}Cr_{0.10}O₂ oxides | R Vasanthi, IR MANGANI, S Selladurai | 37(2), 43-45 | 2002 | 0.125 |
| 20 | Inter National | Ionics 7 (1-2), 94-100 | Conductivity studies on PEO:NaClO₃ electrolyte system with different plasticizers | R Chandrasekaran, IR Mangani, R Vasanthi, S Selladurai | 7(1-2), 94-100 | 2001 | 2.817 |
| 21 | Inter National | Ionics 7 (1-2), 88-93 | Ionic conductivity and battery characteristic studies on PEO+NaClO₃ polymer electrolyte | R Chandrasekaran, IR Mangani, R Vasanthi, S Selladurai | 7(1-2), 88-93 | 2001 | 2.817 |
| 22 | Inter National | Ionics 7 (4-6), 447-450 | Synthesis and electrochemical studies of LiMn_{1-x}Cu_xO₄ cathode material | IR Mangani, R Vasanthi, R Chandrasekaran, S Selladurai, C Julien | 7(4-6), 447-450 | 2001 | 2.817 |
| 23 | National | Bulletin of Electrochemistry 17 (6), 249-252 | Study of PVA: NaClO₃ electrolyte system for battery applications | R Chandrasekaran, IR Mangani, R Vasanthi, S Selladurai | 17(6), 249-252 | 2001 | 2.925 |
| 24 | Inter National | Ionics 7 (1-2), 152-155 | Preparation and characterization of LiCo_{1-y}Cr_yO₂ ox | R Vasanthi, S Selladurai, C Julien | 7 (1-2), 152-155 | 2001 | 2.817 |

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| 25 | National | TRANSACTIONS-SOCIETY FOR THE ADVANCEMENT OF ELECTROCHEMICAL SCIENCE AND ... | Temperature Dependent conductivity studies of polymer electrolyte/Electrode Interface | IR Mangani, R Vasanthi, R Chandrasekaran, S Selladurai | 54 | 2000 | 0.125 |

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|------------------------------------|---------------------------|--|-------------------|
| Details of AWARDS received: | | | |
| S.No | Title of the Award | Awarding Agency / University / Government | Month/Year |
| 1 | Travel Grant Award | Travel grant sanctioned by DST to attend ICMAT 2007, Singapore | 07/2007 |
| 2 | RA Award | Research Associateship Award given by CSIR, New Delhi | 04/2006 |
| 3 | TRIL Award | Training and Research in Italian Laboratories Award by INTERNATIONAL CENTRE FOR THEORETICAL PHYSICS, TRIESTE | 06/2004 |
| 4 | RA Award | Research Associateship Award given by CSIR, New Delhi | 06/2004 |
| 5 | Travel Grant Award | Travel grant sanctioned by CSIR to attend ICMAT 2002, Malaysia | 12/2002 |

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|---|--|------------------------------|------------------------------|-------------|
| Details of MEMBERSHIP IN EDITORIAL BOARD/ACADEMIC AGENCIES/BODIES: NIL | | | | |
| S.No | Name of the Journal/Magazine/Agency | Position in the Board | ISBN/ISSN No.(if any) | Year |
| | | | | |

| 22 | POSITIONS HELD in this institution: | | |
|--------------|--|-------------------------------|-----------------|
| S.No. | Institution/Department Level | Position | Duration |
| 1 | Institution Level | Women Students' Forum member | 2017-2018 |
| 2 | Institution Level | Member of UGC Cell | 2020-2021 |
| 3 | Institution Level | NAAC -CRITERIA 4 Co-ordinator | 2019-2021 |
| 4 | Department Level | DGVC Chemical Society member | 2019-2021 |
| 5 | Institution Level | IQAC/NAAC Committee member | 2021-2022 |