

PROFILE



| 1. GENERAL INFORMATION: | | |
|-----------------------------------|--|--------------|
| Name (In Capital Letters) | Dr.S.PAUL MARY DEBORRAH | |
| Date of Birth (Day/Month/Year) | 25.06.1964 | |
| Age (Year/Month/Day) | 57 Years 9 Months | |
| Sex | FEMALE | |
| Fathers/Husband's Name | Mr.J.SUTHIE JEYAKUMAR | |
| Nationality | INDIAN | |
| Community | BACKWARD COMMUNITY | |
| Mother Tongue | TAMIL | |
| Correspondence Address | 68,PONNAGARAM BROADWAY MADURAI 625 016 TAMILNADU | |
| Permanent Address | 68, PONNAGARAM BROADWAY MADURAI - 625016 TAMILNADU | |
| Contact No. | Mobile No.: | 9894611494 |
| | Landline No.: | 0452-2360293 |
| Email Address | spmdeborrah@gmail.com | |

| 2. PRESENT POSITION: | | |
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| a. | Designation | Associate Professor |
| b. | Organization | The American College (AUTONOMOUS), Madurai - 2 |
| c. | Pay Scale | Rs.131400 – 217100 + 9000 (AGP) |
| d. | Date of appointment to the present post | 17.06.2008 |
| e. | Total Experience | 28 Years 10 months |

| 3. EDUCATIONAL QUALIFICATIONS | | | | | | |
|-------------------------------|----------------|-------------------------------------|------|-----------------------------|------------|--------------------|
| S.No. | Qualifications | University | Year | Subject (s) / Topics (s) | % Achieved | Distinctions Etc., |
| 1. | Ph.D. | Madurai Kamaraj University, Madurai | 1994 | Faculty of Science –Physics | | Awarded |
| 2. | M.Sc., | Madura College, Madurai | 1986 | Physics | 68.6% | I CLASS |
| 3. | B.Sc., | Sri Meenakshi Govt. College, | 1984 | Physics | 74.9% | I CLASS |

| | | Madurai | | | |
|----------------------------------|--|----------------------------------|--|--|---|
| 4. DETAILS OF EXPERIENCE: | | | | | |
| S.No. | Post held | Pay Scale | Organization | Nature of duties | Experience (In Years and Months) |
| 1. | Associate Professor in Physics (Aided) | Rs.131400 – 217100 + 9000 (AGP) | The American College, Madurai | Teaching and coordination of all academic, research, extension and administrative works in the department | From 27.9.2021 to Till date 11 months |
| 2. | Controller of Examinations | Rs.131400 – 217100 + 10000 (AGP) | Mother Teresa Women's University, Kodaikanal | All works related to UG, PG & M.Phil., examinations All works related to SET examinations. All works related to AAVIN, TNCSC, CMDA, TNCWWB entrance examinations & also consultancy works | From 27.09.2017 to 26.09.2021 4 yrs |
| 3. | Associate Professor in Physics (Aided) | Rs. 37400 – 67000 + 9000 (AGP) | The American College, Madurai | Teaching and coordination of all academic, research, extension and administrative works in the department | From 17.06.2008 to 26.09.2017 9 yrs 3 months |
| 4. | SG Lecturer in Physics (Aided) | Rs 12000-420-18300 | The American College, Madurai | Teaching, Academic, research, extension and administrative works in the department | From 17.06.2005 to 16.06.2008 3 yrs |
| 5. | Senior Lecturer in Physics (Aided) | Rs.10000-325-15200 | The American College, Madurai | Teaching, Academic, research and extension works in the department | From 17.06.2000 to 16.06.2005 5 yrs |
| 6. | Lecturer in Physics (Aided) | Rs 2200-75-2800-100-4000 | The American College, Madurai | Teaching, Academic, research and extension works in the department | From 17.06.1996 to 16.06.2000 4 yrs |
| 7. | Lecturer in Physics (Management) | Consolidated | The American College, Madurai | Teaching, Academic, research, extension works in the department | From 01.10.1993 to 16.06.1996 2 yrs 8 months |

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| 8. | Full Time Senior Research Fellow (CSIR) | Rs 2200-75-2800-100-4000 | Madurai Kamaraj University, Madurai | Research Work | 1.7.1990 to 1.7.1992 2 yrs |
| 9. | Full Time Junior Research Fellow (DoEn Project) | Rs 800 + contingency | Madurai Kamaraj University, Madurai | Research Work | 1.8.1987 to 1.8.1990 3 Years |

5. Administrative Experience

| Position | University/ Institution | Duration | | Experience (in Years & Months) | | | |
|--|--|-----------------|---------------|--------------------------------|---|---|---|
| | | From (DD/MM/YY) | To (DD/MM/YY) | Y | Y | M | M |
| | | | | | | | |
| Head of the Department | Department of Applied Science, The American College, Madurai | 01/09/2006 | 31/12/2010 | 0 | 4 | 0 | 4 |
| Head of the Department | Department of Physics, The American College, Madurai | 01/06/2013 | 26/09/2017 | 0 | 4 | 0 | 3 |
| Controller of Examinations | Mother Teresa Women's University, Kodaikanal | 27/09/2017 | 26/09/21 | 0 | 4 | 0 | 0 |
| Head of the Department | Department of Physics, The American College, Madurai | 27/09/21 | Till date | 0 | 0 | 1 | 1 |
| Total No of Years of Administrative Experience: 13 years 6 months | | | | | | | |

6. Academic Contributions:

a) Involvement with formulation of new academic programmes / innovative courses

| S. No. | Nomenclature of innovative Academic Programmes (UG/PG Level) formulated | University/ Institute implemented | Date of approval by Academic Council / Implementation | Funding agency & Quantum of grant |
|--------|---|-----------------------------------|---|---|
| 1. | B.Voc. Programme in Food Processing and Preservation | The American College, Madurai | June, 2015 | UGC sponsored (KAUSHAL KENDRAS Programme) |
| 2. | M.Sc., Physics | The American College, Madurai | May, 2015 | Self-finance Course |
| 3. | M.Sc., Food Science (SF) | The American College, Madurai | June, 2016 | Self-finance Course |

b) MoUs formulated for academic/research collaborations, faculty and students exchanges**

| S. No. | Role | Name of Agencies Departments involved | Details of MoU | Faculty and students exchange visits undertaken | Joint research projects carried out | Outcome/ achievements | Year |
|--------|-------------------------|--|---|---|-------------------------------------|--|---------|
| 1. | Convener | Mother Teresa Women's University, Kodaikanal - Global Academic Research Institute, Sri Lanka | Research, Lectures, Seminars, Conferences, Symposia etc.. | Two Faculty members attended the International Conference held at Colombo | No | International Conference on Education and Distance Learning (ICEDL), GARI Research Symposium 2019, Colombo | 3 years |
| 2. | Convener | Mother Teresa Women's University, Kodaikanal – CSM Academy International, Singapore | CSM programmes through online distance learning | No | No | Implemented | 1 year |
| 3. | Convener, MoU committee | The American College, Madurai – Win TV, Chennai | Research, Academic | Periodic visits of Faculty and students on both sides for training | Yes, Student Projects done | Training and Placements for UG Students | 5 years |
| 4. | Convener, MoU committee | The American College, Madurai – Himalaya Aqua Tech, Tanjore | Research, Academic | Yes, Periodic visits of Faculty and students on both sides for training | Yes, Student Projects done | Aqua Training for Diploma in Aqua Culture Students & Placement for trained Students. | 5 years |
| 5. | Convener, MoU committee | The American College, Madurai – Aqua World, Kanyakumari | Research, Academic | Yes, Periodic visits of Faculty and students on both the sides for training | Yes, Student Projects done | Aqua Training for Diploma in Aqua Culture Students & Placement for trained Students. | 5 years |

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| 6. | Convener, MoU committee | The American College, Madurai – Dhevanathan Estates and Plantation Pvt. Ltd., Chennai | Research, Academic | Yes, Periodic visits of Faculty and students on both the sides for training | Yes, Student Projects done | Interactive Sessions between Botany students and Planters | 5 years |
| 7. | Convener, MoU committee | The American College, Madurai – Celestial Rays, Madurai | Research, Academic | Yes, Periodic visits of Faculty and students on both the sides for training | Yes, Student Projects done | Placement for Computer Science Students | 5 years |
| 8. | Convener, MoU committee | The American College, Madurai – Empire Photovoltaic Systems Pvt.Limited, Chennai | Research, Academic | Yes, Periodic visits of Faculty and students on both the sides for training | Yes, Student Projects done | Installation of 1 KW Solar Power Systems at The American College, Madurai | 5 years |
| 9. | Convener, MoU committee | The American College, Madurai – Fantasy Group of Hotels, Madurai | Research, Academic | Yes, Periodic Interactive visits of Faculty and students on both sides for training | Yes, Student Projects done | Training for B.Voc. & M.Sc., Food Science Students | 5 years |

c) Infrastructure facilities developed/Major Departmental Projects(DST- FIST, UGC-SAP-DRS, DBT,ICSSR, ICAR etc)

| S. No. | Infrastructure details | Funding Agency with reference No. | Quantum of grant | Year | Role | Outcome |
|--------|--|--------------------------------------|------------------|---------|-------------|---|
| 1. | Instrument, Internet Connectivity, Server + Hub, Modem, Several PCs, UPS | Department of Science and Technology | 25 Lakhs | 5 Years | coordinator | Development of computer laboratory Training to UG and PG students |

d) Teaching Aids Developed

| S. No. | Role | Details of Teaching Aid | Utility | Impact | Year |
|--------|-------------------------------|---|---|---|--------------|
| 1. | Energy Science course teacher | Solar water heaters, solar dryers, solar distillation unit, solar cooker etc. | Uses of solar gadgets are taught using them | Solar projects done by UG,PG and M.Phil student | 1997 to 2011 |

e) International level Conference, Seminar, Symposium, Workshop, etc. Organized

| S. No. | Title and date | Organization and Place | Funding agency & Quantum of grant | Role | Impact |
|--------|---|--|---|------------------------------|--|
| 1. | An International Symposium "Waking, Working, Wishing, Winning: Winged Women On 9 th & 10 th March 2020 | Tamil Nadu Commonwealth International Centre and Department of English and Foreign Languages, Mother Teresa Women's University, Kodaikanal | Tamil Nadu Commonwealth, Mother Teresa Women's International Centre, Mother Teresa Women's University, Kodaikanal | Advisory Committee Member | Implemented for the benefits of Students, scholars and staff |
| 2. | Second SELTA International Conference On "English Language, World Literatures And Gender Studies" on 04 & 05 July 2019 | SELTA, Mother Teresa Women's University, Kodaikanal and Department of English, Bishop Heber College, Tiruchirapalli | South-Asian English Language & Literature Association (SELTA) | Member of Advisory Committee | Implemented for the benefits of Students, scholars and staff |
| 3. | 2 nd Bodhi International Conference on Insights and Innovations in Humanities, arts and Science (BICOHAS-2019) from 22.8.2019 to 26.8.2019 | Universiti Putra Malaysia (UPM), Kuala Lumpur, Malaysia | Department of English, Universiti Putra Malaysia (UPM), Malaysia & Bodhi International Journal of Research in Humanities, Arts and Science, India | Advisor | Implemented for the benefits of Students, scholars and staff |

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| 4. | International Conference On Innovation In English Language, Literature And Culture on 29.01.2019 | Mother Teresa Women's University, Kodaikanal | Mother Teresa Women's University, Kodaikanal | Convener | Implemented for the benefits of Students, scholars and staff |
| 5. | International Symposium on Academic Standards of Indian Education System On 10.9.2018 | Mother Teresa Women's University, Kodaikanal | Mother Teresa Women's University, Kodaikanal | Co-Patron | Implemented for the benefits of Students, scholars and staff |
| 6. | Women And Power – Challenges And Opportunities” An International Women's Conference 2017 on 20 & 21 Feb 2017 | The American college, Madurai | The American college, Madurai | Organizing Committee Member | Implemented for the benefits of Students, scholars and staff |
| 7. | International AIACHI Golden Jubilee Conference from 7.10.2016 to 11.10.2016 | The American college, Madurai | The American college, Madurai | Organizing Committee Member | Implemented for the benefits of Students, scholars and staff |
| 8. | International Conference On Women Empowerment & Social Sciences on 5 – 7 March 2015 | Centre For Women Studies, The American college, Madurai | The American college, Madurai | Program coordinator | Implemented for the benefits of Students, scholars and staff |
| 9. | International Seminar On Recent Trends On Energy Technologies on 14.08.2015 | The American college, Madurai | The American college, Madurai | Organizing Secretary | Implemented for the benefits of Students, scholars & staff |

f) Papers presented at International Level Academic or Research events

| S. No. | Title of presentation | Date | Name of the event | Organization and Place |
|--------|--|------------|---|---|
| 1. | Structural, Optical and Electrical properties of CdZnS thin film prepared with various concentration for PV cell | 22/02/2020 | International conference on Recent trends in Advanced and Functional Materials (ICRTAFM – 2K20) | PG & Research Department of Physics, Idhaya College for Women, Kumbakonam, Tamil Nadu |
| 2. | Education in Present Scenario | 17/05/2019 | 5 th International Conference on Education and Distance Learning | Global Academic Research Institute, Colombo, Sri Lanka |

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| 3. | UV Light Photo Catalytic degradation of Methyl Orange using Fe doped ZnO Thin Films | 28/01/2019 to 30/01/2019 | 5 th International Conference on Nanoscience and Nanotechnology ICONN 2019 | Department Nanotechnology, SRM Institute of Science and Technology, Chennai |
| 4. | Investigating The Improving Optical Properties of Copper Sulphide Thin Film Solar cells | 09/01/2019 | International Conference on Energy materials – 2019 (ICEM – 2019) | Department of Physics, Mother Teresa Women's University, Kodaikanal |
| 5. | Estimation of Figures of merit of Solar Cooker with Nano Carbon and Nickel Oxide coated Tray | 09/01/2019 | International Conference on Energy materials – 2019 (ICEM – 2019) | Department of Physics, Mother Teresa Women's University, Kodaikanal |
| 6. | Achieving Quality in Higher Education Under A Neo-Liberal Paradigm of Development | 12/10/2018 | International Conference on English Literature and Education | Department of Education, St. Charles College of Education, Madurai & L Ordine Nuovo Publication, Madurai |
| 7. | Effects of Social Media on The Academic Performance of Girl Students in Learning Pollution and Its Control | 08/09/2018 & 09/09/2018 | A Two day International Conference on Budding Trends in Multidisciplinary research | Department of Education, Mother Teresa Women's University, Kodaikanal |
| 8. | Optical Properties of Tin Disulphide Thin Films at Different Precursor concentration Deposited on Glass Substrate | 07/09/2017 & 08/09/2017 | International Conference of Functional Materials (ICFM) | PG and Research Department of Chemistry, Thiagarajar College, Madurai |
| 9. | Vocational Education : The Need for the Day | 27/07/2017 | International Conference on English Language, Literature and Education | Department of Education, St. Charles College of Education, Madurai & Roots International Journal of Multidisciplinary Researches, Madurai |

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| 10. | Development and Characterization of Polymer Electrolyte Based on Pectin | 10/03/2017 & 11/03/2017 | International Conference on Renewable Energy Science and Technology (ICREST-2017) | Department of Energy Science, Alagappa University, Karaikudi |
| 11. | Fictional Accounts of Encounters and Engagements in Teacher – Student Relation : Need for Character Education in Schools | 16/04/2015 | International Conference on Emerging Issues and Challenges in Education in India | Faculty of Education, Vinayaka Missions University, Puducherry & Vergal (Roots), The Educational Trust, Madurai |
| 12. | Impact of Print, Electronic and New Media on Student Community in Generating Environmental Awareness and Achievements | 05/03/2015 to 07/03/2015 | International Conference on Women Empowerment & Social Sciences 2015 | The American College, Madurai |

g) National level Conference, Seminar, Symposium, Workshop, etc. Organized

| S. No. | Title | Organization and Place | Funding agency & Quantum of grant | Role | Impact |
|---------------|---|-------------------------------|--|-----------------------|--|
| 1. | ‘VIGYAN SARVATRA PUJYATE’ Festival of SCoPE for All 22.02.2022 to 28.02.2022 | The American college, Madurai | DST, DRDO, DAE, CSIR etc | Organizing Secretary | Popularizing science among student community |
| 2. | National Conference On Strategies Of Quality Initiatives, Enhancement And Sustenance In Higher Education IQAC on 21 st & 22 nd Feb 2017 | The American college, Madurai | Funding from autonomy grant | Programme Coordinator | Improvement in the academic domain of learning and teaching fraternity |
| 3. | One day workshop On Astronomy And Astrophysics on 19.08.2016 | The American college, Madurai | Funding from autonomy grant | Convener | Improvement in the academic domain of learning and teaching fraternity |

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| 4. | One day State Level Seminar On Recent Trends in Solar Technologies on 20.2.2014 | The American college, Madurai | Funding from autonomy grant | Organizer | Improvement in the academic domain of learning and teaching fraternity |
| 5. | State Level Inter collegiate Quiz Competition - 2017 On 28.2.2017 | The American college, Madurai | Jointly By IGCAR, INS, IARP, Kalpakkam, Chennai | Convener | Improvement in the academic domain of learning and teaching fraternity |

h) Keynote address / Invited Lectures / Papers presented at National Level events

| S. No. | Title of presentation | Date | Title of event | Organized by |
|--------|---|---------------------------|---|--|
| 1. | Chief Guest- Key Note address | 17.04.2021 and 18.04.2021 | Two days Bodhi International online conference on Global Trends in English language, literature and linguistics | Department of English, Islamiah Women' Arts and Science College, Vaniyambadi and Department of English, N.M.S.Sermathai Vasan college for Women, Madurai |
| 2. | Key Note Address delivered on' Opportunities available in Career Pathway' | 19.6.2020 | Webinar on "Developing Career Pathways" | MTWU, kodaikanal and District Employment and career Guidance Centre, Dindigul |
| 3. | Inaugural Address | 06/03/2020 | Science day celebration | Science Forum, Mother Teresa Women's University, Kodaikanal. |
| 4. | Graduation Day Address | 16/02/2020 | 9th Graduation Day | Vidyaa Vikas College of Engineering and Technology, Thiruchencodu |
| 5. | Chief Guest- Key Note address | 23/01/2020 | One day International Conference on Asian Literatures in English as an Asian Language | Research Department of English, The American College, Madurai & L ORDINE NUOVO Publications, Tamil Nadu |

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| 6. | Key Note Address | 10 /10/2019 | 16th Annual sports Meet | Zion School, Kodaikanal |
| 7. | Optical characterization study of thin film for PV cell applications | 22/03/2019 | National conference on Chemistry and Materials (NCCM – 2019) | Department of Chemistry, Saveetha Engineering College, Thandalm, Chennai, Tamil Nadu |
| 8. | Study of Electrical characterization on thin films used for solar cell application | 08/02/2019 | UGC sponsored National conference on Recent trends in Material Science and its Technological Applications | Research Centre and PG Department of Physics, Jayaraj Annapackiam College for Women, Periyakulam, Tamil Nadu |
| 9. | Valedictory Address | 12/01/2019 | A One day Workshop on Writing Research Articles | Department of English and Foreign Languages, Mother Teresa Women's University, Kodaikanal and Center for Resource, Research and Publication services(CRRPS), Madurai |
| 10. | Solar Cell Materials | 23/10/2018 | Conference on Advancement and Innovation in Materials Research – CAIM 2018 | PG & Research Department of Physics, Government Arts College, Melur |
| 11. | Guest of Honour | 8th and 9th September 2018 | Two day International Conference on Budding Trends in Multidisciplinary Research, | Mother Teresa Women's University, Kodaikanal |
| 12. | Synthesis and Characterization of High efficiency low cost ultra-thin solar cell thin film | 7/09/2018 | National Conference on Advanced Material and Applications (NCAMA) | PG Department of Physics, Auxilium College, Vellore, Tamil Nadu |
| 13. | Convocation Address | 18/08/2018 | Annual Graduation | Nadar Saraswathi College of Arts and Science, Vadaputhupatti, Theni |

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| 14. | Special Address | 25/04/2018 | 11th Annual Day | Women's University college of education, Constituent college of Mother Teresa Women's University, Kodaikanal |
| 15. | Synthesis and Characterization of Co- doped Zinc Oxide thin films prepared by Spray pyrolysis | 23/02/2018 & 24.02.2018 | National Conference on Recent Advanced Materials(NCRAM 2018), Thiruvalluvar University, Vandavasi | Department of Physics, Thiruvalluvar University, Vandavasi |
| 16. | Synthesis and Characterization of Fe- doped Zinc Oxide thin films prepared by Spray pyrolysis | 23/02/2018 & 24.02.2018 | National Conference on Recent Advanced Materials(NCRAM 2018), Thiruvalluvar University, Vandavasi | Department of Physics, Thiruvalluvar University, Vandavasi |
| 17. | Preparation and Characterization of Mn doped ZnO Thin Film for Solar cell Application | 28/03/2017 | Energy FEST '17 Seminar on Advanced Technologies and Innovations in Energy and Environment | The School of Energy, Environment and Natural Resources, Madurai Kamaraj University, Madurai |
| 18. | Surface Morphology, Structural and optical Properties of ZnO films prepared by Dip coating Technique | 06/03/2017 to 08/03/2017 | 21 st National Seminar on crystal growth and applications (NSCGA – 2017) | PG and Research Department of Physics, National College(Autonomous), Tiruchirappalli |

7. RESEARCH CONTRIBUTIONS

a) Research Guidance

| S. No. | Name of the Programme | Regular/ Part-time/ Distance Education | Discipline | Status |
|--------|-----------------------|---|------------|--|
| 1. | Ph.D. | 5 | Physics | 2 (awarded) 1 (waiting for viva) 3 (under process) |
| 2. | M.Phil. | 14 | Physics | 14 (awarded) |

b) Publication: list of scholarly publications

Total Publications: 29

| S.No | Author Names | Title of Paper | Journal Title, Vol. No, Issue No. Year. | UGC Journal No. & ISSN | Impact factor (Scopus) |
|------|--|--|---|------------------------|------------------------|
| 1. | Rene Mary Amirtha.S and Paul Mary Deborrah, S | Green synthesis and characterization of Nickel oxide and Magnesium oxide Nano particles from Ruta Graveolens | Jijnasa: A Journal of the History of ideas and culture (multidisciplinary) Vol 38, No 7, 2021, pg 49 - 53 | ISSN: 0337 - 743X | |
| 2. | T.Sheeba, M.Ramani Bai and Paul Mary Deborrah, S. | Impact and Efficacy of Magnetic effect for pest management | Shodhsamhita: Journal of Fundamental & Comparative Research Vol. VII, No.2 : 2020 - 21 Pg 80 -82 | ISSN: 2277-7067 | |
| 3. | Christopher Immanual,W., Paul Mary Deborrah, S., S.S.R Inbanathan and D.Nithyaa Sree | Optical Characterization study of thin films for PV cell applications | Materials today: Proceedings, Elsevier, 36: 789 – 792 (2020) | ISSN: 2214-7853 | 0.576 |
| 4. | D.Nithyaa Sree, Paul Mary Deborrah, S., C.Gopinathan and S.S.R Inbanathan | Enhanced UV light induced photocatalytic degradation of Methyl Orange by Fe doped spray pyrolysis deposited ZnO thin films | Applied Surface Science 494 (2019) 116 - 123 | | 5.155 |

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| 5. | Christopher Immanual, W., Paul Mary Deborrah, S., S.S.R Inbanathan and D.Nithyaa Sree | Synthesis and Characterization of high efficiency low cost Solar Cell Thin Film | Material Science. Poland 37(I), 2019, pp. 127 - 135 | 4004 ISSN 2083-1331, e-ISSN 2083-134X | 0.854 |
| 6. | Christopher Immanual, W., Paul Mary Deborrah, S. and S.S.R Inbanathan | Optical Characteristic Investigation on Copper Sulphide thin film for photovoltaic Applications | International Journal of Scientific Research in Physics and Applied Sciences, Vol. 7, No.1, pp. 52-55, February 2019 | 63781& E-ISSN: 2348-3423 | 1.320 |
| 7. | Christopher Immanual, W., Paul Mary Deborrah, S., and S.S.R Inbanathan | Synthesis and Optical Characterization of Solar Cell Thin Film | International Journal of Current Research, Vol. 11, No.1, pp 83–86, January 2019. | ISSN:0975-833X | 2018: 7.749 |
| 8. | D.Nithyaa Sree, Paul Mary Deborrah, S., and S.S.R Inbanathan | Structural and Optical Properties of ZnO Thin Films Prepared by Spray Pyrolysis for Different Substrate Temperatures | International Journal of Information Research and Review, Vol. 10, No.1, pp 6031 – 6033 January 2019, | ISSN: 2349-9141 | 2018: 5.325 |
| 9. | Paul Mary Deborrah, S. and Jeba Rajasekar, R.V. | Impact of Augmented Solar Radiation on Thermal Properties of Photothermal Appliances | LFS – Literary Findings, October 2018, pp. 122 – 125. | 42329 & ISSN: 2278-2311 | 4.118 |
| 10. | Paul Mary Deborrah, S. and Jeba Rajasekar, R.V. | Assessment of Thermal Properties of Evacuated tube Integrated Solar heating devices | LFS – Literary Findings, July 2018, pp. 70 – 73. | 42329 & ISSN:2278-2311 | 4.118 |
| 11. | R.Jesintha Rani and Paul Mary Deborrah, S | Thermal Investigations on conventional and Nano fluids in solar collectors | BODHI international Journal of research in Humanities, Arts and Science, vol 2, No 3 April 2018, pp 294 - 296 | E-ISSN 2456-5571 | 1.014 |

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| 12. | Paul Mary Deborrah, S. and Jeba Rajasekar, R.V. | Generation of Thermal Profile of Evacuated tube assisted Solar air heater | LFS – Literary Findings, April 2018, pp. 48 – 51, | 42329 & ISSN:2278-2311 | 4.118 |
| 13. | G.Anbazzhagan and Paul Mary Deborrah, S | Thermal analyses on metallic and Nonmetallic Nano fluids in solar collector | ROOTS international Journal of Multidisciplinary researches, vol 4, No 3, February 2018, pp 228 - 233 | UGC approved no: 48991 ISSN 2349 - 8684 | 3.487 |
| 14. | Rene Mary Amirtha.S Paul Mary Deborrah, S & Jeba Rajasekar, R.V | Estimation of Figures of merit of Solar Cooker with Nano Carbon and Nickel Oxide coated Tray | Science Direct - Materials today proceedings-2018 | ISBN 978-0-415-87589-9 ISSN 1877-7058 | 3.481 |
| 15. | Paul Mary Deborrah, S. and Jeba Rajasekar, R.V. | Assessment of Performance characteristics of Evacuated tube assisted Solar desalination system | LFS-Literary Findings, January 2018, pp. 113 – 116, | 42329 & ISSN:2278-2311 | 4.118 |
| 16. | R.V. Jeba Rajasekhar & S. Paul Mary Deborrah | Experimental Investigations on Solar Desalination Device Integrated with Evacuated Tubes and Reflectors | An International Multidisciplinary Quarterly Research Journal AJANTA, Vol. VI, No. IV, pp. 165-168, October-December-2017 | 40776 & ISSN 2277-5730 | 4.205 |
| 17. | J. Abdul Aziz & S. Paul Mary Deborrah | Thermal Evaluation of Solar Flat Plate Collector with Shadow Effects | Shanlax International Journal of Arts, Science and Humanities, Vol 5, No 2, October 2017, pp 321 - 331 | 43960 & ISSN 2321-788X | 2.114 |
| 18. | Nalini & S. Paul Mary Deborrah | Mn Doped CdS thin films by using chemical bath deposition technique | BODHI international Journal of research in Humanities, Arts and Science, vol 2, No 1 October 2017, pp 174 - 181 | E-ISSN 2456 - 5571 | 1.014 |

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| 19. | Deepika & S. Paul Mary Deborrah | Mn Doped ZnO thin films by using chemical bath deposition technique | ROOTS international Journal of Multidisciplinary researches, vol 4, No 1 August 2017, pp 228 - 233 | ISSN 2349 - 8684 | 3.487 |
| 20. | R.Jesintha Rani and Paul Mary Deborrah, S | Thermal investigations on solar collector with nano Carbon, Aluminium Oxide and Silicon carbide coated absorbers | ROOTS international Journal of Multidisciplinary researches, vol 4, No 1 August 2017, pp 228 - 233 | ISSN 2349 - 8684 | 3.487 |
| 21. | G.Lakshmi, C.Gopinathan, S.P.M.Deborrah, Tennyson Daniel | Estimation and prediction of Global Solar Radiation at Selected cities in Tamil Nadu, India. | Journal of Advanced Physical sciences, Vol 1, Issue 1 (2017) 13-17 | ISSN 2349- 7882 | 30.917 |
| 22. | S. Paul Mary Deborrah & R.V. Jeba Rajasekhar | Source profile and Status of Sulphur Dioxide in Urban Atmospheric Environment | BODHI international Journal of research in Humanities, Arts and Science, vol 1, No 4 July 2017, pp 118 - 120 | E-ISSN 2456 - 5571 | 1.014 |
| 23. | S. Paul Mary Deborrah & R.V. Jeba Rajasekhar | Validation of Gaussian Dispersion Model in Urban Atmospheric Environment | ROOTS international Journal of Multidisciplinary researches, vol 3, No 4 May 2017, pp 291 - 292 | ISSN 2349 - 8684 | 3.487 |
| 24. | Christopher Immanual,W., Paul Mary Deborrah, S., & Samuel Selvaraj, R | Applications of cellular Automata approach for cloud simulation and rendering | Chaos: An Interdisciplinary Journal of Nonlinear Science, 24, 013125; 2014 doi:10.1063/1.4866854 | ISSN 1054- 1500 Online: ISSN 1089- 7682 | 2.415 |
| 25. | Christopher Immanual,W., Paul Mary Deborrah, S., & Samuel Selvaraj, R | Cellular automata with chaotic rule formation and its characteristics | Asia Pacific Journal of Research (A peer reviewed international Journal, Vol.1,No.7, pp.97 – 113, 2013 | Print ISSN: 2320-5504 | 0.472 |

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|-----|--|---|--|-------------------------|--------------|
| 26. | Paul Mary Deborrah, S & Muthusubramanian, P | Air borne lead in the environment of Madurai South India | Indian Journal of Environmental Protection , Vol.11, No. 11, pp. 817-821, 1991 | 20768& ISSN: 0253-7141 | Scopus & ICI |
| 27. | Muthusubramanian, P & Paul Mary Deborrah, S | Design consideration of a 32m optical path multiple reflection cell for Air pollution studies | Indian Journal of Environmental Protection, Vol. 9, No. 2, pp. 144-146, 1989 | 20768 & ISSN: 0253-7141 | Scopus & ICI |
| 28. | Muthusubramanian, P & Paul Mary Deborrah, S | Estimation of Some Metal Concentration in SPM Collected in Madurai City | Indian Journal Environmental Protection, Vol. 9, No.9, pp. 650-654, 1989 | 20768 & ISSN: 0253-7141 | Scopus & ICI |
| 29. | Paul Mary Deborrah, S | Experimental Investigations on the Thermal Characteristics of Solar Pond | Proceeding of National Conference on Renewable Energy for Rural Applications | ISBN 978-81-908283-7-6 | |

c) Books Authored / Edited

| S. No. | Publication | National Publishers | Total Numbers |
|--------|---|---------------------|---------------|
| 1 | Number of Text/ Reference Books authored as Single author / First Author (Pl. specify) | 1 | |
| 2 | Number of Text/ Reference Books authored as Co-author | 5 | 5 |
| 3 | Number of Books edited as First Editor | | |
| 4 | Number of Books edited as one of the Editors | 24 | 24 |
| 5 | Number of Conference Books edited as Single / one of the Editors (Pl. specify) | 1 | 1 |
| 6. | Chapter in Book | 4 | 4 |

d) Research Project:

| Title of the Project | Amount Sanctioned | Name of the Funding Agency | Period of Project | Year of Completion |
|---|--------------------------|---|--------------------------|---------------------------|
| Investigations of Gaseous pollutants in Madurai urban atmospheric environment and its validation to Gaussian dispersion model | Rs 3,85,000/- | UGC Minor Project No.F MRP – 5774/15(SERO/UGC) | 2015-2017 | 2017 |

e) Editor-in-Chief / Co-Editor / Associate Editor of Journals

| S. No. | Name of the Publication (Online/Print version or both with ISSN number) | Editor-in-Chief/ Co-Editor/ Associate Editor | National Publishers with no. of year(s) (A) | International publishers with no. of year(s) (B) | Total Numbers (A+B) |
|---------------|---|---|--|---|----------------------------|
| 1. | GARI International Journal of Multidisciplinary Research | Journal Editorial team member | | Global Academic Research Institute, Maharagama, Colombo, Sri Lanka 20/01/2019 | 1 |
| 2. | ROOTS International journal of Multidisciplinary Researchers 2349-8684 | Editor | | Centre for Resource, Research & Publication Services (CRRPS), INDIA from November 2017 | 1 |
| 3. | The BODHI International Journal of Research in Humanities, Arts and Science 2456-5571 | Editor | | Centre for Resource, Research & Publication Services (CRRPS), INDIA from November 2017 | 1 |
| 4. | Glacier Journal of Scientific Research | Editorial Board Member | 2349-8498 | Glacier Journal Research Foundation, Ahmedabad | 1 |
| 5. | Contemporary Education and Technology Global Scenario | Co -Editor | ISBN :978-81-92183-51-0 April 2018 | Mother Teresa Women's University, Kodaikanal | 1 |

8. National / International Academic Assignments / Exchange Programme

a) National academic assignments

| S. No. | Post/ Assignment | Organization/ University | Nature of duty and Outcome, if any | Duration | | |
|--------|--------------------------------|--|--|------------|------------|-------------------|
| | | | | From | To | In years & months |
| 1. | UGC Programme Coordinator | The American College, Madurai | Initiation of UGC Project in the college | 2015 | 2016 | 1 year |
| 2. | Convener for NAAC Criteria –II | The American College, Madurai | Related works to Criteria – II | 2016 | 2017 | 1 year |
| 3. | External Examiner | Tamil Nadu Public service Commission | Updation of question bank | 29.07.2016 | 31.07.2016 | 3 days |
| 4. | External Examiner | Thiagarajar College, Madurai | External Practical Examiner | 11.04.2017 | 12.04.2017 | 2 days |
| 5. | External Examiner | Yadava College, Madurai | External Practical Examiner | 15.03.2017 | 16.03.2017 | 2 days |
| 6. | External Examiner | Madurai Kamaraj University, Madurai | External Practical Examiner | 2013 | 2017 | 4 years |
| 7. | External Examiner | Ayya Nadar Janaki Ammal College, Sivakasi | External Practical Examiner | 2013 | 2017 | 4 years |
| 8. | External Examiner | Madurai Kamaraj University, Madurai | Paper valuation External Examiner | 22.02.2017 | 24.02.2017 | 3 days |
| 9. | External Question Paper setter | Jayaraj Annapackiam College for Women, Periyakulam | Question paper setting and valuation | 2014 | 2017 | 3 years |
| 10. | External Question Paper setter | The Madura College, Madurai | Question paper setting and valuation | 2014 | 2017 | 3 years |
| 11. | External Question Paper setter | Scott Christian College, Nagercoil | Question paper setting and valuation | 2014 | 2017 | 3 years |

| | | | | | | |
|-----|--------------------------------|--|--|------------|------------|---------|
| 12. | External Question Paper setter | Manonmaniam Sundaranar University, Tirunelveli | Question paper setting and valuation | 2015 | 2017 | 3 years |
| 13. | Ph.D. Level Examiner | Madurai Kamaraj University, Madurai | Adjudicator and Ph.D. External Examiner for Mr.S.Palanichamy | 24.2.2020 | 09.03.2020 | 15 days |
| 14 | Ph.D. Level Examiner | Bharathidasan University, Trichy | Ph.D. External Examiner for Mrs K.Aswaniya | 05.04.2022 | 09.05.2022 | 1 month |

b) Countries visited for academic interaction, part of delegation, etc

| S. No. | Organization/ University Visited | Nature of duty | Outcome | Period | Country |
|--------|---|--|---|-------------------------|-----------------------|
| 1. | Universiti Putra Malaysia (UPM), Malaysia | Resource person in Research Methodology Workshop | Interaction with researchers from other countries | 10th April 2019 One day | Malaysia |
| 2. | GARI Research Symposium 2019, Colombo | Key Note address | Interaction with researchers from other countries | 17th May 2019 | Maharagama Sri Lanka. |

9. POST(S) & RESPONSIBILITIES HELD:

| S.No. | Post | Organization/University | Duration | | Experience(In Years and Months) |
|-------|--------------------------------------|---|------------|------------|---------------------------------|
| | | | From(Date) | To (Date) | |
| 1. | Chairperson, Board of Studies | Department of Physics, The American College, Madurai | March 2015 | March 2017 | 2 years |
| 2. | Member, Board of Studies | 1. UG & PG Department of Physics, The American College, Madurai | March 1994 | March 2017 | 24 years |
| | | 2. Diploma Course in Food processing and Preservation, Community College (UGC Sponsored), The American College, Madurai | March 2015 | March 2017 | 2 years |
| | | 3. PG Department of Food Science, The American College, Madurai | March 2015 | March 2017 | 2 years |
| | | 4. PG Department of Environmental Science, The American College, Madurai | March 2015 | March 2016 | 1 year |
| | | 5. UG & PG Department of physics, Jeyaraj Annapackiam College for Women, Periyakulam | March 2016 | March 2017 | 1 year |

| | | | | | |
|----|--|---|--------------------------------------|---|--|
| 3. | Member of Academic Council | 1.The American College, Madurai 2.Mother Teresa Women's University, Kodaikanal | May 1994 May 2018 | May 2017 May 2021 | 24 years 4 years |
| 4. | Member of Professional/ Academic Bodies | 1. Life Member in the 'Society of Innovative Researchers and Academicians (SIRA), Kottayam, Kerala. 2. Advisory Board Member, Global Academic Research Institute, Maharagama, Colombo 3. Collaborative Member, India Based Neutrino Observatory Project | Dec 2018 Aug 2018 2013 | Till date Till date Till date | 3 Years 3 yrs 4 months 8 years |
| 5. | Others (Specify) | 1. Controller of Examinations, Mother Teresa Women's University, Kodaikanal 2. Purchase committee member, Mother Teresa Women's University, Kodaikanal | 27/09/2017 27/09/2017 | 26/09/2021 26/09/2021 | 4 years 4 years |

10. CONSULTATION EXPERIENCE

| S. No. | Client/Organization's Name | Nature of Assignment | Duration | Outcome | Value (Rs. in lakhs) |
|--------|----------------------------|--|----------|--|----------------------|
| 1. | AAVIN, Chennai | Conducting entrance exams for the post of Manager, Deputy Managers | 3 Months | Exams were conducted and results were handed over to AAVIN, Chennai | 8 Lakhs |
| 2. | State Eligible Test -2018 | Conducting Eligibility test for Assistant Professor post in colleges | 6 months | Exams were conducted and the eligible candidate list was prepared and the certificates were issued | 50 lakhs |
| 3. | TNCWWB, Chennai | Conducting entrance exams for the post of Junior Assistants and Data Entry Operators | 6 months | Exams were conducted and results were handed over to TNCWWB, Chennai | 120 lakhs |
| 4. | TNCSC, Chennai | Conducting entrance exams for the post of Assistant Engineers (Civil, Mechanical, Electrical & Computer) | 3 months | Exams were conducted and results were handed over to TNCSC, Chennai | 74.0 lakhs |
| 5 | CMDA, Chennai | Conducting entrance exams for the post of Junior Assistants, Stenographers and Typists | 3 months | Exams were conducted and results were handed over to CMDA, Chennai | 81.19 lakhs |

| | | | | | |
|-----|------------------------|--|---------|--|------------|
| 6 | AAVIN, Namakkal | Conducting entrance exams for the post of Deputy Manager (Dairying, DB, DC), SFA, Managers (Admin, Finance, Marketing), Extension Officers (Grade II), Personal Secretary (Grade III), Executives, Junior Executives | 1 month | Exams were conducted and results were handed over to AAVIN, Namakkal | 3.25 lakhs |
| 7. | AAVIN, Pudukkottai | Conducting entrance exams for the post of Manager (Admin), Manager (Engineering) & Senior Factory Assistant | 1 month | Exams were conducted and results were handed over to AAVIN, Puthukottai | 2.79 lakhs |
| 8. | AAVIN, Virudhunagar | Conducting entrance exams for the post of Manager (Engineering) | 1 month | Exams were conducted and results were handed over to AAVIN, Virudhunagar | 1.7 lakhs |
| 9 | AAVIN, Coimbatore | Conducting entrance exams for the post of Manager (Veterinary, civil, Transport, F & F, Marketing), Deputy Manager(Dairying, DB, DC), Private Secretary (Grade III) & Executive (civil) | 1 month | Exams were conducted and results were handed over to AAVIN, Coimbatore | 9.82 lakhs |
| 10. | AAVIN, Dindugul | Conducting entrance exams for the post of Manager (Veterinary, Marketing), Extension Officers (Grade II), Personal Secretary (Grade III), Executive & Junior Executive | 1 month | Exams were conducted and results were handed over to AAVIN, Dindugul | 1.38 lakhs |
| 11. | AAVIN, Namakkal | Conducting entrance exams for the post of Manager (Engineering) | 1 month | Exams were conducted and results were handed over to AAVIN, Namakkal | 1.91 lakhs |

11. Awards / Fellowships / Prizes / Recognition for outstanding contributions**International**

| S. No. | Name of Award | Awarded by | Year |
|--------|-----------------------------|--|------|
| 1. | Editor of Excellence-2020 | Roots International Journal of Multidisciplinary Researches | 2020 |
| 2. | Best Senior Professor Award | BODHI International academic and Research Excellence Awards - 2021 | 2021 |


National

| S. No. | Name of Award | Awarded by | Year |
|--------|--|---|------|
| 1. | Dr.Sarvepalli Radhakrishnan Distinguished Academic Leader Award 2021 | Center for Professional advancement Continuous Education, Vijayawada | 2021 |
| 2. | Dr.Sir .C.V.Raman Social Scientist National Award 2019 | Bahujana Ashitya Academy, Hyderabad | 2019 |
| 3. | Bharat Excellence Award | Friendship Forum, New Delhi | 2019 |
| 4. | Leading Educationist of India Award | Friendship Forum, New Delhi | 2019 |
| 5. | Best Indian Golden Personalities Award 2019 | Friendship Forum, New Delhi | 2019 |
| 6. | One among the Best Controller of Examination in the Country | GRABS Educational Charitable Trust, Chennai | 2019 |
| 7. | Distinguished Women in Science | Venus International Foundation – Center for Advanced Research and Design, Chennai | 2019 |
| 8. | Outstanding Service in Administration | GRABS Educational Charitable Trust, Chennai | 2018 |
| 9. | Adarsh Vidya Saraswat Rastriya Puraskar Award | Global Management Council, Ahmedabad | 2018 |

State / University

| S. No. | Name of Award | Awarded by | Year |
|--------|--|---------------------------|------|
| 1. | Best Women Associate Professor Award in the field of Physics | PEARL Foundation, Madurai | 2017 |

I, hereby, declare that all the statements/particulars made/furnished here are true and correct to the best of my knowledge and belief



(Signature)