

Dr.DAVID JEREIL S

Assistant Professor,
Department of Physics,
Bishop Heber College,
Tiruchirappalli - 17.

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Qualification

| Degree | Branch | Institution / University | Year of Passing |
|----------------------|---------|--------------------------|-----------------|
| Doctor of Philosophy | Physics | Bishop Heber College | 2019 |
| Master of Philosophy | Physics | Bishop Heber College | 2013 |
| Master of Science | Physics | Bishop Heber College | 2012 |
| Bachelor of Science | Physics | Bishop Heber College | 2010 |

Ph.D. Details

| Title of Thesis | Area of Specialization | Research Supervisor | Research Centre | Year of Award |
|--|------------------------|---------------------|----------------------|---------------|
| INVESTIGATION OF H ₂ O ₂ SENSING PERFORMANCE OF HYBRID THIN FILM NANOCOMPOSITE Pd-MnO ₂ /MWCNT/TiO ₂ ELECTRODE FABRICATED BY NOVEL TWO STEP DEPOSITION | Materials Science | Dr. K. Vijayaraj | Bishop Heber College | August 2019 |

Additional Qualification

| Name of Course | Place of Study | Date | Duration |
|---------------------------------|----------------|-------------|----------|
| Diploma in Computer Application | Thanjavur | August 2002 | 4 months |

Work Experience

| Name of Institution | Address of Institution | Designation | From | To |
|----------------------|------------------------|---------------------|------------|------------|
| Bishop Heber College | Tiruchirappalli 620017 | Project assistant | 09-09-2014 | 31-06-2017 |
| Bishop Heber College | Tiruchirappalli 620017 | Assistant Professor | 10-06-2019 | |

Teaching / Research Experience

U.G. : 4 year

P.G. : 4

M.Phil.

Ph.D.

Table of Contents

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| 1. | Conferences / workshops / Seminars Attended | 20 |
| 2. | Research Papers Presented | 2 |
| 3. | Publication in Journals | 3 |
| 4. | Publication in Books | 0 |
| 5. | Books Published / Edited | 0 |
| 6. | Conferences / Workshops / Seminars Organised | 0 |
| 7. | Research Projects | 0 |
| 8. | Resource Person | 0 |
| 9. | Consultancy | 0 |
| 10. | Awards Recieved | 0 |
| 11. | Patent | 0 |
| 12. | Extension Activities Undertaken | 0 |
| 13. | Professional Membership | 0 |
| 14. | M.Phil. / Ph.D. Produced | 0 / 0 |

1. International level Conference on **"International Conference on Application of Basic Sciences (ICABS-2019)"** sponsored by Bishop Heber College, Tiruchirappalli organized by Bishop Heber College, Tiruchirappalli at Bishop Heber College, Tiruchirappalli during 19/11/2019 to 21/11/2019.
2. College level Orientation on **"Capacity Building Programme"** sponsored by Bishop Heber College, Tiruchirappalli organized by Internal Quality Assurance Cell (IQAC), Bishop Heber College, Tiruchirappalli at Bishop Heber College, Tiruchirappalli during 31/08/2019 to 31/08/2019.
3. College level Refresher on **"Faculty Recharging programme"** sponsored by Bishop Heber College, Tiruchirappalli organized by Internal Quality Assurance Cell (IQAC), Bishop Heber College, Tiruchirappalli at Bishop Heber College, Tiruchirappalli during 12/06/2019 to 13/06/2019.
4. College level Orientation on **"Faculty Development programme on Problem Solving in Physics"** sponsored by DBT, Ministry of Science and Technology, India organized by PG & Research Department of Physics, Bishop Heber College, Tiruchirappalli at Bishop Heber College, Tiruchirappalli during 06/06/2019 to 08/06/2019.
5. International level Conference on **"International Conference on Recent Advances in Materials"** sponsored by UGC and TNSCST organized by PG & Research Department of Physics, National College, Tiruchirappalli at National College, Tiruchirappalli during 22/03/2018 to 23/03/2018.
6. National level Workshop on **"Analytical Techniques for Research in Physics, Chemistry and Life sciences"** sponsored by Bishop Heber College, Tiruchirappalli organized by Bishop Heber College, Tiruchirappalli, Tamil Nadu, India at Bishop Heber College, Tiruchirappalli, Tamil Nadu, India during 09/03/2018 to 09/03/2018.
7. International level Conference on **"International Conference on Frontiers in Nano-Biotechnology (ICFNM-17)"** sponsored by DST-SERB organized by Bishop Heber College, Tiruchirappalli, Tamil Nadu, India at Bishop Heber College, Tiruchirappalli, Tamil Nadu, India during 08/09/2017 to 09/09/2017.
8. International level Conference on **"International Conference on Recent Advancements in Advanced Materials (PHYIM 2016-17)"** sponsored by Ananda College, Devakottai organized by Department of Physics, Ananda College, Devakottai at Devakottai, Sivaganga (DT). during 19/09/2016 to 20/09/2016.
9. -1 level Workshop on **"Material synthesis and Characterization"** sponsored by Karunya University, Coimbatore organized by Department of Physics, Karunya University at Karunya University, Coimbatore during 03/02/2016 to 03/02/2016.
10. International level Seminar on **"Bringing the Nanoworld Together 2015"** sponsored by Oxford Instruments organized by IIT Madras, Chennai, India at IIT Madras, Chennai, India during 03/11/2015 to 04/11/2015.
11. National level Conference on **"Thin films and Nano Technology"** sponsored by UGC-SERO organized by PG & Research Department of Physics, Rajah Serfoji Government College, Thanjavur at Rajah Serfoji Government College, Thanjavur during 02/03/2015 to 03/03/2015.
12. National level Seminar on **"Recent Advances in Materials Science"** sponsored by Bharathidasan University, Tiruchirappalli organized by School of Physics, Bharathidasan University, Tiruchirappalli at Bharathidasan University, Tiruchirappalli, during 03/02/2014 to 04/02/2014.
13. National level Workshop on **"Lecture Workshop on Nonlinear Physics"** sponsored by Indian Academy of Sciences, Bangalore, Indian National Science Academy, New Delhi and The National Academy of Sciences, India, Allahabad organized by PG & Research Department of Physics, Bishop Heber College, Tiruchirappalli at Bishop Heber College, Tiruchirappalli during 23/01/2014 to 25/01/2014.
14. National level Conference on **"Condensed Matter Physics and Applications"** sponsored by Manipal Institute of Technology, Manipal University, Manipal organized by Department of Physics, Manipal Institute of Technology, Manipal University, Manipal at Manipal Institute of Technology, Manipal University, Manipal during 27/12/2013 to 28/12/2013.

15. National level Conference on **"Frontier Topics in Advanced Materials"** sponsored by UGC organized by PG & Research Department of Physics, Bishop Heber College, Tiruchirappalli at Bishop Heber College, Tiruchirappalli, Tamil Nadu, India during 11/03/2013 to 11/03/2013.
16. State level Conference on **"Emerging Trends in Material Synthesis and Characterization (ETMSC 2013)"** sponsored by National College, Tiruchirappalli organized by PG & Research Department of Physics, National College, Tiruchirappalli at National College, Tiruchirappalli during 19/01/2013 to 20/01/2013.
17. State level Workshop on **"Workshop on Nano and Thin Film Materials - 2012"** sponsored by PG & Research Department of Physics, Rajah Serfoji Government College, Thanjavur and Science Club of Sree Sevugan Annamalai College, Devakottai organized by PG & Research Department of Physics, Rajah Serfoji Government College, Thanjavur at PG & Research Department of Physics, Rajah Serfoji Government College, Thanjavur during 28/10/2012 to 28/10/2012.
18. National level Conference on **"Perspectives in Laser, Optics, Spectroscopy and Nano Science"** sponsored by University Grants Commission, India organized by PG & Research Department of Physics, Bishop Heber College, Tiruchirappalli at Bishop Heber College, Tiruchirappalli during 14/02/2011 to 12/02/2011.
19. College level Seminar on **"Recent Advances in Spectroscopic Techniques"** sponsored by Bishop Heber College, Tiruchirappalli organized by PG & Research Department of Physics, Bishop Heber College, Tiruchirappalli at Bishop Heber College, Tiruchirappalli during 07/09/2010 to 07/09/2010.
20. State level Seminar on **"Telescopes: A journey of Discovery from the visible to invisible"** sponsored by Bishop Heber College, Tiruchirappalli organized by PG & Research Department of Physics, Bishop Heber College, Tiruchirappalli at Bishop Heber College, Tiruchirappalli during 14/12/2009 to 14/12/2009.

Research Papers Presented

- 2

1. **"High performance non-enzymatic H₂O₂ sensor based on MnO₂/MWCNTs/Ta nanocomposites"** in the International conference on *Recent Advancements in Advanced Materials* sponsored by , organized by Department of Physics, Ananda College at Devakottai during 19/09/2016 to 20/09/2016.
2. **"Effect of Substrate Temperature on the Properties of MnO₂ thin films"** in the International conference on *Bringing the Nanoworld together* sponsored by Oxford Instruments Seminar, organized by IIT Madras at Chennai during 03/11/2015 to 04/11/2015.

1. **"Fe overlayered hybrid TiO₂/ITO nanocomposite sensor for enhanced hydrogen sensing at room temperature by novel two-step process"** published in Sensors and Actuators B: Chemical (SELECT) Vol. 287, Issue No. , May 2019 ISSN : 0925-4005.
2. **"Fabrication of highly sensitive MnO₂/F-MWCNT/Ta hybrid nanocomposite sensor with different MnO₂ overlayer thickness for H₂O₂ detection"** published in Ceramics International (PEER REVIEW) Vol. 44, Issue No. 7, May 2019 ISSN : 0272-8842.
3. **"Substantial effect of Pd incorporation in MnO₂ synthesized by spray pyrolysis on MWCNTs/Ta electrode for better H₂O₂ sensitivity"** published in Ceramics International (PEER REVIEW) Vol. 45, Issue No. 3, February 2019 ISSN : 0272-8842.



Signature of Staff
(DAVID JEREIL S)