Dr.Renitta A

Assistant Professor, Department of Physics, Bishop Heber College, Tiruchirappalli - 17. E-mail : renitta.rachel16@gmail.com Phone : 9894053290 Web: NIL

Qualification

Degree	Branch	Institution / University	Year of Passing
Ph. D	Physics	Bishop Heber College	2017
M. Phil	Physics	Bishop Heber College	2013
M. Sc.,	Physics	Bishop Heber College	2012
B. Sc.,	Physics	Bishop Heber College	2010

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Ph.D. Details

Title of Thesis	Area of Speci	alization	
Investigation of room temperature Hydrog performance of alkaline-earth, noble and	, ,	nce – Thin films and Nanomateria	ls
Researd and provide thin films fabric	Riesleandh Centre	Year of Award	
อนุbatratagay์มลิตรถ _ท าPyrolysis method	Bishop Heber College	October 2019	
Additional Qualification	NISI DOMINUS	RUSTRA	
Name of Course	Place of Study	Date	Duration
Type Writing	chennai	August 2008	6 month
	Tirchy	February 2009	6 month

Work Experience

Name of Institution	Address of Institution	Designation	From	То	\neg
Bishop Heber College	vayalur,trichy-17	Assistant Professor	16-8-2021	till date	J

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

CONFERENCES / WORKSHOPS / SEMINARS ATTENDED

7

- National level Conference on "National Conference on Advancement of women in science and technology" sponsored by Bishop Heber College, Tiruchirappalli organized by Bishop Heber College, Tiruchirappalli at Tamilnadu during 05/08/2014 to 06/08/2014.
- National level Workshop on "Science Academies' Lecture Workshop on Nonlinear Physics" sponsored by Bishop Heber College organized by Bishop Heber College at Tiruchirappalli during 23/01/2014 to 24/01/2014.
- National level Workshop on "One day Cluster Workshop on "Scientific Writing" sponsored by Sree Sevugan Annamalai college organized by Sree Sevugan Annamalai college at Devakottai. during 10/11/2013 to 01/01/1900.
- College level Workshop on "Workshop on Nano and thin film Materials" sponsored by Rajah Serfoji Government College organized by Rajah Serfoji Government College at Thanjavur during 16/08/2013 to 17/08/2013.
- University level Workshop on "National Conference on Nanomaterials" sponsored by Karunya University organized by Karunya University at Coimbatore during 03/12/2012 to 04/12/2012.
- -1 level Conference on "Recent Advances in Spectroscopic Techniques" sponsored by Bishop Heber College, Tiruchirappalli organized by Bishop Heber College, Tiruchirappalli at during 07/09/2010 to 07/09/2010.
- 7. National level Conference on "*Telescopes: A Journey of discovery from the visible to invisible*" sponsored by Bishop Heber College, organized by Bishop Heber College, at Tiruchirappalli during 14/12/2009 to 14/12/2009.



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Research Papers Presented

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- "Selective H2 sensing characteristics of Mn modified ZnO nano-wires sprayed upon ITO substrate" in the International conference on *Two Days International Conference and Intercollegiate Meet on Recent Advancements in Advanced Materials* sponsored by , organized by Ananda College at Devakottai. during 19/09/2016 to 20/09/2016.
- "A novel room temperature hydrogen sensor based on Cr Activated ZnO/ITO nanorods array" in the International conference on *International conference on materials for sustainable future* sponsored by, organized by Sastra University at Tanjore during 14/07/2016 to 15/07/2016.
- "Highly sensitive hydrogen gas sensor based on W-ZnO/ITO films" prepared on spray deposition route" in the International conference on Oxford Instruments Seminar on Bringing the Nanoworld Together sponsored by, organized by IIT, Madras at Chennai during 03/11/2015 to 04/11/2015.
- 4. "Enhanced H2 sensing performance of Mg doped ZnO films fabricated on ITO substrate" in the National conference on National Conference on Advanced Materials sponsored by , organized by Sree Kerala Varma College, Trissur at Kerala during 16/10/2014 to 17/10/2014.
- 5. "Preparation of ZnO:Mg films on ITO coated glass substrate for H2 sensing application" in the National conference on National Seminar on Recent Advances in Materials Science sponsored by , organized by Bharathidasan University, Tiruchirappalli. at Tamilnadu during 03/02/2014 to 04/02/2014.
- ^{6.} "Preparation of nanostructured ZnO:Mg films on ITO coated Glass substrates for H2 sensing" in the National conference on National Conference on Matter Physics and Applications sponsored by , organized by Manipal University, Manipal at Karnataka. during 27/12/2013 to 28/12/2013.
- 7. "Influence of Mg dopant concentration on the properties of ZnO film prepared on ITO substrates" in the National conference on *Influence of Mg dopant concentration on the properties of ZnO film prepared on ITO substrates* sponsored by , organized by Government Arts college for women, Pudukkottai. at Tamilnadu during 06/08/2013 to 07/08/2013.
- 8. "Synthesis of Mg doped ZnO nanopowder by microwave technique" in the National conference on National conference on Frontier Topics in Advanced Materials sponsored by, organized by Bishop Heber College, Tiruchirappalli. at Tamilnadu during 11/03/2013 to 11/03/2013.
- "Microwave assisted processing of Mg doped ZnO" in the National conference on National conference on Recent Advances in Surface Science sponsored by, organized by Gandhigram Rural Institute, Dindigul. at Tamilnadu during 14/02/2013 to 15/02/2013.
- "Microwave assisted processing of Mg doped ZnO nanopowder" in the National conference on National conference on Prespectives in Laser, optics, spectroscopy and nanoscience sponsored by, organized by Bishop Heber College, Tiruchirappalli. at Tamilnadu during 14/02/2011 to 15/02/2011.

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Publication in Journals 10

- 1 " Substantial effect of Pd incorporation on the room temperature hydrogen sensing performance of ZnO/ITO nanowires prepared by spray pyrolysis method" published in Journal of Materials Science: Materials in Electronics (E-JOURNAL) Vol. 29, Issue No. 24, October 2018 Is simplex factor, Scopus Index, h - index 20, Citation index 6
- 2. " Novel two-step process for the fabrication of MnO2 nanostructures on tantalum for enhanced electrochemical H2O2 detection" published in Materials Chemistry and Physics (E-JOURNAL) Vol. 214, Issue No., August 2018 ISSN : ---. Impact factor , Scopus Index , h - index 20, Citation index 11
- 3. " Influence of post-deposition annealing and the ITO underlayer on the properties of hybrid TiO2/ITO nanocomposite for enhanced hydrogen sensing at room temperature" published in Ceramics International (E-JOURNAL) Vol. 44, Issue No. 1, January 2018 ISSN : ----Impact factor, Scopus Index, h - index 20, Citation index 6
- "High performance hydrogen sensor based on Mn implanted ZnO nanowires array fabricated 4. on ITO substrate" published in Materials Science and Engineering (E-JOURNAL) Vol. 77, Issue No., March 2017 ISSN : ---. Impact factor, Scopus Index, h - index 20, Citation index 15
- 5. "Highly sensitive hydrogen safety sensor based on Cr incorporated ZnO nano-whiskers array fabricated on ITO substrate" published in Sensors and Actuators B: Chemical (E-JOURNAL) Vol. 237, Issue No., July 2016 ISSN : ---.

Impact factor , Scopus Index , h - index 20, Citation index 31

6. " A novel room temperature ethanol sensor based on catalytic Fe activated porous WO3 microspheres" published in Catalysis Communications (E-JOURNAL) Vol. 73, Issue No., January 2016 ISSN : ---.

Impact factor, Scopus Index, h - index 20, Citation index 21

7. " Enhanced hydrogen sensing performance of tungsten activated ZnO nanorod arrays prepared on conductive ITO substrate" published in Ceramics International (E-JOURNAL) Vol. 41, Issue No. 10, December 2015 ISSN : ---.

Impact factor , Scopus Index , h - index 20, Citation index 13

"Highly (101) oriented MnO2 nanofibers synthesized using novel spray pyrolysis technique" 8. published in Journal of Materials Science: Materials in Electronics volume (E-JOURNAL) Vol. 26, Issue No. , August 2015 ISSN :--- VISI D Impact factor , Scopus Index , h - index 20, Citation index 4

- 9. " Enhanced H 2 sensing performance presented by Mg doped ZnO films fabricated with a novel ITO seed layer" published in Journal of Materials Science: Materials in Electronics (E-JOURNAL) Vol. 26, Issue No. 6, March 2015 ISSN : 0957-4522. Impact factor, Scopus Index, h - index 20, Citation index 23
- 10. "Growth of high quality ZnO: Mg films on ITO coated glass substrates for enhanced H 2 sensing" published in Ceramics International (E-JOURNAL) Vol. 40, Issue No. 4, May 2014 ISSN :

Impact factor , Scopus Index , h - index 20, Citation index 45

Awards Recieved -	2				
Award Name	Presented by	Year	Level	Instituted by / Place	amount
Best researcher Award		01/01/2016	SELECT	Bishop Heber College	1000
Maulana Azad National Fellowship for Minority Students	University Grant Commission	02/02/2015	NATIONAL		25,000/month



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