

## Personal Data

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## Educational Qualification

Course	Date of passing	Division/ Class with position, if any	Max: marks and marks secured for the entire degree	% of marks obtained	Subjects taken	Name of the University/ Board/ Institute
Ph.D	September 2013	<b>Title of the thesis:</b> Fabrication and Characterization of certain Niobium containing polycrystals for Dielectric Resonators and Solid Oxide Fuel Cells				University of Kerala
M.Phil.	March 2008	First class	339/500	67.8	Physics	M.S University N.M.C.C Marthandam
M.Sc.	May 2005	First class	1365/1800	75.83	Physics	University of Kerala Christian College,Kattakada
B.Sc.	May 2003	First class	837/1000	83.7	Physics, Chemistry, Mathematics	University of Kerala Christian College,Kattakada
Plus Two	March 2000	First class	652/900	72.4	Physics, Chemistry, Mathematics, Biology	Board of Higher Secondary Education Gov:BHSS Neyyattinkara
S.S.L.C.	March 1998	Distinction	502/600	83.6	General Science, Social Science, Mathematics, English	Board of Public Examinations, Kerala GHS Kanjiramkulam.

## Details of publications:

1. Sam Solomon, **D.B. Dhvajam**, G.R. Remya, Annamma John, J.K. Thomas, Fabrication and characterization of  $x\text{PrTiTaO}_6(1-x)\text{YTiNbO}_6$  microwave ceramic composites, Journal of Alloys and Compounds, 504, 151-154, 2010
2. **D. B. Dhvajam**, J. K. Thomas, K. Joy, Sam Solomon, Optical and dielectric properties of lanthanide titanium tantalate and niobate ceramic composites, Journal of Materials Science: Materials in Electronics, 22 (4), 384-388, 2010
3. **D. B. Dhvajam**, M. Buchi Suresh, U. S. Hareesh, J. K. Thomas, S. Solomon, Annamma John, Impedance and modulus spectroscopic studies on  $40\text{PrTiTaO}_6 + 60\text{YTiNbO}_6$  ceramic composite, Journal of Materials Science: Materials in Electronics, 23[3], 653-658, 2012
4. G.R. Remya, **D. B. Dhvajam**, Jijimon K. Thomas, Sam Solomon, Annamma John, Dielectric and optical properties of ZnO and  $\text{Eu}_2\text{O}_3$  doped  $\text{Pr}_{0.22}\text{Y}_{0.78}\text{TiTaO}_6$  ceramic, Journal of Materials Science: Materials in Electronics, 23, 370-375, 2012

## **Oral presentations**

1. Polycrystals for Solid Oxide Fuel Cells, **Dhvajam.D.B**, Jijimon K. Thomas, Sam Solomon, Oral presentation at National Seminar sponsored by UGC at All Saints College, Thiruvananthapuram from 20 to 21 July 2011.
2. Optical properties of Neodymium based composites synthesized by Solid State Ceramic Route. **Dhvajam.D.B**, Jijimon K. Thomas, Sam Solomon, Oral presentation at National Seminar sponsored by UGC at St. Aloysius College, Edathua from 19 to 21 August 2011
3. Vibrational Spectroscopic Characterization of  $50\text{PrTiNbO}_6+50\text{YTiTaO}_6$  microwave Ceramic Composites, **Dhvajam.D.B**, Jijimon K. Thomas, Sam Solomon, National Seminar sponsored by UGC at Bishop Moore College, Mavelikkara, Sept 26, 2011

4. Synthesis, Characterization and Dielectric properties of  $\text{ZnNb}_2(\text{Ti/Zr})\text{O}_8$  Ceramics. **Dhwajam.D.B**, Jijimon K. Thomas, Sam Solomon, 24<sup>th</sup> Kerala Science Congress - 2012.
5. Vibrational spectroscopic analysis of columbite  $\text{MgNb}_2\text{O}_6$  ceramic. **Dhwajam.D.B**, Annamma John, Jijimon.K.Thomas, Sam Solomon, International Conference on Molecular Spectroscopy of Advanced Materials and Biomolecules, at Bishop Moore College, Mavelikkara, 7-9<sup>th</sup> Aug, 2012.
6. Fabrication and characterization of  $\text{BaNb}_2\text{ZrO}_8$  ceramic, **Dhwajam.D.B**, Jijimon.K.Thomas, Sam Solomon, 25<sup>th</sup> Kerala Science Congress – 2013.

#### **Poster presentations**

1. “Synthesis and characterization of  $x\text{PrTiTaO}_6$  (1-x) $\text{YTiNbO}_6$  microwave composites” **Dhwajam.D.B**, Remya.G.R, Jijimon K.Thomas, Sam Solomon, Poster presentation in the 22<sup>nd</sup> Kerala Science Congress - 2010.
2. “ $\text{ANb}_2\text{O}_6$  (A= Ba, Sr): Optical Ceramics”, **Dhwajam.D.B**, Jijimon K. Thomas, Sam Solomon, 98<sup>th</sup> Indian Science Congress – January 3-7, 2011