

**Dr. S. Ramesh**

<b>CONTACT INFORMATION</b>	Saveetha School of Engineering, Saveetha University, Chennai Tamilnadu- 602105, India.	<b>Mobile:</b> +91- 9894437744 <b>E. mail:</b> rameshsiva_chem@yahoo.com
<b>EDUCATION</b>	<p><b>Ph.D. in Chemistry</b>, Pondicherry University, Pondicherry, India. <span style="float: right;"><b>2013</b></span>  <i>Thesis Title:</i> Sol-Gel Synthesis, Structure and Characterization of <math>Ag_{3(2+x)}A_xTi_{4-x}O_{11+\Delta}</math> (A= Gd And Al) and <math>Ag_{3(2+x)}B_xNb_{4-x}O_{11+\Delta}</math> (B= Pr And In) (<math>0.0 \leq x \leq 1.0</math>) Nanocomposites</p> <p><b>M.Phil. in Chemistry</b>, Pondicherry University, Pondicherry, India. <span style="float: right;"><b>2006</b></span>  <i>Thesis Title:</i> Sol-gel Synthesis, Structure and Characterization of <math>Nd_{2x}Cd_{2-3x}SiO_4</math> (<math>0.01 \leq x \leq 0.21</math>) Nanocomposites</p> <p><b>M. Sc. in Chemistry</b>, Bharathidasan University, Tiruchirappalli, India. <span style="float: right;"><b>2005</b></span></p> <p><b>B. Sc. in Chemistry</b>, Bharathidasan University, Tiruchirappalli, India. <span style="float: right;"><b>2003</b></span></p>	
<b>RESEARCH INTEREST</b>	<p>Synthesis and structural studies on Nanomaterials, Composites, Solid-solutions, Oxides, Intermetallics, and Glasses. Synthesis and state-of-the-art in Electronic, optical and Magnetic Materials.</p> <p>Theoretical investigation of Nanostructured and bulk materials and CASTEP&amp; Gaussian Calculations).</p>	
<b>WORK HISTORY</b>	<p><b>Research Associate</b> New Chemistry Unit, Jawaharlal Nehru Centre for Advanced Scientific Research (JNCASR) Jakkur P.O., Bengaluru, Karnataka 560064, India <span style="float: right;"><b>Aug 2014-Present</b></span></p> <p><b>Research Faculty</b> Department of Chemistry, Saveetha School of Engineering, Saveetha University, Chennai, India <span style="float: right;"><b>2012-2014</b></span></p> <p><b>Graduate Research Assistant</b> Materials chemistry Laboratory, Pondicherry University, Pondicherry, India. <span style="float: right;"><b>2008 – 2013</b></span></p> <p><b>Meritorious Research Fellow</b> Materials chemistry Laboratory, Pondicherry University, Pondicherry, India. <span style="float: right;"><b>2008 - 2011</b></span></p> <p><b>Graduate Teaching Assistant</b> Materials chemistry Laboratory, Pondicherry University, Pondicherry, India. <span style="float: right;"><b>2007 - 2008</b></span></p>	
<b>HONORS AND AWARDS</b>	<p><b>Research Fellowship in Sciences for Meritorious Students</b> Fellowship for Meritorious Research Scholar by University Grant Commission (UGC), Government of India. <span style="float: right;"><b>Sep – 2008</b></span></p> <p><b>University Research Fellowship</b> Fellowship for university Research Scholars by University Grant Commission (UGC), Government of India. <span style="float: right;"><b>Sep - 2007</b></span></p>	

<b>HONORS AND AWARDS</b>	<p><b>Dayawathi Rastogi Award</b> International Conference on Perspectives in Vibrational Spectroscopy (ICOPVS 2013), Bishop Moore College, Kerala. India.</p>	<b>Mar - 2013</b>
	<p><b>Best Presentation Award</b> National Conference on analytical Spectroscopy in Chemical Research, MAMO College, Kerala, India.</p>	<b>Dec - 2009</b>
<b>LABORATORY SKILLS AND EXPERIENCE</b>	<p><b>Synthesis techniques:</b> Sol-gel methods, Solid-state reaction methods, Combustion Synthesis, Solution phase methods, Solvothermal, Polyol method, Arc-meter, Induction furnace, Bridgeman furnace, and Ball milling.</p>	
	<p><b>Instrument Handled and Characterization:</b> Powder X-ray diffraction (XRD), Single crystal XRD, Transmission Electron Microscopy (TEM), Scanning Electron Microscope and Energy Dispersive X-ray analysis (SEM-EDX), Thermal Evaporation coating, UV-Visible (UV-VIS), Infrared Spectroscopy (IR), Electron paramagnetic resonance (EPR), Vibrating Sample Magnetometer (VSM), Thermal Analysis (DSC and TGA), Cyclic Voltmeter (CV), and X-ray fluorescence (XRF),</p>	
<b>SOFTWARE SKILLS AND EXPERIENCE</b>	<p><b>Softwares:</b> Materials Studio, Gaussian, Fullproff, Spartan and Other Software Skills in chemistry and materials science: Chem. Draw, Find it, Pearson, Mercury, Diamond, APEX, EVA, Xpert-Highscore Plus and CCDC and X-Powder</p>	
<b>SUBMITTED FOR PUBLICATIONS</b>	<p><b>S Ramesh</b>, Structure, Optical and Magnetic Characterization of <math>\text{Ag}_{3(2+x)}\text{Pr}_x\text{Nb}_{4-x}\text{O}_{11+\delta}</math> (<math>0.0 \leq x \leq 1.0</math>) Nanocomposites”, Manuscript submitted to Acta Materialia</p>	<b>2015</b>
	<p><b>S Ramesh</b> and B B Das Synthesis and Characterization of <math>(0.3-x)\text{WO}_3-0.70\text{Sb}_2\text{O}_3-x\text{AgNO}_3</math> (<math>0.29 \geq x \geq 0.01</math>) Polycrystalline System. Manuscript Submitted to Materials Characterization</p>	<b>2015</b>
<b>PUBLICATIONS</b>	<p><b>S Ramesh</b> and S. Marutheeswaran “Electronic structure study on 2D hydrogenated Icosagens nitride nanosheets”, <i>Superlattice and microstructures</i> 76, (2014) 213-220.</p>	<b>2014</b>
	<p>J V Ramaclus, T Thomas, <b>S. Ramesh</b>, P. Sagayaraj and E. A. Michael “Growth, linear and nonlinear optical properties of a DSSS crystal” <i>Cryst.Eng.Comm</i>, <b>DOI: 10.1039/C4CE00554F</b></p>	<b>2014</b>
	<p><b>S Ramesh</b> and B B Das, “Synthesis, Structure and Characterization of <math>\text{Ag}_{3(2+x)}\text{Al}_x\text{Ti}_{4-x}\text{O}_{11+\delta}</math> (<math>0.0 \leq x \leq 1.0</math>) Nanocomposites”, <i>J. Nanoscience</i>. <b>DOI: 10.1155/2013/929321</b></p>	<b>2013</b>
	<p><b>S Ramesh</b>, “Sol-gel Synthesis and structural characterization of Gd Dopped Ag-Ti Nanocomposites”, <i>J. Chem. Sci. Tech.</i> 2 (2013) 1-4.</p>	<b>2013</b>
	<p><b>S Ramesh</b>, and B.B. Das “Sol-gel Synthesis, Structural and Characterization of Ag-Gd-Ti-O Nanocomposites” <i>Asian J. Chem.</i> 24, (2013) 5543-5545.</p>	<b>2012</b>
	<p><b>S Ramesh</b> and B. B. Das, “Synthesis, structure and characterization of <math>\text{Nd}_{2x}\text{Cd}_{2-3x}\text{SiO}_4</math> solid-solution” <i>J. Korean Chem. Soc.</i> 24, 502-508.</p>	<b>2011</b>

CONFERENCES,  
SEMINARS AND  
WORKSHOPS

- S. Ramesh**, and B B Das, “Synthesis, Crystal structure, Electronic, Optical and Magnetic Properties of  $\text{KCrO}_2$  Oxide” *International Conference on Materials and Characterization Techniques (ICMCT 2014)*, VIT University, Vellore, Tamilnadu. 2014
- S. Ramesh** and B B Das and D. Nagraju “Sol-gel Synthesis and Characterization of  $(0.3-x)\text{WO}_3-0.70\text{Sb}_2\text{O}_3-x\text{Ag}_2\text{O}$  ( $0.29 \geq x \geq 0.01$ ) Polycrystalline System” *International Conference on Perspectives in Vibrational Spectroscopy (ICOPVS 2013)*, Bishop Moore College, Mavelikara, Kerala, 2013
- S. Ramesh**, Synthesis, Structural and Magnetic Characterization of  $\text{Ag}_{3(2+x)}\text{Pr}_x\text{Nb}_{4-x}\text{O}_{11+d}$  ( $0.0 \leq x \leq 1.0$ ) Nanocomposites” *National conference on emerging trends in science and humanities (NCETSH)*, Saveetha school of engineering, Saveetha university, Chennai, India. 2013
- S. Ramesh**, Synthesis, Structural and Magnetic Characterization of  $\text{Ag}_{3(2+x)}\text{Al}_x\text{Ti}_{4-x}\text{O}_{11+d}$  ( $0.0 \leq x \leq 1.0$ ) Nanocomposites” *Interdisciplinary symposium on materials chemistry (ISMC)*, BARC, Mumbai, India. 2012
- S. Ramesh**, Fifth Science Conclave: An interaction program of Nobel Laureates and eminent National and International Academicians, Scientists with selected students, young teachers & researchers to inspire and motivate them towards careers in Basic Sciences. 2012
- S. Ramesh**, “Solgel synthesis, structure, and characterization of  $\text{Ag}_{3(2+x)}\text{Pr}_x\text{Nb}_{4-x}\text{O}_{11+d}$  ( $0.0 \leq x \leq 1.0$ ) solid solutions” *International Conference on Molecular Spectroscopy of Advanced Materials and Biomolecules (IMSAB)*, Kerala, India. 2012
- S. Ramesh** and B B Das, “Synthesis, structural, and magnetic characterization of Ag-Gd-Ti solid solutions” *International conference on Global trends in pure and applied chemical sciences (ICGTCS)*, Udaipur, India. 2012
- S. Ramesh**, Workshop on “Fabrication and application of novel nano sensor” *Saveetha School of Engineering, Saveetha University, Chennai, India.* 2011
- S. Ramesh**, “Synthesis and Structure-Property Relations in  $\text{Nd}_{2x}\text{Cd}_{2-3x}\text{SiO}_4$  ( $0.01 \leq x \leq 0.21$ ) System”. *National Conference on analytical spectroscopy, Kerala, India.* 2009
- S. Ramesh** and B B Das, “Magnetic Behaviour and Structural Characterization of  $\text{Pr}_{4-x}\text{Ca}_{1+x}\text{Fe}_{5-x}\text{Zn}_x\text{O}_{14+\delta}$  ( $0.0 \leq x \leq 1.0$ ) Oxides” *National Conference on Recent Advances in the Study of Transition Metal Complexes, Viruthunager, India.* 2008

CONFERENCES,  
SEMINARS AND  
WORKSHOPS

- S. Ramesh** and B. B. Das “Synthesis, Structural and Magnetic Characterization of  $\text{Ag}_{3(2+x)}\text{Gd}_x\text{Ti}_{4-x}\text{O}_{11+d}$  ( $0.0 \leq x \leq 1.0$ ) Nanocomposites” *International conference on magnetic materials (ICMM), Kolkatta, India.* **2007**
- D Mohanty, **S. Ramesh** and B. B. Das, “Sol-Gel Synthesis and Structure-Property Relations in  $\text{Nd}_{4-x}(\text{Sr}_{1+x}/\text{Cs}_{2(1+x)})\text{Fe}_{5-x}\text{Zn}_x\text{O}_{14+\delta}$  ( $0.0 \leq x \leq 1.0$ ) (A1-A5: Sr; B1-B5: Cs) Oxide Systems” *94<sup>th</sup> The Indian Science Congress Association, Annamalai University, India.* **2007**
- B B Das, K M Rao, D Mohanty and **S Ramesh**, “Sol-Gel Synthesis and Structure –Properties relations in  $\text{Pr}_{4-x}\text{Ca}_{1+x}\text{Fe}_{5-x}\text{Zn}_x\text{O}_{14+\delta}$  ( $0.0 \leq x \leq 1.0$ ) Oxides” *18<sup>th</sup> Annual General Meeting and Theme Symposium on Bio, Biomedical and nature Materials, Delhi, India.* **2007**
- S Ramesh**, B B Das and R Govindarao, “Sol-Gel Synthesis and Characterizations of Zn-Doped  $\text{TiSiO}_4$  ( $0.15 \leq x \leq 0.45$ ) System” *18<sup>th</sup> Annual General Meeting and Theme Symposium on Bio, Biomedical and nature Materials” Delhi, India.* **2007**
- S Ramesh**, B B Das, A Srinivasan and D.Mohanty, “Sol- Gel Synthesis and EPR Studies Of  $x\text{CuO}-(1-x)\text{Bi}_2\text{O}_3$  ( $0.05 \leq x \leq 0.45$ )” Glasses at *18<sup>th</sup> Annual General Meeting and Theme Symposium on Bio, Biomedical and nature Materials, Delhi, India.* **2007**
- S Ramesh**, B B.Das and D Mohanty “Sol- Gel Synthesis and characterizations of  $\text{Nd}_{4-x}\text{Cs}_{2(1+x)}\text{Fe}_{5-x}\text{Zn}_x\text{O}_{14+d}$  ( $0.0 \leq x \leq 1.0$ ) Composite Oxides” *18<sup>th</sup> Annual General Meeting and Theme Symposium on Bio, Biomedical and nature Materials” (MRSI), Delhi, India.* **2007**
- S Ramesh** B B Das, M Deepa and D Mohanty, “Magnetic Properties Of  $x\text{Fe}_2\text{O}_3-(1-x)\text{Bi}_2\text{O}_3$  ( $0.1 \leq x \leq 0.5$ ) and  $(0.4-x)\text{Fe}_2\text{O}_3-0.6\text{Bi}_2\text{O}_3-x\text{K}_2\text{O}$  ( $0.05 \leq x \leq 0.25$ ) Glasses” *18<sup>th</sup> Annual General Meeting and Theme Symposium on Bio, Biomedical and nature Materials, Delhi, India.* **2007**
- S. Ramesh** and B B Das, “Sol-gel Synthesis and Structure Property Relations in  $\text{Nd}_{4-x}(\text{Sr}_{1+x}/\text{Cs}_{2(1+x)})\text{Fe}_{5-x}\text{Zn}_x\text{O}_{14+d}$  ( $0.0 \leq x \leq 1.0$ ) (A1-A5: Sr; B1-B5: Cs) Oxide Systems” *National Conference on Current Trends in Chemical Research (CTCR), Mangalore University, India.* **2006**
- S. Ramesh** and B B Das, “Sol-Gel Synthesis and Structure-Property Relations in  $\text{Nd}_{2x}\text{Cd}_{2-3x}\text{SiO}_4$  ( $0.01 \leq x \leq 0.21$ ) Systems” *International Conference in Materials Science, BARC, Mumbai, India, 2006.* **2006**

**ORGANIZER/  
COORDINATOR**

National level technical symposium, Saveetha School of Engineering,  
Saveetha University, Chennai, India, **2012**

National Conference on Advances in Science & Technology (NCAST),  
Saveetha School of Engineering, Saveetha University, Chennai, India, **2011**

**PERSONAL  
INFORMATION**

**Name** : S. Ramesh  
**Date of Birth** : 07/06/1983  
**Permanent Address** : Muthiyampalayam (Po), Thuraiyur (Tk),  
Trichy (Dt.), Tamilnadu - 621004, India.  
**Sex & Marital Status:** Male & Single  
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**REFERENCE**

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**DECLARATION**

I hereby declare that the above information's are true to best of my knowledge and belief.

Yours sincerely

  
[S. Ramesh]