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Educational Qualifications:

Name of the Course	Name of the Institution and University	Month and Year of Passing	Percentage/Grade of Mark
B. Sc Chemistry	Devanga Arts College, Aruppukottai (Madurai Kamaraj University, Madurai)	April 2004	66.5%
M. Sc Applied Chemistry	Thiagarajar College of Engineering, Madurai (Anna University Chennai)	April 2006	7.26
Ph. D (Chemistry)	Thiagarajar College of Engineering, Madurai (Anna University Chennai)	On going	

Area of Specialization:

- Polymer Science
- Waste Management
- Environmental Science
- Luminescent Materials

Skills:

Trained to handle

- Thermo gravimetric Analyzer (TGA)
- Differential Scanning Calorimeter (DSC)
- UV Spectrophotometer
- FTIR
- Fluorescent Spectrophotometer.

Details of Employment (Work Experience)

Name of the Office/Instt./Orgn.	Designation	From	To	Nature of duties/ Exp.
Thiagarajar College of Engineering, Madurai	Technician	03.08.2006	02.07.2009	Research work on waste polymer utilization
Thiagarajar College of Engineering, Madurai	Junior Research Fellow	09.09.2009	31.12.2013	Research work on Polymer Bitumen
Thiagarajar College of Engineering, Madurai	Project Fellow	02.01.2013	01.07. 2014	Synthesis of Phosphor and characterization
Thiagarajar College of Engineering, Madurai	Junior Research Fellow	13.01.2016	14.01.2017	Research work on waste polymer utilization

Publications (in refereed journals):

1. **B. Sundarakannan** and M. Kottaisamy, Sol-Gel derived flux assisted synthesis of fine particles YAG:Ce³⁺ phosphor for remote phosphor converted white light emitting diodes, Materials Research Bulletin. 75 (2016) 485-490.
2. **B. Sundarakannan** and M. Kottaisamy, Synthesis of blue light excitable white light emitting ZnO for luminescent converted light emitting diodes (LUCOLEDs), Materials Letters. 165 (2016) 153-155.
3. K. Lingadurai, **B. Sundarakannan**, E. R. Nagarajan, H. Kominami, Y. Nakanishi and M.Kottaisamy, Low voltage cathode-luminescent properties of Zn co-doped Y2O3:Eu red phosphor, Journal of Luminescence. 177 (2016) 249-253.
4. R. Vasudevan, A. R. Chandra Sekar, **B. Sundarakannan**, A technique to dispose waste plastics in an ecofriendly way – Application in construction of flexible pavements, Construction and Building Materials. 28 (2012) 311-320.
5. R. Vasudevan, A. R. Chandra Sekar, **B. Sundarakannan**, Utilisation of waste polymers for flexible pavement and easy disposal of waste polymers, International national journal of pavement research and technology. 3(1) (2010) 34-42.

Oral/Poster Presentations

1. **B. Sundarakannan** and M. Kottaisamy, Development of di-band and tri-band phosphor materials for near UV converted white light emitting diodes (WLEDs) for energy saving lighting systems, Advanced Materials Processing and Devices, 16-17 July 2013, Madurai Kamaraj University, Madurai. (Poster Presentations)
2. **B.Sundarakannan**, P.S.Venkateswaran, and M.Kottaisamy, Urea assisted non-hydrolytic synthesis of nano-crystalline $Y_3Al_5O_{12}$: Ce yellow emitting phosphor materials for blue light converted white light emitting diodes (WLEDs) for energy saving lighting systems, Theme Meeting on Recent Trends in Materials Chemistry, 25-27 July 2013, VIT University, Vellore.(Poster Presentations)
3. **B.Sundarakannan**, and M.Kottaisamy, Y_2O_3 S:Eu³⁺ - Polyurethane - A novel near UV excitable white light emitting phosphor composites for phosphor converted white light emitting diodes (pcWLEDs), International Conference On Functional Materials,5-7 February 2014, Indian Institute of Technology, Kharagpur.(Oral Presentations)
4. **B.Sundarakannan**, and M.Kottaisamy, Synthesis and Characterization of White light emitting Nano ZnO/Polyvinyl alcohol composites for Luminescent conversion Light emitting diodes (LUCOLEDs), International Conference On Advanced Functional Materials, February 19-21, 2014, CSIR-IISER, Trivunanthapuram. (Poster Presentations)
5. **B.Sundarakannan**, and M.Kottaisamy, Synthesis of Near UV and Blue Light Excitable White Light Emitting ZnO for Luminescent Converted Light Emitting Diodes (LUCOLEDs), 59th DAE-Solid State Physics Symposium, 16-20 December, 2014, VIT University, Vellore.(Poster Presentations)
6. **B. Sundarakannan** and M. Kottaisamy, Synthesis and characterisation of Al doped ZnO for light emitting diodes, 10th Mid-year CRSI Symposium, 23-25 July 2015, NIT, Trichy. (Poster Presentations & Best poster Award)
7. **B. Sundarakannan** and M. Kottaisamy, Synthesis of Near UV and Blue light Excitable Red emitting Ce doped ZnO Phosphor for White Light Emitting Diode Applications, National Conference on Luminescence and Applications(NCLA-17), 9-11 January 2017, IICT, Hyderabad. (Poster Presentations)
8. **B. Sundarakannan** and M. Kottaisamy, Synthesis of Multiwavelength Excitable ZnO and Doped ZnO for White Light Emitting Diodes (WLEDs) Applications, 4th International conference on Nanoscience and Nanotechnology (ICONN-2017), 9-11 August 2017, SRM University, Chennai. (Poster Presentations)

Conference/Workshops Attended

S.NO	Title	Organized by	Name of the Conference/ Workshop	National/ International	Year
1.	Utilization of waste plastics coated aggregate for flexible pavement and easy disposal of waste plastics	Anna University Chennai	Sustainable Solid Waste Management Conducted by Centre for Environmental Studies, Anna University	International	2007
2.	Thrust areas in Chemistry	Anna University Chennai	One day workshop on Thrust areas in Chemistry	National	2011
3.	Recent Advances in Polymer Chemistry	NIT Karnataka	AICTE-MHRD Sponsored short term training programme on Recent Advances in Polymer Chemistry	National	2011
4.	Recent Trends in Materials Research	NIT Tiruchirappalli	Convergence-2012 Recent Trends in Materials Research	National	2012
5.	Recent Advances in Materials Science & Technology	NIT Karnataka	International Conference on Recent Advances in Materials Science & Technology (ICRAMST)	International	2013
6.	Materials Characterisation Techniques: AFM & XRD	Madurai Kamaraj University	One day workshop on Materials Characterisation Techniques: AFM & XRD	National	2014
7.	Research Paper Writing	Thiagarajar College of Engineering	TEQIP-II one-day workshop on Research Paper Writing	National	2016
8.	"WHITE LEDs FOR 21st CENTURY LIGHTING SYSTEMS	Thiagarajar College of Engineering	one day National workshop on "WHITE LEDs FOR 21st CENTURY LIGHTING SYSTEMS"	National	2017