

Dr.SAJIKUMAR.A.C

Asst. Professor
Dept. of Physics
Christian College, Kattakada
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ACADEMIC DETAILS

Course	Duration	University
Ph.D. (Physics) Title: **Growth and Characterization of Potassium Hydrogen Phthalate crystals doped with some organic and inorganic compounds**	2011 - 2015	Manonmaniam Sundaranar University
M.Phil. (Physics)	2002-2003	Manonmaniam Sundaranar University
P.G.D.C.A.	2000-2001	Manonmaniam Sundaranar University
M.Sc.(Physics)	1998-2000	Kerala University
B.Sc.(Physics)	1995-1998	Manonmaniam Sundaranar University

AREA OF ACADEMIC INTERESTS

Subject name: Material Science

ACADEMIC BODIES/ DUTIES

- Centre for Gandhian Studies Coordinator, Christian college Kattakada (2018 onwards)
- Social media convenor (2019 onwards),

CORE COMPETENCIES

- Special skills in teaching
- Expertise in handling Electronics practicals.
- Research in material Science.

ACADEMIC EXPERIENCE

Sep 2017 to till Date

Designation : Asst. Professor
Institute : Christian College Kattakada

October 2012 – August 2017

Designation : H. O. D.
Institute : Malankara Catholic College Mariagiri, Kanyakumari

June 2002 – September 2012

Designation : Asst. Professor
Institute : Malankara Catholic College Mariagiri, Kanyakumari

PUBLICATIONS

1. Effects of Strontium metal ion doping on the thermal, optical and electrical properties of potassium hydrogen phthalate single crystals. **A.C.Sajikumar,** C.Krishnan and S.Vinu, Journal of Thermal Analysis and Calorimetry, 119 (2015) 1047–1052.

2.Studies on Structural, Optical and Thermal properties of L- Histidine doped Potassium Hydrogen Phthalate single crystal. **A.C. Sajikumar**, S.Vinu and C. Krishnan, Int. Journal of Engineering Research & Technology 4 (2015) 542-547.

3.Growth and Characterization of Barium doped Potassium Hydrogen Phthalate Single Crystal. **A.C. Sajikumar,** S.Vinu and C. Krishnan. Int. Journal of Engineering Research and Application 5 (2015), 52- 54.

4. Effect of L-arginine on the growth and properties of Potassium Hydrogen phthalate single crystals, **A.C. Sajikumar,** Asian Journal of Science and Technology, 7,8(2016)3461-3463**.**

5. Growth and characterization of Potasium Acetate doped Bis Thiourea Cadmium Acetate crystals, **A.C. Sajikumar** , International Journal of Science and Research, 5, 8(2016)1221-1223.

6. Effects of cadmium metal ion doping on the thermal, optical and electrical properties of potassium hydrogen phthalate single crystals **A.C. Sajikumar** and V.T.Jisha, International Journal of Materials Physics, 7,18(2016)1-8.

7. Growth, Micro hardness and Dielectric Studies on the NLO Material Tristhiourea potassium chloride crystals, **A.C. Sajikumar** and V.T.Jisha, Ultra Scientist, 28,4B (2016)110-113.

8. The structural, optical and thermal properties of Tristhiourea potassium chloride crystals**,A.C. Sajikumar** and V.T.Jisha, International Journal of Physics and Applications, 8,1(2016) 45-51.

9. Synthesis and Charecterization of Strontium Aluminae Nanophosphors, V.T.Jisha, G.Suresh and **A.C. Sajikumar**, Nano Trends: A Journal of Nanotechnology and Its Application, 18,2,(2016) 7-10.

10. Optical Properties of Dy doped Strontium Aluminate Nanophosphors, V.T.Jisha and **A.C. Sajikumar**, International Journal of Science and Research, 5, 8(2016) 978-980.

11. Sol gel synthesis and optical characterization of the SrAlO:Dy nanophosphor, V.T.Jisha and **A.C. Sajikumar,** Ultra Scientist, 28,4B (2016)88-93.

12. Piezoelectric and mechanical properties of Potassium Hydrogen Phthalate single crystal, **A.C. Sajikumar,** International Journal of Physics and Applications, Volume 8, Number 1 (2016), pp. 53-57, International Research Publication House

13.Synthesis and Characterization of SrAL4O7:LA Phosphor prepared via sol-gel method, V.T.Jisha and **A.C. Sajikumar,** Acta Ciencia Indica ,XLII,2(2016) 85-88

14. Influence of potassium chloride doping on the properties of urea succinic acid single crystals, IJAERD, S.K. Amjath Kudos, **A.C.Sajikumar,** C.Krishnan Volume 05 Issue 02, February-2018

14. Structural, optical, thermal and electrical properties of thiourea doped KHP crystal, **A.C. Sajikumar** and V.T.Jisha, Materials today proceedings- ELSEIVIER,11 (2019) 944–95

SYMPOSIA & WORKSHOPS

List of publications - National Proceedings

1. Influence of Sr^{2+} ion on the optical and Dielectric properties of potassium hydrogen phthalate single crystals. **A.C. Sajikumar**, S.Vinu and C. Krishnan, Proceedings of the UGC sponsored National Seminar on Emerging Trends in Theoretical & experimental physics (ETTEP-2015), ISBN 978-81-929308-2-4, pp.1-5.

2. Growth and Characterization of L-Histidine doped Potassium Hydrogen Phthalate Single Crystal by Slow Evaporation Technique **A.C. Sajikumar**, S.Vinu and C. Krishnan, Proceedings of the UGC Sponsored National Conference on Emerging Trends in Applied Physics (NCETAP-2015), ISBN 978-81-928007-2-1, pp. 40-42.

11. Seminars/ workshop/ conferences attended/ presented research Papers

1. International Symposium on Recent Advances in inorganic materials,11-13 Dec 2002, IIT Bombay, Mumbai, India (Paper presented).
2. Seminar on Recent Trends in selected areas in Condensed Matter Physics, February 6, 2004, Department of Physics Holy Cross College, Nagercoil, Tamilnadu, India (Attended).
3. State level seminar on Recent develpments in physics on 30th september 2004, Women's Christian college Nagercoil, Tamilnadu, India. (Attended).
4. National conference on preparation and characterization of crystalline materials, January 19-21, 2006, Department of physics, S.T.Hindu College Nagercoil, Tamilnadu, India (Paper presented).
5. UGC – Sponsored Regional Seminar (with national participation) on 30th & 31st August and 1st September, 2007, Department of physics, Aditanar College Tiruchendur, Tamilnadu, India (Paper presented).

6. DBT Sponsered National seminar on Global warming and its Impact on Environment along Indian Ocean,22-23 August 2008 Lekshmipuram college of Arts and Science, Neyyoor, Kanayakumari District, Tamilnadu, India (Attended).
7. National Seminar on Crystalline materials and Nano Technology, February 26- 27, 2009, Department of Physics, Malankara Catholic College, Mariyagiri, Kanayakumari District, Tamilnadu, India (Paper presented).
8. UGC- Sponsored National conference (with International Participation) on Recent and Emerging developments in Physics, 7 – 9 January, 2010, Department of physics, Women's Christian College Nagercoil, Tamilnadu, India (Paper presented).
9. UGC sponsored National conference on 'Recent Trends in crystal growth & Nanotechnology" 28^{th}-29^{th} January 2011 Arignar Anna College Aralvaimozhi, Kanayakumari District, Tamilnadu, India (Paper presented).
10. National conference on Exploring the frontiers of vibrational spectroscopy, 1-2 September, 2011, Department of physics & Research Centre, Women's Christian college Nagercoil, Tamilnadu, India (Paper presented)..
11. XVI National Seminar on Crystal Growth, 19-21^{st} January 2012 Department of physics, Aditanar college of Arts and Science, Tiruchendur, Tamilnadu, India (Paper presented).
12. UGC sponsored National Seminar on Materials & Nano materials, 7-8 March 2013, Department of physics, St. Xaviers College Palayamkottai, Tamilnadu, India (Paper presented).
13. National Conference on innovative Trends in Material Science, Arignar Anna College Aralvaimozhi, 23^{rd}-24^{th} August 2013 Kanayakumari District, Tamilnadu, India (Paper presented).
14. UGC sponsored National conference on Emerging Trends in Theoretical and experimental physics, 8-9 January 2015 Department of physics, Sree Ayyappa college for women, Chunkankadai., Kanayakumari District, Tamilnadu, India (Paper presented).

15. National seminar on new materials and Nanotechnology16-17 January 2015, Heera College of Engineering & Technology, Panavoor, Thiruvananthapuram, Kerala, India (Paper presented).

16. International Seminar on Solar energy, 11th February 2015, Department of physics, St, Mary's college, Thoothukudi, Tamilnadu, India (Attended)

17. UGC Sponsored National Conference on Emerging trends in Applied Physics (NCETAP-2015), February 19 & 20, 2015 Lekshmipuram college of Arts and Science, Neyyoor, Kanayakumari District, Tamilnadu, India (Paper presented).

18. UGC Sponsored two day National seminar on New horizons in spectroscopy, Department of physics, 15-16 October 2015, St John's college Anchal, Kerala, India (Paper presented)

19. International interaction on International Publicity for Science in Film & Television, 23 September 2016, Malankara Catholic College Mariagiri, Kanyakumari District, Tamilnadu, India.

20. International conference on Renewable Energy and materials for Sustainability (ICREMS 2016), 20 October 2016, Noorul Islam university, Kumaracoil Kanyakumari District, Tamilnadu, India (Paper presented).

21.International Earthday celebrations sponsored by Ministry of Earth Sciences, Government of India at Malankara Catholic College Mariagiri on 22 April 2017.

22International Multi-conference on Computing, Communication, Electrical & Nanotechnology (I2CN-2k18), 26th & 27th April, 2018 organized by department of electrical and electronics engineering ,Mangalam College of Engineering Ettumanoor, Kottayam, Kerala, India (Paper presented)

23 . One day workshop in Electronics 4 U, 2 February 2019, NSS college for women, Neeramankara, Thiruvananthapuram.

24.International seminar on Super and Nano chemistry of Bio active Molecules (SANCBAM-2019) on 19 & 20 Aug 2019 CCK (Attended)

25. International seminar on Technologically Advanced materials (ISTAM 2019) on 6 September 2019 at Muslim Arts College Thiruvithancode Kanyakumari (Paper presented).
26. E-Summer School on Advanced Functional Materials for Energy Harvesting, Storage and Biomedical Applications 13 to 19 May Bishop Moore college Mavelikara
27.Indian Summer school on Crystal Growth 14-23 May 2020, SSN Research Centre, Chennai.
28. One week online FDP on "Higher Education During COVID Times and After: Challenges and Opportunities" 23 to 29 May 2020.
29 Materials for device application, on 31 May 2020 Dept of Physics, Ayyappa College, Chunkandai, Kanyakumari

PERSONAL DETAILS

Name	**:**	**Dr. SAJIKUMAR. A.C.**
Parents	**:**	**Late. Mr.S.Chellappan & Mrs.C.Annammal**
Date of birth	**:**	**06/10/1977**
Sex	**:**	**Male**
Marital Status	**:**	**Married**
Nationality	**:**	**Indian**
Current Location	**:**	**Sooriacode, Kanyakumari Dist, Tamilnadu**
Qualification	**:**	**M.Sc.,M.Phil., Ph.D.**
Languages known	**:**	**English, Malayalam & Tamil**
Hobbies	**:**	**Reading, Music**

PERMANENT ADDRESS

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