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NAME & QUALIFICATION: Dr. A. ANITHA EZHIL MANGAIYAR KARASI., M.Sc., M.Phil., Ph.D.

DESIGNATION: ASSISTANT PROFESSOR

DEPARTMENT NAME: PHYSICS

Email id: anivishaal@gmail.com **Official id:** anithaezhilmangaiyarkarasi@sigc.edu

Specialization if any: THIN FILM

Total Teaching Experience: 21 Years

No. of research articles published in UGC CARE / SCOPUS / WEB of SCIENCE indexed journals:09

LIST OF ARTICLES PUBLISHED IN JOURNALS IN CHRONOLOGICAL ORDER:

1. **Ms.A.Anitha Ezhil Mangaiyar Karasi** and Dr.S.Seshadri published an article on

“SnS Thin Films Prepared By Chemical Spray Pyrolysis At Different Substrate Temperatures for Photovoltaic Application” in IOSR Journal of Applied Physics, Peer reviewed Journal, UGC, Google Scholar, Scopus indexed with Impact factor: 3.75, www.iosrjournals.org

E-ISSN: 2278-4861, Vol 10, Issue 4, Page No: 1-6, July 2018.

<http://iosrjournals.org/iosr-jap/papers/Vol10-issue4/Version-1/A1004010106.pdf>

2. **Ms.A.Anitha Ezhil Mangaiyar Karasi** and Dr.S.Seshadri published an article on

“Tin sulphide (SnS) Thin Films with Different [S]/[Sn] Ratios Prepared by Chemical Spray Pyrolysis Technique” in International Journal of Research and Analytical Reviews, Peer reviewed Journal, UGC, Google Scholar, Scopus indexed with Impact factor: 5.75 www.ijrar.org

E-ISSN: 2348-1269, P-ISSN: 2349-5138, Vol 6, Issue 1, Page No: 421-430, Jan 2019.

<http://www.ijrar.org/papers/IJRAR19J1056.pdf>

3. **Ms.A.Anitha Ezhil Mangaiyar Karasi**, Dr.S.Seshadri and Dr.L.Amalraj published an article on “Effect of Tin Precursor Concentration on Physical Properties of Spray Deposited Tin Sulfide Thin Films” in International Journal of Recent Scientific Research, Peer reviewed UGC, Google Scholar, Scopus indexed Journal with Impact factor: 7.38. www.recentscientific.com.

ISSN: 0976-3031, Vol 10, Issue 4(B), Page No: 31756-31762, April 2019.

<https://www.recentscientific.com/sites/default/files/13165-A-2019.pdf>

4. **Ms.A.Anitha Ezhil Mangaiyar Karasi**, Dr.S.Seshadri and Dr.L.Amalraj published an article on published an article on “Structural, Optical and Photosensing Properties of Spray Pyrolyzed SnSSe Thin Films” in International Journal of Current Advanced Research, Peer reviewed UGC, Google Scholar, Scopus indexed Journal with Impact factor: 6.614. www.journalijcar.org

ISSN(Online): 2319-6475, ISSN(Print): 2319-6505, Vol 8, Issue 3(G), Page No: 18047-18051, March 2019 .

https://journalijcar.org/sites/default/files/issue-files/9080-A-2019_0.pdf

5. **Ms.A.Anitha Ezhil Mangaiyar Karasi**, Dr.S.Seshadri and Dr.L.Amalraj published an article on “Optimization of substrate temperature in chemical spray pyrolysis technique to get p-type layers of SnSThin Films” in Aegaeum journal, UGC-CARE Approved Group ‘II’ Journal, www.aegaeumjournal.com
ISSN NO: 0776-3808, Scientific Journal Impact Factor – 6.1, journal, Volume 8, Issue 12, December – 2020, Page No:1-28.

<http://aegaeum.com/gallery/agm.j-4448.01-f.pdf>

6. **Ms.A.Anitha Ezhil Mangaiyar Karasi**, Dr.S.Seshadri and Dr.L.Amalraj published an article on “Effect of Precursor Concentration on Physical Properties of Nebulized Spray Deposited Tin Selenide Thin Films” in Aegaeum journal, UGC-CARE Approved Group ‘II’ Journal
ISSN NO: 0776-3808, Scientific Journal Impact Factor – 6.1, journal, Volume 8, Issue 12, December – 2020, Page No:45-72

<http://aegaeum.com/gallery/agm.j-4461.04-f.pdf>

7. Dr.A. Angelin prema., **Ms.A.Anitha Ezhil Mangaiyar karasi** , Dr..Arockiasahayaraj. published an article on “Characterization of Lead and Stannous Doped Cadmium Sulfide Thin Film Grown by Chemical Bath Deposition Technique with SEM and XRD Analysis. Alochana chakra journal,

ISSN NO:2231 3990-, Scientific Journal Impact Factor – 6.1, journal, Volume IX, Issue V, May/2020, page No: 1926 ,899 ACJ MAY 1926.pdf

8. **Ms.A.Anitha Ezhil Mangaiyar Karasi**, Dr.R.Sambasivam, Dr.S.Seshadri and Dr.L.Amalraj published an article on “Influence of Substrate Temperature on Physical Properties of Nebulized Spray Deposited Tin Selenide Thin Films” in ECS Journal Solid State Science and Technology, UGC-CARE Scopus Indexed Journal

ISSN NO: 2163-8777, Scientific Journal Impact Factor – 2.11, Volume 8, Issue 10, August 2021, Page No:45-72

<https://iopscience.iop.org/article/10.1149/2162-8777/ac1e6b/pdf>

9. **Ms.A.Anitha Ezhil Mangaiyar Karasi**, Dr.R.Sambasivam, Dr.S.Seshadri and Dr.L.Amalraj published an article on “Effect of Substrate Temperature on Structural,Electrical and Optical Properties of Spray Deposited Tin Selenide Thin Films Applicable for Photovoltaic Measurements” in ECS Journal Solid State Science and Technology, UGC-CARE Scopus Indexed Journal

ISSN NO: 2163-8777, Scientific Journal Impact Factor – 2.11, Volume 11, Number 2, February 2022

<https://iopscience.iop.org/article/10.1149/2162-8777/ac4ffd/pdf>

NATIONAL JOURNALS: 01

INTERNATIONAL JOURNALS: 08

**LIST OF PAPERS PRESENTED IN CONFERENCES IN CHRONOLOGICAL ORDER:
(MENTION IF IT IS PUBLISHED IN A CONFERENCE PROCEEDING)**

NATIONAL CONFERENCES :03

INTERNATIONAL CONFERENCES: 03

**PARTICIPATION IN WORKSHOP / CONFERENCES / SEMINARS / FDPs IN
CHRONOLOGICAL ORDER: (ITEMWISE)**

Papers Presented:

1. “SnS Thin Films Prepared By Chemical Spray Pyrolysis At Different Substrate Temperatures for Photovoltaic Application” in International conference ICRAM15 conducted by Anna university of Technology,Trichy.
- 2.“Preparation and Characterisation of SnS thin films by Chemical spray pyrolysis technique,ICRAM 17,August 31,Urumu Dhanalakshmi college,Trichy
3. “Tin sulphide (SnS) Thin Films with Different [S]/[Sn] Ratios Prepared by Chemical Spray Pyrolysis Technique”,ICRAM 18,KSR college of science,Tiruchengode.
4. “Effect of Substrate temperatures of spray deposited Tin Selenide thin films”, Nationalconference in National college on Feb 2019.
5. “Effect of Precursor Concentration on Physical Properties of Nebulized Spray Deposited Tin Selenide Thin Films”, AVVM Poondi pushpak college,National conference in Sep 2019.
6. “Effect of Precursor solution volume of sprayed SnSe thin films for Photovoltaic applications” National conference in Urumu Dhanalakshmi college on Feb 2020.

FDP

1. Participated in Five days Programme on “NAAN MUDALVAAN” Organized by Tamil Nadu Govt and BDU entitled “DATA ANALYTICS BY TABLEAU” from January 30th to February 5th 2023.
2. Advancements of IR Spectroscopy (AFM) by Bharat Ratna Prof. C.N. Rao Research Centre on September 29th 2023.

3. "Research to Publications" Organized by Adhiyaman College of Arts & Science from September 4th to 11th, 2023.
4. Material Technology in Current Scenario (MTACS'23) from 25th Oct to 1st Nov by Satyabhama Institute of Technology.

Any other services provided / Positions held during your tenure as Teacher:

Association secretary for the Department during the year 2010-2011 & 2023-2024

Any other information: (Awards won, books written, columns written, your strengths)

Published a Book Chapter on "Review on Tin (II) Sulfide Material" in "Advances in Science, Technology and Innovations" ISBN: 978-93-93737-59-5

Best Oral Presentation Award in Effect of Precursor Concentration on Physical Properties of Nebulized Spray Deposited TinSelenide Thin Films", AVVM Poondi Pushpam college, National conference in Sep 2019.

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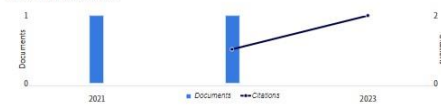
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Article
Effect of Substrate Temperature on Structural, Electrical and Optical Properties of Sprayed Tin Selenide Thin Films Applicable for Photovoltaic Measurements

3 Citations

Mangaiyar Karasi, A.E., Sambasivam, R., Srehanif, S., Amalraj
ECJ Journal of Solid State Science and Technology, 2022, 14(2), 024002

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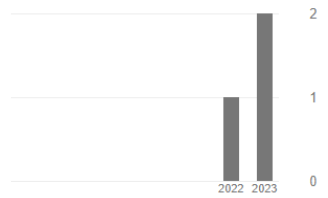
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<input type="checkbox"/>	Effect of substrate temperature on structural, electrical and optical properties of sprayed tin selenide thin films applicable for photovoltaic measurements AEM Karasi, R Sambasivam, S Seshadri ECS Journal of Solid State Science and Technology 11 (2), 024002	3	2022
<input type="checkbox"/>	Review on Tin (II) Sulfide Material DAA Dr.A.Anitha Ezhil Mangaiyar karasi		2022
<input type="checkbox"/>	Influence of Substrate Temperature on Physical Properties of Nebulized Spray Deposited SnSe Thin Films AAEM Karasi, S Seshadri, L Amalraj, R Sambasivam ECS Journal of Solid State Science and Technology 10 (8), 084008		2021
<input type="checkbox"/>	Effect of Precursor Concentration on Physical Properties of Nebulized Spray Deposited Tin Selenide Thin Films AEM Karasi Aegaeum journal 8 (12), 45-72		2020
<input type="checkbox"/>	Optimization of substrate temperature in chemical spray pyrolysis technique to get p-type layers of SnS Thin Films AEM Karasi Aegaeum journal 8 (12), 1-28		2020
<input type="checkbox"/>	Characterization of Lead and Stannous Doped Cadmium Sulfide Thin Film Grown by Chemical Bath Deposition Technique with SEM and XRD Analysis DA Ms.A.Anitha Ezhil Mangaiyar karasi ,Dr.A. Angelin prema. Alochana chakra journal 9 (5), 1926		2020
<input type="checkbox"/>	Effect of Tin Precursor Concentration on Physical Properties of Spray Deposited Tin Sulfide Thin Films AEM Karasi		2019

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- [Effect of Tin Precursor Concentration on Physical Properties of Spray Deposited Tin Sulfide Thin Films](#)
AEM Karasi
International Journal of Recent Scientific Research 10 (4), 31756-31762
2019
- [Structural, Optical and Photosensing Properties of Spray Pyrolyzed SnSSe Thin Films](#)
AEM Karasi
International Journal of Current Advanced Research 8 (3), 18047-18051
2019
- [Tin sulphide \(SnS\) Thin Films with Different \[S\]/\[Sn\] Ratios Prepared by Chemical Spray Pyrolysis Technique](#)
AAEM Karasi
International Journal of Research and Analytical Reviews 6 (1), 421-430
2019
- [SnS Thin Films Prepared By Chemical Spray Pyrolysis At Different Substrate Temperatures for Photovoltaic Application](#)
AEM Karasi
IOSR Journal of Applied Physics 10 (Issue 4), 1-6
2018
- [Optoelectronic Properties of Tin Chalcogenide Thin Films Prepared by Spray Pyrolysis Technique Applicable for Solar Cells](#)
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Tiruchirappalli