

**Dr.M.Dhanasekar M.Sc, Ph.D.,**  
**Assistant Professor,**  
**Dept of Physics,CET,SRMIST**  
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**Dr.M.Dhanasekar** Working as an Assistant Professor in the Department of Physics at SRMIST,Ramapuram. He graduated in Physics at Thiruvalluvar University Vellore Tamilnadu, India. he secured Master in Physics at SRM University, Chennai, India. He completed Ph.D in the field of Thinfilm solar cell at SRM University, Chennai, India. He is in teaching profession for nearly 3 years. He has presented number of papers in National and International Journals, Conference and Symposiums.

**Areas of Research:**

Thinfilm Solar cell, Photo catalyst, Sensors and Fuel cell

**Selected Publications:**

**WebofScience/SCI**

1. M. Dhanasekar, S. Sekar, S. Venkataprasad Bhat, Journal of colloid and interface science, 599, 2021, 326-331, Impact factor: 9.9
2. M.Dhanasekar, V. Jenefer, Reshma B. Nambiar,S. Ganesh Babu,S. Periyar Selvam, B.Neppolian,S. Venkataprasad Bhat\*, Materials Research Bulletin, 97 (2018) 238 Impact factor : 5.6
3. M.Dhanasekar, S. Venkataprasad Bhat\* Applied surface science, 418, 2017, 194-198. Impact factor: 7.3
4. M.Dhanasekar, Satyajit Ratha, Chandra Sekhar Rout,S. Venkataprasad Bhat\* Journal of Environmental Chemical Engineering, 5, (2017) 2997-3004. Impact factor :7.9
5. M. Dhanasekar , G. Bakiyaraj \*, K. Rammurthi, International Journal of ChemTech Research, Vol.7, No.3, pp 1057-1064, 2014-2015. Impact factor : 0.47

6. M. Dhanasekar, Dr. S.Venkataprasad Bhat\* Virtual 47th IEEE Photovoltaic Specialists Conference 15th June - 21st August, 2020
7. Moon Paul, M.Dhanasekar, S. Venkataprasad Bhat\* Applied surface science, 418, 2017, 113-118 Impact factor: 7.3
8. Bhuvaneshwari Ezhilmaran , M. Dhanasekar and SarpangalaVenkataprasad Bhat Nanoscale Advance., 2021 Impact factor: 5.5
9. E. Indubala, M. Dhanasekar, V. Sudha, E. J. Padma Malar, P. Divya, Jositta Sherine, Revathy Rajagopal, S. Venkataprasad Bhat and S. Harinipriya, RSC Advances, 8 (2018) 5350- 5361. Impact factor : 4.0
10. Ashwin Agathya Boochakravarthy, M. Dhanasekar, and S. Venkataprasad Bhat, AIP Advances, 10, (2020) 085127 Impact factor: 1.62
11. Sarpangala Venkataprasad Bhat, M. Dhanasekar, Kelly M Rickey, Xiulin Ruan Chemistry Select, 2 (2017) 10736 –10740. Impact factor : 2.3
12. Urmila Patila, M. Dhanasekar, Riddhi Kadrekara, A. Arya, S. Venkataprasad Bhat\* and Dattatray J. Late\* "Efficient humidity sensor based on surfactant free Cu<sub>2</sub>ZnSnS<sub>4</sub> nanoparticles" Ceramics International, 48,2022,28898-28905 .Impact factor : 5.5
13. M. Dhanasekar, S. Ratha, C. S. Rout\*, S. Venkataprasad Bhat\* Ceramics International, 48,2022,29460-29464, Impact factor : 5.5

#### **Patent:**

M.Dhanasekar, S.Venkataprasad Bhat\* A composition for preparing CZTS thin films and a process for preparing the composition” Granted on 22.07.2021

#### **Scholarship and Awards**

- Visiting PhD Student in Open University, United Kingdom through Royal Society International Exchange Grant. o Council for Scientific and Industrial Research –Senior Research Fellow Award .
- “Second rank” in M.Sc conducted by SRM University.
- BSc Physics (First class with distinction)

#### **Magazine Published:**

- New molecular precursor for kesterite solar cells <https://www.pv-magazine.com/2020/09/18/new-molecularprecursor-for-kesterite-solar-cells/Work>

## **Professional activities**

- Workshop on Communication Systems & Solar Cell Technology\* for the Students of classes 11 &12- Reg (Delivered talk)
- Experience to organize International and national webinar, Student events  
Delivered invited talk on "Low Temperature Fabrication of Metal chalcogenide Semiconductor Films for Solar Energy Conversion"\_ "SATU Presidents' Forum 2022 -JRS Sustainability WebinarSeries on 29th July 2-3
- Reviewed international journals like AIP Advances, ACS omega, Material Science Engineering B, Journal of Nanostructure in chemistry, Royal Society Open Science

## **Professional Bodies:**

Member – ISCA

## **Google Scholar:**

<https://scholar.google.com/citations?user=Erk0MeAAAAAJ&hl=en&oi=sra>

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