Faculty Profile

Name : D.SASIKUMAR
Designation : Assistant Professor
Address : Department of Physics
Chikkanna Government Arts College, Tiruppur
Tamilnadu, India 641602

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Date of Joining in Collegiate Education : 17.08.2015
Date of Joining in the Present College : 03.12.2024
Academic Profile :

Degree	Institute/College	University	Period
B.Sc. Physics	Chikkaiah Naicker College, Erode	Bharathiar University	1993-1996
M.Sc. Physics	Chikkaiah Naicker College, Erode	Bharathiar University	1996-1998
M.Phil. Physics	Chikkaiah Naicker College, Erode	Bharathiar University	2001-2003
Ph.D. Physics	Govt. College of Technology, coimbatore	Anna University	2008-2012

Teaching Experience :

i)	**Total**	:26	**Years**	**01**	**Month**
ii)	**UG**	:26	Years	01	Month
iii)	**PG**	:09	Years	05	Month

Name of the college	Position held	Period
Chikkanna Govt. Arts College	Assistant Professor	December'2024 to till date
Arignar Anna Govt. Arts College	Assistant Professor	2015-2024
Velalar College of Engineering and Technology	Professor/ Associate Professor / Assistant Professor	2001-2015
Maharaja Engineering College	Lecturer	2000-2001
Maharaja Polytechnic College	Lecturer	1998-2000

Honors and Research Awards: NA

Field of Interest **:** Thinfilms and Nanotechnology

Teaching **:** 26 Years 01 month.

i) **Research** **:** 16 years.

ii) Guidance Number: Periyar University – PU/ R/ RD3/ 06147 / 2015 Dt: 07.01.2016
Bharathiar University - Guideship Applied

(If have more than one university, given them against university name)

S. No	M.Phil/Ph.D	Name of the Student	Thesis Title	Completed /ongoing
1.	**Ph.D.**	R.Manonmani	Evaluation of in virto antibacterial and anticancer activities of green synthesis Cuo nanoparticles using Tabernaemontana divaricate, Euphoribiahirta and Daturametel leaf extract.	Completed
2.	**Ph.D.**	S.Manikandan	Systematic investigation on Photocatalytic and super capacitor applications of Phosphorus doped MnO_2 nanoparticles with carbon based materials	Completed
3.	**M.Phil.**	S.Ramya	Synthesis and characterization of pure and Fe doped Co_3O_4 Nanoparticles	Completed
4.	**M.Phil.**	V.Anandharaj	Synthesis and characterization of pure and Cobalt doped Fe_2O_3 Nanoparticles	Completed
5.	**M.Phil.**	V.Gomathi	Synthesis and characterization of pure and Cobalt doped MnO_2 Nanoparticles	Completed
6.	**M.Phil.**	P.Sowmya	Synthesis and characterization of pure and Nickel doped MnO_2 Nanoparticles	Completed
7.	**M.Phil.**	S.Nithya	Preparation and characterization of pure and Ni doped ZnO thinfilm by Dip coating method	Completed
8.	**M.Phil.**	S.Saradha	Preparation and characterization of pure and Al doped ZnO thinfilm by SILAR method	Completed

Funded Projects

- One year TNSCST funding project have got three times

Membership in Professional Bodies :

- Life Member-ISTE

Conference/Seminars Organized

S. No.	Program Title	Period	National/ International	Funding Agency
1.	Nano materials in Solar Cell applications	14.03.2014	National	CSIR ,New-Delhi
2.	Rocket Science	21.02.2020	National	--

3.	Workshop on Conceptual Physics Through Demonstration	30.11.2021	National	
4.	National Conference on Recent Trends in Material Sciences	02& 03.03.2023	National	TANSCHE & TNSCST
5.	Webinar on research Opportunities for Physical Science students in India and Abroad	02.03.2024	National	---
6.	Workshop on How to crack CSIR –NET /GATE/JEST/JAM/CUTE	23& 24.12.2024	National	TNSCST

Faculty Development Programs Attended :

Course	University/Institute	Subject	Period
Orientation Course	Bharathiar University	Physics	15.12.2016 to 12.01.2017
Refresher Course	Bharathiar University	Physics	23.11.2018 to 13.12.2018
Refresher Course	University of Madras	Physics	27.11.2020 to 10.12.2020
Refresher Course	Bharathidasan University	Environmental Science	02.02.2022 to 15.02.2022
Refresher Course	Pondicherry University	Material science and Nanotechnology	15.10.2024 to 28.10.2024

Academic Activities :

i) Subject Handled : UG and PG

ii) Class Advisor : UG and PG

Co-curricular and extracurricular activities Professional Activities :

i) Reviewer

- Reviewer of Journal of nanoparticle research and Science International

ii) Examiner/Scrutiny

- Member-Panel of Question Paper Setters/External Examiner(Theory/Practical's) ofVarious Universities/Autonomous Colleges- 2015 Onwards

Book / Book Chapters :

S.No	Title	Year
1.	D.SASIKUMAR Engineering Physics I - KKS Publishers ISBN : 978-93-83216-13-0	**2013**
2.	D.SASIKUMAR Engineering Physics II - KKS Publishers ISBN : : 978-93-83216-14-7	**2013**

Research Publications:

S. No	Title of the paper	Name of the Journal	Month and year	Name of the Author	Link
1	Hybrid activities of biogenically enhanced Datura metel and copper oxide nanoparticles for photocatalytic and anti-cancer study	Ionics Springer Nature	09-2024	D.Sasikumar R.Manonmani	https://link.springer.com/journal/11581
2	Synthesis, structural, and optical properties of MnO2/AC/r-GO nanocomposites for highly efficient under visible light photocatalytic activity	Ionics Springer Nature	07-2024	S.Manikandan	https://link.springer.com/journal/11581
3	Enhancing Photocatalytic activity through 2D heterostructured P/MnO_2/r-GO nanocompositees : a study on synthesis , structure, and optical Properties	Ionics Springer Nature	07-2023	D.Sasikumar S.Manikandan	https://link.springer.com/journal/11581
4	Improved anti-diabetic and anticancer activities of green synthesized CuO nanoparticles derived from Tabernaemontana divaricate leaf extract	Environmental Science and Pollution Research	03-2023	D.Sasikumar R.Manonmani	https://link.springer.com/journal/11356
5	Improving sunlight-photocatalytic activity of undoped and phosphorudoped MnO2 with activated carbon from bio-waste with nanorods morphology	Inorganic Chemistry Communications	08-2022	D.Sasikumar	https://www.sciencedirect.com/journal/inorganic-chemistry-communications
6	Bifunctional activities of Phosphorus doped MnO2 With activated Carbon From Manilkara zapota peel bio – Waste for Supercapacitor and Phtocatalytic degradation of Organic dye.	Ionics Springer Nature	12-2022	D.Sasikumar	https://link.springer.com/journal/11581
7	Synthesis, Structural and optical Properties of Phosphour doped MnO2 nanorodes as an under sunlight illumination with intensify photocatalytic for the degradation of organic dyes	Optick – International Journal for Light and Electron Optics	04-2022	D.Sasikumar	https://www.sciencedirect.com/journal/optik
8	Effect of Current density on electrodeposited Cobalt Ferrous tungsten magnetic Thin films	Digest Journal of Nanomaterials and Biostuctures	07-2021	N.Thangaraj	https://chalcogen.ro/index.php/journals/digest-journal-of-nanomaterials-and-biostructures
9	A comparative study of sodium hypophosphite and	Journal Of Optoelectronics	01-2014	N.Thangaraj	https://joam.inoe.ro/

	phosphorous acid on the Ferrous Tungsten Phosphorous thin films	And Advanced Materials			
10	Effect of current density on electrodeposited ferrous tungsten thin films	Indian Journal of Pure & Applied Physics	06-2014	N.Thangaraj	http://op.niscair.res.in/index.php/IJPAP
11	Effect of NaH2PO2 on Electrodeposited Ferrous Tungsten Phosphorous Thin Film	International Journal of ChemTech Research	01-2014	N.Thangaraj D.Sasikumar	https://www.sphinxsai.com/chemtech.php
12	Structural and Magnetic Properties of Ferrous Tungsten Phosphorous Thin Film	International Journal of ChemTech Research	01-2014	N.Thangaraj	https://www.sphinxsai.com/chemtech.php
13	Effect Of Phosphorous Acid And Urea On The Ferrous Tungsten Phosphorous Magnetic Thin Film	Digest Journal of Nanomaterials and Biostuctures	01-2014	N.Thangaraj	https://chalcogen.ro/index.php/journals/digest-journal-of-nanomaterials-and-biostructures
14	Effect of Temp and additives on Electrodeposited CoWP magnetic thin film	Chalcogenide letters	01-2012	D.Sasikumar S.Ganesan	https://chalcogen.ro/index.php/journals/chalcogenide-letters
15	Effect of Temp and additives on Electrodeposited CoWP magnetic thin film	Journal Of Optoelectronics And Advanced Materials	05-2011	D.Sasikumar	https://joam.inoe.ro/
16	Effect of temperature and current density in electrodeposited Co-W magnetic nano thin film	Digest Journal of Nanomaterials and Biostuctures	08-2010	D.Sasikumar	https://chalcogen.ro/index.php/journals/digest-journal-of-nanomaterials-and-biostructures