: FACULTY DETAILED RESEARCH DATA:

Name of the Faculty: Dr. Shilpa Maity

Designation: Assistant Professor

Department: Physics

School: Basic Science

Research Area: Study of the nanostructured thermoelectric materials (both inorganic and

organic), Nanocomposites, Structural and Electrical parameters.

Details of research portfolio of faculty:

A. Researcher's ID details:

Google Scholar ID: wC40UqQAAAAJ Orchid ID: 0000-0003-3852-7417

Scopus ID: 57194465407 **Vidwan ID:** 584359

B. Publication details:

1. Conference proceedings/ Conference paper:

Sl. No.	Name of the Conference	Title of the paper	Month & Year of Publication	Author(s) Name	National/ Internationa	doi number (if any)	ISSN/ISBN no.
1	61 st DAE Solid State Physics Symposium	Enhanced thermoelectri c performance of template based nanostructure d polyaniline	May 2017	Shilpa Maity, Subhra Rakshit, Sukhen Das, Krishanu Chatterjee	International	10.1063/1. 4980677	0094243X, 15517616

2.	2019	Semiconduct	February 2020	Sajal	T	10.1100/76	070 1 7301
	International	or to metallic		Biswas; Shilpa	International	10.1109/IC	978-1-7281-
	Conference	transition of		Maity; Krishanu		CECE44727	0697-7
	on Computer,	Bismuth		Chatterjee		.2019.90019	
	Electrical &	Telluride		-		02.	
	Communicati	with				02.	
	on	incorporation					
	Engineering	of Graphene-					
	(ICCECE)	Its enhanced					
		thermoelectri					
		c properties					

2. Publications in SCI/Scopus indexed Journals:

SI. No	Name of the Journal (mention SCI/scopus)	Title of the paper	Month & Year of Publication	Author(s) Name (Highlight the corresponding and 1 st author in every article)	doi number	Issue No. &Volu me No.	Page no.	ISSN of the journal
1.	Chemistry Select (SCI)	Enhancement of Thermoelectric Performance in Oligomeric PEDOT- SWCNT Nanocomposite via Band Gap Tuning	August 2018	Shilpa Maity, Nayim Sepay, Chiranjit Kulsi, Arpan Kool, Sukhen Das, Dipali Banerjee, Krishanu Chatterjee*	10.1002 /slct.201 801384	Issue- 31 Vol- 3	8992- 8997	2365- 6549
2.	Materials Research Express (SCI)	Dependence of thermoelectric power and electrical conductivity on structural order of PEDOT-Tosgraphene nanocomposite via charge carrier mobility	September 2019	Shilpa Maity, Chiranjit Kulsi, Shiladitya Banerjee, Sukhen Das, Krishanu Chatterjee*	10.1088 /2053- 1591/ab 3e7c	Issue- 10 Vol- 6	10509 5	2053- 1591

3.	Inorganic Chemistry (SCI)	Gd(III)-Doped Boehmite Nanoparticle: An Emergent Material for the Fluorescent Sensing of Cr(VI) in Wastewater and Live Cells	June 2019	Shubham Roy, Kunal Pal, Souravi Bardhan, Shilpa Maity , Dipak Kr. Chanda, Saheli Ghosh, Parimal Karmakar, and Sukhen Das*	10.1021/ acs.inorg chem.9b 00425	Issue- 13 Vol- 58	8369– 8378	0020- 1669
4.	Polymers for Advanced Technologies (SCI)	Poly(3,4 ethylenedioxythi ophene)- tosylate—Its synthesis, properties and various applications	April 2021	Shilpa Maity, Salini Datta, Megha Mishra, Shiladitya Banerjee, Sukhen Das, Krishanu Chatterjee*	10.1002/ pat.5193	Issue- 4 Vol- 32	1409- 1427	1042- 7147
5.	Smart Materials and Structures (SCI)	Polymer chalcogenides—new smart materials for thermoelectric applications,	June 2022	Shilpa Maity, Umme Karnij Salma Parvin, Sukhen Das and Krishanu Chatterjee	10.1088/ 1361- 665X/ac 7595	Issue- 7 Vol- 31	07300	0964- 1726
6.	Chemnanomat (SCI)	Improved thermoelectric properties of selenium functionalized pedot.	April 2024	Shilpa Maity, Aniket Mondal, Sukhen Das, Krishanu Chatterjee*	10.1002/ cnma.20 2400015	Issue- 7 Vol- 10	e2024 00015	2199- 692X

7. Book chapter:

Sl. No.	Title of the book	Publishers	Author(s) Name (Highlight the corresponding and 1st author in every article)	Year	ISBN No.	doi no. (if applicable)
1	Dye Sentisized Solar		MD Alif Bakas, Krishanu			
1.	Cell Based On PEDOT-		Chatterjee, Shilpa Maity			
	TOS Counter Electrode					
2.	"An Extensive Study of		Sudip Sarkar, Krishanu			
۷.	Photo thermoelectric		Chatterjee, Shilpa Maity			

3.	materials For Device Applications Synthesis and Thermoelectric Characterization of Pedot-Tos/Tin Selenide Nanocomposite	AkiNik Publications	Swagata Majumder, Krishanu Chatterjee, Shilpa Maity	2024	978-93- 6135-429-8	10.22271/ed.book. 2938
4.	Enhanced Thermoelectric Properties of pTSA doped PEDOT/Bismuth Nanocomposite		Subhra Raksit, Krishanu Chatterjee, Shilpa Maity			
5.	Thermoelectric Propertise of Zinc- Incorporated Reduced Graphene Oxide- polyaniline composite		Shilpa Maity, Krishanu Chatterjee			

4. Text/Reference book published from reputed national/international publishers:

Sl. No.	Title of the Text/Reference book	Publishe rs	Author(s) Name (Highlight the corresponding and 1st author in every article)	Year	ISBN No.	doi no. (if applicable)

5. Project granted:

Sl. No	Sponsoring Agency	Name of the project	Duration		Amount in Lakhs	PI/ CO-PI
NO			Starting Month & Year	Ending month & Year		
1.	DST, India	DST Women Scientist Scheme A	December 2020	December 2023	19,58,947	PI

6. Consultancy Project Grant:

SI No.	Project title	Funding Agency	Duration	Completed (yes/no)	Sanctioned amount (in Rs.)	PI and CO-PI (if any)

7. Patent/IPR granted:

Sl. No.	Name of the patent	Name of the applicant	Name of the inventor	Date of File	Date of Publication	Whether Granted (yes/no); If yes, Date of Grant	Application No.