	DR. SUKHEN	IDU SADHUKHAN			1	
\$ +919230125070) Noapara, Chandannagar,	Hooghly, West Bengal, India-712138.	🖂 suki	hendusadhukhan@gmail.com		
Professional Summary	Myself Dr. Sukhendu Sadhukhan. During my research period, I have one patent published and more than ten articles published in reputed high-impact international journals. I developed few lab instruments for research purposes with my knowledge of hardware, electronics, and LabView software. I also have a deep understanding of programming languages like C, Java, JavaScript, etc., and I also developed many web apps and Android apps. I have qualified for the National Eligibility Test (NET) in Physical science twice and GATE in Physics. And have a teaching experience in degree and engineering colleges, including as a private tutor for more than ten years upto graduation students.					r. Nakul dhukhan rs. Mira
Highlights	 Have a Patent Published Qualified NET with JRF twice Developed Lab Instruments Android App ≫ and Web App Developer Published more than ten papers in prestigious international Journal Can operate instruments like XRD, FESEM, VSM, PPMS, P.E. Loop tracer, JV Tracer, Dielectric Measurement etc. 				I, Date of : 05	
Professional experience	Research Fellow 07/2018 - 07/2023 Burdwan, IndiaTeaching1. Guest Lecturer of Physics Honours at Department of Physics, Khalisani Mahavidyalaya 2. Assistant Professor of Physics at Dr. Sudhir Chandra Sur Institute of Technology01.06.2023-01.09.2023 22.07.2023-Till Now					ndu ngle engali, Englis
Education	Secondary: Qualified Madhyamik from Nawpara High School under W.B.B.S.E. in 2009, with Distinction (80.50%) being School Topper. Known Higher Secondary: Qualified H.S. in Science from Chandannagar Bangavidyalaya under W.B.C.H.S.E. in 2011, with First class (73.40%). Graduation: Qualified B.Sc. (Honours) in Physics from The University of Burdwan in 2015, with First class (60.38%) being College Topper. Post-Graduation: Qualified M.Sc. in Physics from The University of Burdwan in 2017, with First class (8.16 CGPA ≈ 76.60%). National Level Examinations: Qualified UGC-CSIR NET JRF (Twice) [2016 (AIR 163) and 2017 (AIR 63)], GATE Qualified. Ph.D.: Awarded on 04.09.2023 under the supervision of Prof. Pabitra Kumar Chakrabarti from The University of Burdwan - Burdwan, West Bengal. Form The University of Burdwan - Burdwan, West Bengal. Thesis Title: To study the Magneto-Electric behavior of some nanocrystalline, nanocomposite and bulk Multiferroics prepared by Chemical and Solid-state reaction routes. Known					
Research Information	<i>Research Interest:</i> Multiferroics [Nanomaterials, nanocomposi [Structure-property relationshi	tes (Synthesis, Characterization, and Appli		lography, Structural and micro Ferroelectric, J-E, and Magneto		_
Patant: A field	has ad kit and mathod for screening	g of hemoglobinopathy condition from nori	mal No. 202031035500	Summ	nary	
Published or	a 25 th February 2022 at IP India, A	ani ang	itra Kumar Chakrabarti,	No. of papers published in reputed International Journ		12 1 06
Mitra.				2 No. of Conference Particip 2 No. of poster/oral	oated National	07
Publications:				Presented in conferences	International	02
		ng observed in nanocrystalline HoFeO ₃ , Sukh		3 Workshop Attended		02
	Ayan Mitra, Pabitra K. Chakra. Icom.2022.164443), I.F 6.371 .	barti*, Journal of Alloys and Compoun	ds, 2022, 907, 164443,	4 h - index 5 i -10 index		06
		d nanocomposite system of $(Y_{0.97}Al_{0.03}FeO_3)_x(0)$	$(Bi_{0.5}Na_{0.5})_{0.94}Ba_{0.06}TiO_3)_{(1-x)}$			03 6.5
		a, Abhik S. Mahapatra, Chandi Charan Dey Materials, 2022, 559, 169553, (10.1016/j.jmm		- <u> </u>		0.0
 Strong moduli Abhik S. Mahi 129, 68, (10.1 Room Temper Mahapatra, P Enhanced mu 	ation effects on magnetoelectric beha apatra, Ayan Mitra, Nupur Bhakta, S 007/s00339-022-06345-8), I.F 2.98 vature Multiferroicity of Hexagonal L abitra K. Chakrabarti*, Journal of Au ltiferroicity of Ho0.95C00.05Fe0.95Ti0.05C	vior of Co-ferrite nanoparticles incorporated ouvick Das, Ayan Mallick, Anupam Banerjee,	in ZnO medium in nano-re Souvik Chatterjee, J. M. Gr Lu _{0.9} Co _{0.1} Fe _{0.9} Ti _{0.1} O ₃ Nanop 1016/j.jallcom.2023.170351 m, Sukhendu Sadhukhan,	gime synthesized in chemical ro reneche & Pabitra K. Chakrabar particle System, Sukhendu Sadh 1), I.F 6.371 .	rti*, Applied Physic. nukhan, Ayan Mitra	s A, 2023, , Abhik S.
Magnetism an 7. Magnetic Ene	nd Magnetic Materials, 2022, 564, 170 rgy Morphing, Capacitive Concept fo	_{0.85} Nd _{0.15} Fe _{0.9} Ti _{0.1} O ₃ , Nupur Bhakta, Sukhend D208, (10.1016/j.jmmm.2022.170208), 1.F3.0 Dr Ni _{0.3} Zn _{0.4} Ca _{0.3} Fe ₂ O ₄ Nanoparticles Embedde	97. ed in Graphene Oxide Matr	ix, and Studies of Wideband Tu	nable Microwave A	bsorption,
46967–46979,	, (10.1021/acsami.1c10241), I.F. - 10. .	n Mitra, Madhumita Dalal, Anirban Shaw, A 38. erroic properties of co-doped YFeO3 towards			v	
Sukhendu Sa 9. Electromagne	dhukhan, Amitabh Das, Souvik Chatt tic shielding performance of Co _{0.5} Zn ₀	erjee, Pabitra K. Chakrabarti*, Advanced Pov 0.4Cu _{0.1} Fe ₂ O ₄ -GO/paraffin wax hybrid nanocon Cadhukhan, Pabitra K Chakrabarti*, Material.	vder Technology, 2022, 23, nposite through magnetic e	6, 103622, (10.1016/j.apt.2022, nergy morphing prepared by fac	103622), I.F 4.969 cile synthesis metho). d, Chandi
 Rietveld analy Sadhukhan, 2 Hopping cond Chandi Chandi Microwave ab 	Anna Bajorek, P. K. Chakrabarti*, Ma duction of localized polarons with sc in Dey, P.K. Chakrabarti*, Materials psorption and hyperthermia properties.	and ferroelectric properties of Gd ³⁺ and Ti ⁴⁺ aterials Science and Engineering: B 2021/2, 20 aling behaviour in multiferroic ceramic comp Science and Engineering: B 2023, 297, 11672 s of titanium dioxide - nickel zinc copper ferrit che, Pabitra Kumar Chakrabarti*, Journal of J	54, 114810, (10.1016/j.mseb posite (YCrO ₃) _{1-x} - (CoFe _{1.6} 0, (10.1016/j.mseb.2023.11) e nanocomposite, Ayan Mal	2.2020.114810), I.F 3.407. Cr _{0.4} O ₄) _x , Souvick Das, Sukhen 6720), I.F 3.6. 'lick, Chandi Charan Dey, Sukh	du Sadhukhan, Ay endu Sadhukhan, S	van Mitra, Sujay Das,
<i>I.F3.097</i> .	of magnetodielectric properties along	g with negative magnetization in Ba and Ni co				
	om temperature multiferroicity in sol	-gel derived Holmium, Titanium doped YFeO	3 nanoceramics, Souvick D	Das, Ayan Mitra, Sukhendu Saa	lhukhan, P.K. Cha	krabarti*,

(Under Review). **15.** Synthesis and characterization of Ag-decorated Co ferrite nanoparticles embedded in MWCNT for biomedical application, Ayan Mallick, Madhumita Dalal, Chandi Charan Dey, **Sukhendu Sadhukhan**, Sujay Das, Raghumani Singh Ningthoujam, Jean-Marc Greneche, Pabitra Kumar Chakrabarti*, (Under Review).

16. Study on Structural and Dielectric Behaviour of Li_{0.3}Zn_{0.3}Co_{0.1}Fe_{2.3}O₄, Madhumita Dalal, Sukhendu Sadhukhan, Pabitra Kumar Chakrabarti*, (Under Review)

- 17. Review on synthesis and characterization of TiO₂ nanoparticles: A potent antimicrobial and drug delivery agent, Moupiya Ghosh*, Susomoy Datta, Anindya Roy, Sukhendu Sadhukhan, Uttam Acharya, Samir Mandal (Under Review).
- 18. Burdwan University Thalassemia Severity (BUTS) Scoring System: A numerical Method For Defining the Clinicopathological status of Thalassaemia Patient Anupam Basu, Prosanto Chowdhury, Tamoghna Chowdhuy, Sukhendu Sadhukhan, Pabitra Kumar Chakrabarti, Dipankar Saha, Debashis Pal (Under Review).

Workshops and Conferences Attended:

Seminar and Conferences:

- i. Oral Presented on 'Study on Structural and Dielectric Behaviour of Li_{0.3}Zn_{0.3}Co_{0.1}Fe_{2.3}O₄', at the International Conference 'Third *Global* Conference on Recent Advances in Sustainable Materials (GC-RASM 2023)', held during 27-28 July 2023, organized by the Department of Mechanical Engineering, PGP College of Engineering & Technology, Tamil Nadu, India.
- ii. Oral Presented on 'Enhanced magnetic properties of Al-doped YFeO₃', at the International Conference on Crystal Growth and Spectroscopy, held during 29-31 August 2022, organized by the Department of Physics, St. Joseph's College, In collaboration with SSN Research Centre, SSN Institutions, In association with Indian Association for Crystal Growth (IACG) and Indian Spectro Physics Association (ISPA).
- iii. Poster Presentation on 'Magneto-electric properties of cobalt ferrite nanoparticles incorporated in ZnO host' National Seminar on Recent Trends in Condensed Matter Physics including Laser Applications (NCMPLA 2020), held during 13-14 February 2020, organized by the Department of Physics, The University of Burdwan.
- iv. Poster Presentation on 'Synthesis and Characterization of hexagonal LuFeO₃ Ceramics and Study of its Electric and Magnetic Characteristics' National Seminar on Recent Trends in Condensed Matter Physics including Laser Applications (NCMPLA 2019), held during 16-18 January 2019, organized by the Department of Physics, The University of Burdwan.
- v. Poster Presentation on '*Enhanced magnetic, dielectric and ferroelectric properties of LaugEru1FeO3*', at Condensed Matter Days (CMDAYS 2018), a National Conference on Condensed Matter Physics, held during 29-31 August 2018, organized by the Department of Physics, The University of Burdwan.
- vi. Participated at National Seminar on Recent Trends in Condensed Matter Physics including Laser Applications (NCMPLA 2017), held during 8-9 March 2017, organized by the Department of Physics, The University of Burdwan.
- vii. Participated at One-Day National Seminar on International Year of Light: Centenary of Einstein's Equation of General Theory of Relativity, on 31st March 2016, organized by the Department of Physics, The University of Burdwan, Sponsored by the Department of Science and Technology, Government of West Bengal.

Workshops:

- 1. Three days workshop on 'Workshop on Rietveld Refinement Method' (Participant), on 22-24 September 2022, organized by UGC-DAE Consortium for Scientific Research, Mumbai Center in association with Indore Center.
- Seven days workshop on 'Analytical Technique in Modern Biology (AMTB- 2022)' (Trainer), from 21st to 27th April 2022, organized by the Department of Biotechnology, The University of Burdwan and Sponsored by the Department of Science & Technology and Biotechnology (DSTBT), Government of West Bengal.

Scientific Milestone

Patent: A field-based kit and method for screening of hemoglobinopathy condition from normal, No.- 202031035590, Published On 25th February 2022.

Automation of Instruments:

- i. An LCR meter (Hioki 3250) and PID temperature controller (Eurotherm 2404) are connected and interfaced with PC using LabView programming by me, to automatically record, and process the data with live graphical visualization of variations.
- ii. A sourcemeter (Kithley 2600 B) is interfaced with PC using LabView programming by me to record the JE characteristics of a sample in continuous bipolar voltage variation with all customization options.

Awards:

- 1. Young Researcher Award 2022 from InSc (Institute of Scholars).
- 2. Research Fellowship from UGC-CSIR in 2016 and 2017.

Skills and Interests:

1. Skilled in the synthesis of various nanomaterials, and nanocomposites. 2. Device interfacing with PC through GPIB, RS232, etc. using LabView programmin				
3.Can learn any instrument in detail very fast using previous experiences				
Instruments used:	Survey Servey Se			
	LCR Meter High-Temperature Dielectric Setup, 🛠 Metis BH Loop Tracer, 🛠 Vector Network Analyzer, 🛠 TGA-DSC, 🛠 Mössbauer Spectroscopy, 🛠 Thermoline Furnace;			
Computer packages:	Origin, & MAUD, & VESTA, & ImageJ, & LabView, & SciLab, & Android Studio, & Adobe Photoshop, & MS Office.			
Programming Known:	◆ C, ◆ JAVA, ◆ JavaScript, ◆ Python, ◆ LabView.			
Hobbies:	Android and Web Development, Programming, etc.			

Declaration

I hereby declare that the above-mentioned particulars are true to the best of my knowledge, and I bear the responsibility for the correctness of the above-mentioned particulars. Yours Sincerely,

Sukhendu Cadhukhan. Sukhendu Sadhukhan

References

Dr. Pabitra Kumar Chakrabarti, Professor Department of Physics The University of Burdwan, Golapbag, Burdwan-713104, West Bengal, India. Mobile: +91-8240067275 E-mail: *pkchakrabarti@phys.buruniv.ac.in* Dr. Sourangshu Mukhopadhyay Professor Department of Physics The University of Burdwan, Golapbag, Burdwan-713104, West Bengal, India. Mobile: +91-9434160599 E-mail: sourangshu2004@yahoo.com

