BIO-DATA

1. **Name and full correspondence address**

Dr. Swagatadeb Sahoo

Assistant Professor

Department of Electronics & Communication Engineering.

National Institute of Technology-Jamshedpur, Jharkhand, Pin-831014, India.

2. **Email(s) and contact number(s)**

swagatdebmsit@yahoo.co.in; swagatadeb.ece@nitjsr.ac.in

M-9434369728

3. **Institution**

National Institute of Technology-Jamshedpur, Jharkhand, India.

4. **Date of Birth**

21.11.1977

5. **Gender (M/F/T)**

Male

6. **Category Gen/SC/ST/OBC**

General

7. **Whether differently abled (Yes/No)**

No

8. **Academic Qualification (Undergraduate Onwards)**

	Degree	Year	Subject	University/Institution	% Marks
1.	B.E	2001	Instrumentation and Electronics Engineering	B.M.S College of Engineering,Bangalore University, India.	73.38
2.	M.E	2010	Electronics and Communication Engineering	Birla Institute of Technology (Mesra), Ranchi, India.	77
3.	Ph.D	2014	Microwave , Broadband Dielectric Spectroscopy, Material Property	Jadavpur University, Kolkata, India.	

9. **Ph.D thesis title, Guide's Name, Institute/Organization/University, Year of Award**

Ph.D thesis title**: "**Dielectric relaxation of some interesting binary and single polar liquid mixtures in non polar solvents measured at 10 GHz electric field to study the structural and associational aspect."

Guide's Name: Prof Tapas Ranjan Middya

Institute/Organization/University: Jadavpur University, Kolkata, W.B, India

Year of Award: March, 2014

10. **Work experience (in chronological order)**

Sl No	Positions held	Name of the Institute	From	To	Pay Scale
1.	Assistant Professor	National Institute of Technology-Jamshedpur, Jharkhand, India	14.06.2018	Till date	15600-39100
2.	Assistant Professor	National Institute of Technology-Silchar, Silchar, Assam, India	11.07.2016	12.06.2018	15600-39100
3.	Lecturer	Dr.MeghnadSaha Institute of Technology (Government of West Bengal),Haldia, W.B,India	05.04.2005	30.06.2016	21480
4.	Service Engineer	Satyen Construction, Haldia, West Bengal, India	02.11.2001	04.04.2005	10000

11. **Professional Recognition/Award/Prize/ Certificate, Fellowship received by the applicant**

S.No	Name of Award	Awarding Agency	Year
1	UGC-NET(Assistant Professor)	UGC	2014
2	Assistant Professor 1st Rank	West Bengal College Service Commission	2015

12. **Detail of patents:**

S.No	Patent Title	Name of Applicant(s)	Patent No	Award Date	Agency/Country	Status
1	A system and a process for evaluating dielectric relaxation in dipolar liquid.	Swagatadeb Sahoo	2020104029	10.02.2021	Australian Government/IP Australia	Granted
2	A method for developing corn husk-based microwave absorber	Swagatadeb Sahoo			Australian Government/IP Australia	Filed

13. **Publications (List of papers published in SCI Journals, in year wise descending order)**

S.No.	Author(s)	Title	Name of Journal	Volume	Page	Year
1	S.S.Pattanayak, S.H.Laskar, & S.Sahoo	Microwave Absorption Study of Dried Banana Leaves Based Single Layer Microwave Absorber.	Int. J. Microw. Wire. Techn.	13(2)	154-163	2021
2	S.S.Pattanayak, S.H.Laskar, & S.Sahoo	Design and Development of Banana Leaves based Double-Layer Microwave Absorber.	IETE Journal of Research	Doi: 10.1080/03772063.2020.1844073		2020 (accepted)
3	S.S.Pattanayak, S.H.Laskar, & S.Sahoo	Investigation of organic corn husk-based flat microwave absorber.	Int.J. Microwave and Wireless Technologies	Doi: 10.1017/S1759078720001555.		2020 (accepted)
4	S.S.Pattanayak, S.H.Laskar, & S.Sahoo	Progress on Agricultural Residue Based Microwave Absorber: A Review and Prospects.	J. Mater. Sci.	56	4097–4119	2021
5	S.S.Pattanayak, S.H.Laskar, & S.Sahoo	Microwave absorption performance enhancement of corn husk-based microwave absorber	J. Mater. Sci: Materials in Electronics	32	1150-1160	2021
6	D.Kumar, S.K.Sit, S.N.Singh & S.Sahoo	Dielectric relaxation behaviour of amide and phenol mixture in C_6H_6 under microwave field,	J.Solution. Chem	50(5)	690-722	2021
7	T.Bachhar, S.K.Sit, S.H.Laskar & S.Sahoo	Investigation of dielectric relaxation in Tributyl phosphate from susceptibility and conductivity measurement under microwave field.	Bulletin of Materials Science	44	120-135	2021
8	S.Sahoo	Investigation of dielectric relaxation in	Indian J.Phys.	94(1)	17-29	2020

		dipolar liquids.				
9	S.Sahoo	Dielectric relaxation study of propylene carbonate from susceptibility and conductivity measurement under broadband electric field.	Indian J.Phys.	94(5)	639-656	2020
10	S.K.Sit, B.Gupta and S.Sahoo	Dielectric relaxation of Benzonitrile and Tetramethyl Urea with N,methylformamide in C_6H_6 under 9.885 GHz electric field.	Ind. J. Pure & Appl. Phys.	56	684-695	2018
11	S.Sahoo and S.K.Sit	Dielectric relaxation of amides and tetrahydrofuran polar mixture in C_6H_6 from conductivity measurement under 9.90 GHz electric field.	Pramana.J.Phys.	88,No11	11-23	2017
12	S.Sahoo and S.K.Sit	Dielectric relaxation Phenomena of alkyl acrylate on complexation with phenol dissolved in carbon tetrachloride under static and highfrequency electric field.	Ind. J. Pure & Appl. Phys.	55	207-217	2017
13	S.Sahoo and S.K.Sit	Double relaxation phenomena of nicotinamide, Benzamide and 1-propanol mixture dissolved in benzene measured at 9.385 GHz electric field.	Can. J. Phys	94	1-12	2016
14	S.Sahoo, T.R.Middya and S.K.Sit	Relaxation phenomena of acrylic esters and phenols in dilute solution of CCl_4 under static and high	Ind. J. Pure & Appl. Phys.	53	725-735	2015

		frequency electric field.				
15	S.Sahoo, T.R.Middya and S.K.Sit	Dielectric relaxation of ethanol and *N*-methyl acetamide polar mixture in C_6H_6 at 9.90 GHz.	Pramana.J.Phys.	83,No.4	579-595	2014
16	S.Sahoo, T.R.Middya and S.K.Sit	Relaxation phenomena of binary aprotic polar liquid mixture dissolved in nonpolar solvents under static and highfrequency electric field.	RASAYAN. J. Chem	6,No.3	262-273	2013
17	S.Sahoo, T.R.Middya and S.K.Sit	Dielectric behaviour of aprotic polar liquid dissolved in non-polar solvent under static and high frequency electric field	Ind. J. Pure & Appl. Phys.	50	150-183	2012
18	S.Sahoo and S.K.Sit	Dielectric behaviour of some amides and formamides dissolved in non polar solvents under static electric field	Pramana.J.Phys.	77,No.2	395-404	2011
19	S.Sahoo and S.K.Sit	Relaxation phenomenon of binary polar liquid mixture in C_6H_6 from conductivity of solution measured at 10 GHz electric field	Indian. J.Phys.	84(11)	1549-1559	2010
20	S.Sahoo and S.K.Sit	Double relaxation phenomena of associated binary polar liquid mixture in non polar solvent under high frequency electric field	Material Science &Engg B.	163	31-39	2009
21	S.Sahoo, K.Dutta, S.Acharyya ,S.K.Sit	Dielectric relaxation of binarypolar liquid mixture measured in benzene at 10 GHz frequency	Pramana.J.Phys.	70	543-552	2008
22	S.Sahoo, K.Dutta, S.Acharyya	Dielectric relaxation of associated ternary liquid mixture	Ind.J. Pure & Appl. Phys.	45	529-544	2007

	,S.K.Sit	from high frequency conductivity measurement of solution				

14. **Books/Reports/Chapters/General articles etc**

S.No	Title	Author's Name	Publisher	Year of Publication
1.	Chapter Title: Carbon Tetrachloride: Dielectric relaxation study and uses. Book Title: Advances in Chemistry Research(Vol.62).	Swagatadeb Sahoo	Nova Science Publisher	2020

15. **Area of Specialisation:**

Microwave Engineering, Material Characterisation, Microwave Absorbing material, Microwave Sensor, Bio-electromagnetics, Microwave material interaction, Broadband Dielectric Spectroscopy

16. **Laboratory developed:**

RF & Microwave Engineering Lab at NIT Jamshedpur

17. **No of International Conference** : 11(9 IEEE)

18. **Details of Projects**

Shortlisted but not recommended in DST-SERB Extra Mural Project Scheme(EMR-EECE); Cost: 61,56,000/- , File no: EMR/2017/002927/EEC

19**. Industrial Experience**

3 years Industrial experience as Project Engineer in Process Instrumentation sector.

20. **Thesis Guided**

Ph.D: 05 (Continuing)

M.Tech:07 (Completed)

B.Tech: 13(Completed)

21. **Editorial Board Member**

Journal of Polymer Science and Engineering

22. **Papers reviewing from international journals**

i) Journal of Physics D, IOP Publication

ii) Measurement Science and Technology, IOP Publication

iii) Journal of Physics Communication, IOP Publication

iv) Emerging Materials Research, Springer Publication

v) American Journal of Science, Engineering and Technology, SciencePG Publication

vi) Journal of Emergent Materials, Springer Publication

vii) Journal of Physics: Condensed Matter, IOP Publication

23. **Courses taught at NIT Jamshedpur, NIT Silchar and Dr.Meghnad Saha Institute of Technology**

RF &Microwave Engineering, Electromagnetic theory, Measurement, Instrumentation and Control, Analytical Instrumentation, Biomedical Instrumentation, Process instrumentation, Process control, Digital Electronics, Electrical & Electronic Measurement system.

24. **Member of Professional Body**

Member of The Institution of Engineers(India), IEEE Professional Communication Society ,IEEE Microwave Theory and Techniques Society ,IEEE Dielectrics and Electrical Insulation Society,IEEE Electromagnetic Compatibility Society.