

## PROFORMA FOR BIO-DATA

1. Name and full correspondence address

Name- Mr. Deepash Shekhar Saini

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3. Institution – Indian Institute of Technology Kharagpur, West Bengal, India-721302

4. Date of Birth- 15 January 1982

5. Gender (M/F/T) - Male

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

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

8. Academic Qualification (Undergraduate Onwards)

Degree	Subject	Year of Passing	Board/University	Percentage of Marks
Ph. D	Materials Science	Thesis submitted	IIT Kharagpur	-
M. Tech	Solid State Materials	2010	IIT Delhi	8.15 (CGPA)
M. Sc	Physics	2007	MJP Rohilkhand University Bareilly	73.75
B. Sc	Physics, Chemistry, Maths	2004	MJP Rohilkhand University Bareilly	68.67

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

Thesis Title- Study of Proton Conduction and Dielectric Properties of Ho Substituted BaZrO<sub>3</sub> Electrolyte Ceramic for Proton Conducting-SOFCs

Guide Name- Prof. Debasis Bhattacharya

Institute/Organization/University- Indian Institute of Technology Kharagpur, West Bengal, India- 721302

Year of Award – Thesis Submitted

10. Work experience (in chronological order).

S.No.	Positions held	Name of the Institute Applicant(s)	From No.	To	Pay Scale
1	CSIR JRF-NET	IIT Delhi	July 2008	July 2010	12,000/- Consolidated
2	Lecturer	SITM Lucknow, U.P.	July 2010	June 2011	40,000/- Consolidated
3	MHRD SRF	IIT Kharagpur	July 2011	July 2016	28,000/- Consolidated

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

S.No.	Name of Award	Awarding Agency	Year
1	GATE	MHRD India	2007 (AIR-319)
2	GATE	MHRD India	2008 (AIR-54)
3	CSIR (JRF) - NET	CSIR-UGC	December' 2007
4	JEST	DAE, India	2008 (AIR-583)
5	Junior Research Fellowship (JRF)	CSIR	July 2008-2010 at IIT Delhi
6	Institute Fellowship	MHRD India	July 2011 – July 2016 at IIT Kharagpur
7	Financial Assistance for ETMN 2015 Jaipur, Rajasthan	MHRD India	December 2015 at IIT Kharagpur
8	Financial Assistance for E-MRS 2016 Lille, France	MHRD India	May 2016 at IIT Kharagpur
9	Teaching Assistantship	IIT Kharagpur	August 2016 – February 2017

12. 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	Tripathy, S., Khilari, S., <b>Saini, D. S.</b> , & Bhattacharya, D.	A green fabrication strategy for	RSC Advances	6(40)	33259-33266	2016

		MgAl <sub>2</sub> O <sub>4</sub> foams with tunable morphology				
2	Kumar, A., Dhama, P., <b>Saini, D.S.</b> , & Banerji, P.	Effect of Zn substitution at a Cu site on the transport behavior and thermoelectric properties in Cu <sub>3</sub> SbSe <sub>4</sub>	RSC Advances	6	5528 – 5534	2016
3	Tripathy, S., <b>Saini, D. S.</b> , & Bhattacharya, D.	Synthesis and fabrication of MgAl <sub>2</sub> O <sub>4</sub> ceramic foam via a simple, low-cost and eco-friendly method	Journal of Asian Ceramic Societies	4(2)	149-154	2016

13. Detail of patents. -NA

S.No.	PatentTitle	Name of Applicant(s)	Patent No.	Award Date	Agency	Country	Status

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

S.No.	Title	Author's Name	Publisher	Year of Publication
1	Electrical properties of BaZrO <sub>3</sub> ceramic synthesized by flash pyrolysis process	<b>Saini, D. S.</b> , & Bhattacharya, D.	AIP Conference Processding	2016

15. Any other Information (maximum500 words)-

**Paper presented in conferences**

1. **Saini, D. S., & Bhattacharya, D.** (2016) Study of proton conduction and dielectric relaxations phenomena in  $\text{BaZr}_{0.9}\text{Ho}_{0.1}\text{O}_3$  electrolyte ceramic synthesized by using flash pyrolysis route for IT – SOFCs, ICFM 2016, IIT Kharagpur.
2. **Saini, D. S., & Bhattacharya, D.,** (2016). Protonic conductivity of dense  $\text{BaZrO}_3$  ceramic synthesized by flash pyrolysis process for PCFC applications. E-MRS 2016 Spring Meeting, Lille Grand Palais, France.
3. **Saini, D. S., & Bhattacharya, D.,** (2015), Electrical properties of  $\text{BaZrO}_3$  ceramic synthesized by flash pyrolysis process. 2nd International Conference on Emerging Technologies: Micro to Nano 2015 (ETMN-2015) Jaipur.
4. **Saini, D. S., & Bhattacharya, D.,** (2014), Electrical properties of  $\text{BaZrO}_3$  ceramics synthesized by flash pyrolysis combustion process, ICFM 2014, IIT Kharagpur.

#### **Training & Workshop Attended:**

- International Workshop on Lithium Ion Battery Technology and Mathematical Modeling at IIT Kharagpur on 16-18 May, 2016

#### **Professional Organizations Membership:**

- APS graduate student member (ID No. 61204124)

#### **Skills:**

1. **Scientific Softwares:** Full Prof Suit, Maud and Diamond for Rietveld Analysis, ZSimpwin for Impedance Analysis, Matlab.
2. **Materials Synthesis:** Solid State Route, Sol-Gel process, Hydrothermal, Combustion Route, Flash Pyrolysis Route.
3. **Thin Film Fabrication:** Sol-Gel Spin Coating, Spray Pyrolysis, Thermal Evaporation, Dip Coating.
4. **Characterization Techniques:** HR- XRD, FESEM, EDS, HRTEM, FTIR, Raman, DTA-TGA, AFM, UV, PL.
5. **Paper & Report Writing Tools:** Microsoft Office, Visio, LaTeX, Origin.