

### **BIO DATA**

**1. Name and full correspondence address:** Dr. Parijat Pallab Jana  
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**3. Personal details:**

*Father's name:* Pabitra Kumar Jana      *Nationality:* Indian  
*Mother's Name:* Subhra Jana      *Language known:* English, Hindi, Bengali, German (Beginner)  
*Date of birth:* 2<sup>nd</sup> April, 1991      *Gender:* Male; *Marital status:* Single

**4. Academic qualification:**

Degree	Year	Subject	Institution/ University	% of Marks
Secondary	2006	Bengali, English, Physical Science, Life Science, Mathematics, Geography, History	Tanua Swami Vivekananda Vidyamandir	88%
Higher Secondary.	2008	Bengali, English, Physics, Chemistry, Mathematics, Biology, Environmental Science	Baita Mahendranath High School	82%
B.E.	2012	Metallurgy & Materials Engineering	Bengal Engineering and Science University Shibpur (Now IEST Shibpur)	70.6%
M. Tech	2014	Metallurgical & Materials Engineering	Indian Institute of Technology Kharagpur	8.86/10 (CGPA)

**5. Ph. D. Thesis title:**

*“Effect of cold rolling on the glass transition temperature and internal pressure of a few Zr-base metallic glasses”*

**Ph. D. Supervisor:**

Prof. Jayanta Das, Associate Professor, Department of Metallurgical and Materials Engineering, Indian Institute of Technology Kharagpur

**Name of the Institute/Organization/University:** Department of Metallurgical and Materials Engineering, Indian Institute of Technology Kharagpur

**Date of Ph. D. Enrollment:** 29 December 2014

**Date of Ph.D. Defence/Viva-voce:** 07 June 2020

**6. Work experience:**

Sl. No.	Position held	Name of the Institute	From	To	Pay Scale
1	Adhoc faculty (on contract)	National Institute of Technology Warangal	14 July 2014	12 December 2014	Rs. 30000 (consolidated)

**7. Publications (List of paper published in SCI journals):**

Sl. No.	Authors	Title	Name of Journal	Volume	Page	Year
1	Barnasree Chanda, Gaurav Potnis, <b>Parijat P. Jana</b> , Jayanta Das	A review on nano-/ultrafine advanced eutectic alloys	Journal of Alloys and Compounds	827	154226 (1-49)	2020
2	Debottam Goswami, K.S. Anand, <b>Parijat P. Jana</b> , Sanjay K. Ghorai, Santanu Chattopadhyay, Jayanta Das	Synthesis of a robust multifunctional composite with concurrent magnetocaloric effect and enhanced energy absorption capabilities through a tailored processing route	Materials and Design	187	108399 (1-10)	2020
3	<b>Parijat P. Jana</b> , Abhilash Gunti, Jayanta Das	Improvement of intrinsic plasticity and strength of $Zr_{55}Cu_{30}Ni_5Al_{10}$ metallic glass by tuning the glass transition temperature	Materials Science and Engineering A	762	138102 (1-7)	2019
4	<b>Parijat P. Jana</b> , Jayanta Das	Measurement of accurate glass transition temperature of $Cu_{47.5}Zr_{47.5}Al_5$ and $Zr_{41.2}Ti_{13.8}Cu_{12.5}Ni_{10}Be_{22.5}$ using step-scan modulated differential scanning calorimeter	Journal of Alloys and Compounds	800	314-319	2019
5	K. S. Anand, Debottam Goswami, <b>Parijat P. Jana</b> , Jayanta Das	Correlating the lattice parameter and Curie temperature of $\gamma$ -Ni in Fe-Ni-base alloys	AIP Advances	9	055126 (1-3)	2019
6	Anushree Dutta, <b>Parijat P. Jana</b> , Jayanta Das	Effect of cooling rate and composition on the microstructure and mechanical properties of	Journal of Materials Research	34	1704-1713	2019

		$(\text{Ni}_{0.92}\text{Zr}_{0.08})_{100-x}\text{Al}_x$ ( $0 \leq x \leq 4$ at.%) ultrafine eutectic composites				
7	K. S. Anand, <b>Parijat P. Jana</b> , D. Prabhu, Jayanta Das	The effect of milling time on the evolution of nanostructure, thermal stability, and magnetocaloric properties of $(\text{Ni}_{0.50}\text{Fe}_{0.50})_{70.5}\text{B}_{17.7}\text{Si}_{7.8}\text{Ti}_4$	Journal of Alloys and Compounds	772	157-163	2019
8	Tapabrata Maity, Anushree Datta, <b>Parijat P. Jana</b> , Prashanth Konda Gokuldoss, Jürgen Eckert, Jayanta Das	Influence of Nb on the microstructure and fracture toughness of $(\text{Zr}_{0.76}\text{Fe}_{0.24})_{100-x}\text{Nb}_x$ nano-eutectic composites	Materials	11	113 (1-9)	2018
9	<b>Parijat P. Jana</b> , Jayanta Das	Precise estimation of glass transition and crystallization temperatures of $\text{Zr}_{55}\text{Cu}_{30}\text{Ni}_5\text{Al}_{10}$ metallic glass using step-scan differential scanning calorimeter	Thermochimica Acta	660	18-22	2018

### 8. List of Conferences (National):

Sl. No.	Authors	Title	Name of the conference	Presentation	Year
1	<b>Parijat P. Jana</b> , Jayanta Das	Effect of cold rolling on the structural change in $\text{Zr}_{55}\text{Cu}_{30}\text{Ni}_5\text{Al}_{10}$ bulk metallic glass	The 54 <sup>th</sup> National Metallurgist Day (NMD) Conference and 70 <sup>th</sup> Annual Technical Meeting (ATM), IIT Kanpur, India.	Poster	2016
2	<b>Parijat P. Jana</b> , Jayanta Das	Methodical assessment of glass transition temperature of metallic glasses using modulated temperature differential scanning calorimetry	The 56 <sup>th</sup> National Metallurgist Day (NMD) Conference and 72 <sup>th</sup> Annual Technical Meeting (ATM), Kolkata, India	e-poster	2018

**9. List of Conferences (International):**

Sl. No.	Authors	Title	Name of the conference	Presentation	Year
1	<b>Parijat P. Jana</b> , Jayanta Das	Studies on the inhomogeneous deformation behavior of $Zr_{55}Cu_{30}Ni_5Al_{10}$ and $Cu_{47.5}Zr_{47.5}Al_5$ bulk metallic glasses at room temperature	The 26 <sup>th</sup> International Symposium on Metastable, Amorphous and Nanostructured Materials (ISMAM), Chennai, India.	Poster	2019
2	<b>Parijat P. Jana</b> , Jayanta Das	Measurement of glass transition temperature of metallic glasses using step-scan modulated temperature differential scanning calorimetry	The 25 <sup>th</sup> International Symposium on Metastable, Amorphous and Nanostructured Materials (ISMAM), Rome, Italy	Oral	2018

**10. Professional Recognition/ Award/ Prize/ Certificate:**

Sl. No.	Name of the award/prize/certificate	Awarding agency	Year
1	‘Teaching Assistant’ for the NPTEL online course ‘Advanced Materials and Processes’	MHRD, Government of India	2019
2	‘Teaching Assistant’ for the NPTEL online course ‘Advanced Materials and Processes’	MHRD, Government of India	2018
3	Third prize for Poster presentation	Indian Institute of Technology Kharagpur	2017
4	Third prize for Poster presentation	Indian Institute of Technology Kharagpur	2016

**11. Specialization:**

Bulk Metallic Glasses; Non-equilibrium Processing; High-entropy Alloys; Magnetocaloric Alloys