



TO MAGNIFICO RETTORE OF UNIVERSITA' DEGLI STUDI DI MILANO

ID CODE 5953

I the undersigned asks to participate in the public selection, for qualifications and examinations, for the awarding of a type B fellowship at **Dipartimento di** Fisica Aldo Pontremoli dell'Università degli Studi di Milano

Scientist- _____ in _____ charge: _____ Prof.
Achilli Simona _____

[Name and surname]

CURRICULUM VITAE

PERSONAL INFORMATION

Surname	PILLALA
Name	KARUNA KUMARI

PRESENT OCCUPATION

Appointment	Structure
1/07/2021	POST-DOCTORAL RESEARCHER

EDUCATION AND TRAINING

Degree	Course of studies	University	year of achievement of the degree
Degree	M.Sc. PHYSICS	UTKAL UNIVERSITY, BHUBANESWAR, INDIA	2014
Specialization			
PhD	PHYSICS	INDIAN INSTITUTE OF TECHNOLOGY HYDERABAD, INDIA	2020
Master	PHYSICS	UTKAL UNIVERSITY, BHUBANESWAR, INDIA	2014
Degree of medical specialization			
Degree of European specialization			
Other			



REGISTRATION IN PROFESSIONAL ASSOCIATIONS

Date of registration	Association	City
5/11/2021-PRESENT	AMERICAN PHYSICAL SOCIETY	COLLEGE PARK, USA
11/10/2022-PRESENT	KOREAN PHYSICAL SOCIETY	SEOUL, SOUTH KOREA

FOREIGN LANGUAGES

Languages	level of knowledge
ENGLISH	READ, WRITE, SPEAK
HINDI	READ, WRITE, SPEAK
ODIA	READ, WRITE, SPEAK
TELUGU	SPEAK
BENGALI	SPEAK

AWARDS, ACKNOWLEDGEMENTS, SCHOLARSHIPS

Year	Description of award
2019	BEST POSTER, ISSC-22 INTERDISCIPLINARY SURFACE SCIENCE CONFERENCE, UK
2015-2020	DST INSPIRE FELLOWSHIP, GOVERNMENT OF INDIA
2009-2014	DST INSPIRE SCHOLARSHIP, GOVERNMENT OF INDIA

TRAINING OR RESEARCH ACTIVITY

description of activity

PROJECT ACTIVITY

Year	Project

PATENTS

Patent



CONGRESSES AND SEMINARS

Date	Title	Place
October 24-27 (2023)	Electronic structure and spin-defect states in quasi-one-dimensional MoBr ₃ ." KPS Fall Meeting 2023	Changwon, South Korea
March 5-10(2023)	First-principles investigation of the electronic and magnetic properties of quasi-one-dimensional MoBr ₃ ." APS March Meeting	Las Vegas, USA.
October 18-21 (2022)	Theoretical investigation of ferroelectric and piezoelectric properties in quasi-one-dimensional transition metal oxyhalides." KPS Fall Meeting 2022	Busan, South Korea

PUBLICATIONS

Books
[title, place, publishing house, year ...]
[title, place, publishing house, year ...]
[title, place, publishing house, year ...]

Articles in reviews
First-principles investigation of ferroelectric and piezoelectric properties in one-dimensional transition metal oxytetrahalides, Physical Review B 106.12: 125118 (2022)
Interface magnetoelectric effect and its sensitivity on interface structures in Fe/AgNbO ₃ and SrRuO ₃ /AgNbO ₃ heterostructures: A first-principles investigation." Journal of Magnetism and Magnetic Materials 167372 (2021)
Surface electronic structure, thermodynamic stability of Na _{1/2} Bi _{1/2} TiO ₃ (001) surfaces and their relevance to A-site cation ordering in bulk phases: A first-principles study." Solid State Sciences 106161 (2020)
Theoretical investigation of surface electronic structure and thermodynamic energies of (1x1) polar and nonpolar K _{1/2} Bi _{1/2} TiO ₃ (001) surfaces." Journal of Physics and Chemistry of Solids 135: 109116 (2019)
Optimum discharge energy density at room temperature in relaxor K _{1/2} Bi _{1/2} TiO ₃ for green energy harvesting." Journal of Physics D: Applied Physics 51, no. 11: 115501 (2018).
Randomly arranged cation-ordered nanoregions in lead-free relaxor ferroelectric K _{1/2} Bi _{1/2} TiO ₃ : Prediction from first-principles study." Journal of Applied Physics 123.24: 244106 (2018).

Congress proceedings
[title, structure, place, year]



[title, structure, place, year]

[title, structure, place, year]

OTHER INFORMATION

Declarations given in the present curriculum must be considered released according to art. 46 and 47 of DPR n. 445/2000.

The present curriculum does not contain confidential and legal information according to art. 4, paragraph 1, points d) and e) of D.Lgs. 30.06.2003 n. 196.

Please note that CV WILL BE PUBLISHED on the University website and It is recommended that personal and sensitive data should not be included. This template is realized to satisfy the need of publication without personal and sensitive data.

Please DO NOT SIGN this form.

Place and date: ____SEOUL_____, ____10/11/2023_____