



TO MAGNIFICO RETTORE OF UNIVERSITA' DEGLI STUDI DI MILANO

ID CODE : 5853

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**

Scientist- in - charge: **Dr. Simona Achilli**

DEBDIPTO ACHARYA

CURRICULUM VITAE

PERSONAL INFORMATION

Surname	ACHARYA
Name	DEBDIPTO

PRESENT OCCUPATION

Appointment	Structure
University of Milano Bicocca	Postdoctoral Researcher

EDUCATION AND TRAINING

Degree	Course of studies	University	year of achievement of the degree
Degree			
Specialization			
PhD	Computational Materials Science	Jawaharlal Nehru Center For Advanced Scientific Research	2020
Master	Physics	Visva Bharati	2012
Degree of medical specialization			
Degree of European specialization			
Other			



REGISTRATION IN PROFESSIONAL ASSOCIATIONS

Date registration	of	Association	City

FOREIGN LANGUAGES

Languages	level of knowledge
English	Native

AWARDS, ACKNOWLEDGEMENTS, SCHOLARSHIPS

Year	Description of award

TRAINING OR RESEARCH ACTIVITY

description of activity

PROJECT ACTIVITY

Year	Project

PATENTS

Patent

CONGRESSES AND SEMINARS

Date	Title	Place



PUBLICATIONS

Books

Articles in reviews
“Comprehensive Electrical Characterization and Theoretical Analysis of Mn and As doped B-FeSi ₂ through DFT: A Promise to Rectification and Photovoltaic Applications”, Sabyasachi Sen, Debdipto Acharya, Prasanta Kumar Guha, Pallab Banerji and Panchanan Pramanik, Journal of Applied Physics, 2023, 134(2), 025702
“A simple and cost-effective chemical reduction approach to doped B-FeSi ₂ with Boron and its comprehensive characterization through DFT analysis ”, Sabyasachi Sen, Debdipto Acharya, Prasanta Kumar Guha, Pallab Banerji and Panchanan Pramanik, RSC Advances, 2023, 13, 12825-12843
“Pb-free Halide Perovskites for Solar cells, Light-emitting diodes and Photocatalysts”, Pingping Jiang, Debdipto Acharya, George Volonakis, Marios Zacharias, Mikaël Kepenekian, Laurent Pedesseau, Claudine Katan and Jacky Even, APL Materials, 2022, 10(6), 60902-60919
“Leveraging Polar Discontinuities to Tune the Binding of Methanol on BCN and Graphene-BN Lateral Heterostructures”, Debdipto Acharya, Kanchan Ulman and Shobhana Narasimhan, The Journal of Physical Chemistry C, 2021, 125(27), 15012-15024
“Enhanced hydrogen evolution reactivity on Mo ₂ C-Mo ₂ N composites”, Debdipto Acharya, Kasinath Ojha, Nisha Mammen, Preeti Dagar, Sourav Mondal, Ashok K Ganguli and Shobhana Narasimhan, Bulletin of Materials Science, 2020, 43(1), 1-13
“Lattice Expansion in Hybrid Perovskites: Effect on Optoelectronic Properties and Charge Carrier Dynamics”, Dibyajyoti Ghosh, Debdipto Acharya, Liujiang Zhou, Wanyi Nie, Oleg V. Prezhdo, Sergei Tretiak, and Amanda J. Neukirch, The Journal of Physical Chemistry Letters, 2020, 10(17), 5000-5007
“Charge carrier dynamics in two-dimensional hybrid perovskites: Dion-Jacobson vs. Ruddlesden-Popper phases”, Dibyajyoti Ghosh, Debdipto Acharya, Laurent Pedesseau, Claudine Katan, Jacky Even, Sergei Tretiak and Amanda J. Neukirch, Journal of Materials Chemistry A, 2020, 8(42), 22009-22022
“Harvesting Delayed Fluorescence in Perovskite Nanocrystals Using Spin-Forbidden Mn d States”, Pradeep K. R., Debdipto Acharya, Priyanka Jain, Kushagra Gahlot, Anur Yadav, Andrea Camellini, Margherita Zavelani-Rossi, Giulio Cerullo, Chandrabhas Narayana, Shobhana Narasimhan and Ranjani Viswanatha, ACS Energy Letters, 2019, 5(2), 353-359

Congress proceedings

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: Milan Italy, 20th August 2023