

Allegato alla domanda di partecipazione
Curriculum formativo, didattico, scientifico e professionale del candidato

Dichiarazione sostitutiva di certificazioni

(Art. 46, D.P.R. 28 dicembre 2000 n. 445)

Dichiarazione sostitutiva dell'atto di notorietà

(da sottoscrivere davanti all'impiegato addetto o da presentare o spedire con la fotocopia di un documento di identità)

(Art. 47, D.P.R. 28 dicembre 2000 n. 445)

Estremi del bando di selezione	Assegno di ricerca – codice 39A-20
Informazioni aggiornate al	08/09/2022
Nome e Cognome	Payal Wadhwa
Data di nascita	05/11/1993

Si raccomanda di indicare con precisione tutti gli elementi valutabili ai sensi del bando di selezione (aggiungere o togliere righe secondo necessità).

Esperienza professionale

Periodo	Ente	Principali attività e responsabilità
2 years	University of Cagliari	Research Scientist

Istruzione, formazione (es. titoli di studio, certificazioni professionali/linguistiche/informatiche)

Data	Titolo / Principali tematiche	Ente
04/09/2020	Ph.D. Physics- First-principles investigation of Topological Phase in Rare-earth Compounds	Indian Institute of Technology Ropar, India
02/07/2015	Master of Science (M.Sc.) Physics	Kurukshetra University, Kurukshetra, India

Pubblicazioni / Convegni

1. S. Kumar and P. Wadhwa, Chapter 9 “Theoretical prediction of catalytic activity of 2D nanomaterials for energy applications” 2D Materials for Energy Storage and Conversion, <i>IOP publishing</i> , 2021.
2. P. Wadhwa, S. Kumar, A. Shukla, R. Kumar* Studies of non-trivial band topology and electron-hole compensation in YSb <i>Solid State Commun.</i> 321 , 114022 (2020)
3. P. Wadhwa, T. J. D. Kumar, A. Shukla, R. Kumar* Signatures of non-trivial band topology in LaAs/LaBi heterostructure <i>J. Phys.: Condens. Matter</i> 32 , 395703 (2020)
4. P. Wadhwa, S. Kumar, A. Shukla, R. Kumar* First principles investigation of topological phase in XMR material TmSb under hydrostatic pressure, <i>J. Phys.: Condens. Matter</i> 31 , 335401 (2019)
5. P. Wadhwa, S. Kumar, T. J. D. Kumar, A. Shukla, R. Kumar* Effect of edge defects on band structure of zigzag graphene nanoribbons <i>J. App. Phys.</i> 123 , 161416 (2018)

6. P. Wadhwa, S. Kumar, T. J. D. Kumar, A. Shukla, R. Kumar* Band gap tunability in a One-dimensional system Condens. Matter 3, 34 (2018)
7. P. Wadhwa, M. Kaushik, V. Mehta, M. K. Kashyap* Energy Harvesting using Piezoelectric assembly: Performance comparison on plain and inclined roads, J. Chem. Biol. Phys. Sci. Sec C. 5, 4279 (2015)
Conferences and Workshops:-
1. Poster Presentation on Doping induced ferromagnetism in EuTiO_3 and STO/ETO/LAO heterostructures by ab-initio calculations in “Wannier 2022 Summer School” on 16 th – 20 th May 2022, held at ICTP, Trieste, Italy.
2. Attended “Short term course on Introduction to Deep Learning” 17 th January - 15 th February 2020, organized by Indo-Taiwan Joint Research Centre on AI and ML, IIT Ropar, India.
3. Attended Discussion meeting on “Novel Phases of Quantum Matter” 23 rd December 2019 - 2 nd January 2020, International Centre for Theoretical Sciences (ICTS), Bangalore, India
4. Poster Presentation in “International Conference on Advanced Materials Modelling (ICAMM 2019) and VASP & USPEX training schools” 26 th June - 6 th July 2019, Rennes, France
5. Poster Presentation in “5 th International Conference on Nanoscience and Nanotechnology (ICONN 2019)” 28 th - 30 th January 2019, SRM Institute of Science and Technology, India
6. Oral Presentation in National conference on “Recent advances in Condensed Matter Physics (RACMP-2018)” 12 th - 13 th October 2018, Kurukshetra University, Kurukshetra, India
7. Poster Presentation in “QMAT- National Conference on Condensed Matter” 25 th - 27 th July 2018, IISER Mohali, India.
8. “NSM workshop on High-Performance Computing” 4 th May 2018, Kurukshetra University, Kurukshetra, India
9. GIAN Workshop on “Fundamentals of Solid State Physics: From Theoretical and Computational Concepts to Recent Applications in Information Technology” 5 th – 16 th February 2018, Indian Institute of Technology Indore, India
10. GIAN Workshop on “An introduction to Topological Insulators and Superconductors” 26 th August - 1 st September 2017, Indian Institute of Technology Delhi, India
11. GIAN Workshop on “Nanotechnology: Insights into properties of materials from Computational Modelling Methods” October 2016, Guru Jambheshwar University of Science and Technology (GJU), Hisar, India

Altre attività scientifiche

Ulteriori informazioni pertinenti

Luogo, Cagliari
data 08/09/2022

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