

## BIO-DATA (Long-Format)

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1. Name : Dr. Raminder Kaur
2. Designation : Assistant Professor
3. Department : Basic and Applied Sciences
4. Date of Birth : 09-03-1979
5. Address for Correspondence : H.No. 46, S.S.S.T. Nagar, Patiala,  
Punjab



Phones : 0175-2371747

Mobile : 9779038282

Fax :

E-mail : [raminder\\_k\\_saini@yahoo.com](mailto:raminder_k_saini@yahoo.com)

Photograph

- 6 Areas of Specialisation : Materials science and nanotechnology

### 7. Academic Qualifications :

| Sr. no. | Degree Held | Year | Board/Univ./ Inst.                   | % of marks | Div./ Rank | Subjects Taken                        |
|---------|-------------|------|--------------------------------------|------------|------------|---------------------------------------|
| 1       | B.Sc.       | 1999 | Pondicherry University, Pondicherry. | 70.24      | NA         | Physics, Chemistry, Maths             |
| 2       | M.Sc.       | 2001 | Guru Nanak Dev University, Amritsar. | 67.05      | NA         | Physics                               |
| 3       | Ph.D.       | 2008 | Thapar University, Patiala           | N.A.       | NA         | Materials Sciences and Nanotechnology |
| 4       |             |      |                                      |            |            |                                       |
| 5       |             |      |                                      |            |            |                                       |
| 6       |             |      |                                      |            |            |                                       |

### 8. Membership of Professional Bodies/Organisations

- i) ... Life Member, MRSI.....
- ii) ... Life Member, IPA .....

### 9. Medals/Awards/Honours/Received

- i) .....
- ii) .....

**10. Scholarships:**

- i) .....
- ii) .....

**11. Details of Experience:**

| S. No. | Name of the Inst./Employer | Position Held       | Duration           | Major Job Responsibilities and Nature of Experience |
|--------|----------------------------|---------------------|--------------------|---|
| 1.     | Punjabi University         | Assistant Professor | Jan.2009 till date | Lectures  |
| 2.     |                            |                     |                    |   |
| 3.     |                            |                     |                    |   |
| 4.     |                            |                     |                    |   |
| 5.     |                            |                     |                    |   |

**12. Published Work (Please specify numbers only) :**

- a. Research Papers i) National =  
ii) International = 13
- b. Conference/Seminar Presentation 15
- c. Books
  - i) Original :
  - ii) Edited :(Please attach the list)

**11. R & D Projects**

- i) .....NA.....
- ii) .....

**12. Invited Talks/Articles**

- i) .....NA.....
- ii) .....

**13. Ph.D. Students guided/under guidance (Details) :03**

**14. M.Phil./M.Tech Students guided :01**

**15. List of Papers/Courses taught at P.G. and U.G. Level**

| S. No. | Paper                        | Class                     |
|--------|------------------------------|---------------------------|
| 1.     | Physics 1                    | B.Tech. 1year             |
| 2.     | Physics11                    | B.Tech. 1year             |
| 3.     | Carbon nanotubes             | M.Sc 2 <sup>nd</sup> year |
| 4.     | Atomic and molecular spectra | M.Sc 1 <sup>nd</sup> year |

**16. Technical Proficiency**

## 17. List of Papers Published

### (a) International Journals

#### Published

1. Avtar Singh , Davinder Kumar, AnupThakur and **Raminder Kaur**, “*Morphology controlled electrochemical capacitive behaviour of manganese oxide films*”, Functional Materials Letters, Vol. 12, No. 1(1850099), 2019.
2. Avtar Singh , Davinder Kumar, AnupThakur and **Raminder Kaur**, “Effect of mass density on surface morphology of electrodeposited manganese oxide films”, AIP conference proceedings, 1953, 030088, doi:10.1063/1.5032423, 2018
3. Davinder Kumar, Avtar Singh, Manpreet Kaur, Vikrant Singh Rana and **Raminder Kaur**, “Structural and Morphological Study of ZrO<sub>2</sub> thin films”, AIP conference proceedings, 1953, 030246, doi:10.1063/1.5032581, 2018.
4. Davinder Kumar, Avtar Singh, Manpreet Kaur, Vikrant Singh Rana and **Raminder Kaur**, “Investigation of phase transition properties of ZrO<sub>2</sub> thin films”, AIP conference proceedings, 1953, 030074, doi:10.1063/1.5032409, 2018.
5. Jasveer Kaur, Avtar Singh, Davinder Kumar, Anup Thakur, and Raminder Kaur, “Fabrication of multilayer nanowires”, AIP Conference Proceedings, 1728, 020677; doi: 10.1063/1.4946728, 2016.
6. Raminder Kaur, “Effect of ultraviolet radiation on structural properties of nanowires”, International Journal on Organic Electronics, 4: 1-8, 2015.
7. Raminder Kaur, “Fabrication and characterization of nickel nanowires”, International Journal on Organic Electronics, 3: 1-8, 2014.
8. Raminder Kaur, N.K. Verma and S.K. Chakarvarti, “Synthesis and characterisation of chromium nanostructures”, Atti della Fondazione Giorgio Ronchi, 745-750, 2009.
9. Raminder Kaur, N.K.Verma and S.K.Chakarvarti, “Morphological, structural and optical characterization of nickel nanostructures fabricated through electrochemical template synthesis”, Journal of Materials Science, 42: 8083-8087, 2007.
10. Raminder Kaur, N.K. Verma and S.K. Chakarvarti, “Morphological, structural and optical characterization of nickel nanostructures”, Journal of Materials Science, 42: 5629-5631, 2007.

11. Raminder Kaur, N.K. Verma and S.K. Chakarvarti, “Structural analysis of electrodeposited copper microstructures fabricated through template synthesis”, Journal of Materials Science, 42: 3588-3591, 2007.
12. Raminder Kaur, N.K. Verma, S.K. Chakarvarti and S. Kumar, “Fabrication of copper microcylinders in polycarbonate membranes and their characterization”, Journal of Materials Science, 41: 3723-3728, 2006.
13. G.S. Sekhon, N.K. Verma, S.K. Chakarvarti, Sunil Kumar and Raminder Kaur, “Fabrication of microstructures by using improved version of Template Synthesis Cell”, Atti della Fondazione Giorgio Ronchi, 59 (4): 529-534, 2004.

**Date:** \_\_/\_\_/\_\_\_\_

**(Signature of the Teacher)**

#### **18. Books Published/ Edited/ Book Chapters Contributed**

1. B.S. Saini and Raminder Kaur (Under review), “X-Ray Diffraction (XRD)”, Chapter in Handbook of Modern Coatings Technologies, Vol.2: Characterization of modern coatings (Ed.-Mahmood Aliofkhazraei), Elsevier, (2017): Project URL: <http://booksite.elsevier.com/9780444632401/>.
2. Raminder Kaur, Jobanpreet Singh and Balraj Singh Saini , “ Frugal Techniques for Depositing Nanofilms”, Chapter in Advances in Nanotechnology, Nova Science Publishers, Inc., Hauppauge, NY 11788, USA, Vol.20: 119-148, 2017.