Curriculum Vitae

1. Name of the Candidate: (in block letters): Dr. AVTAR SINGH

2. Father's Name (in block letters): S. NAIB SINGH

3. Date of Birth: 25 DEC. 1991

4.

a. Permanent Address:

VILL. KHACHRAN, P.O. RAMEANA, TEH. JAITU, DISTT. FARIDKOT (PB.) 151202

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5. Telephone/Mobile Number: +91 7589121871 Email: avtarphy@gmail.com

6. Emergency Contact Number +91 9464108096 (Father/S. Naib singh)
(Please specify the name and relation)

7. Aadhaar Card Number 207413418454

8. PAN No IAUPS9249P

9. Educational Qualifications

Sr No	Examination	Bord/University	Subject	Year of Passing	Marks Obtained/CGPA	Percentage
1	Matric	P.S.E.B Mohali	Punjabi, English, Hindi, Math, Sci, Social Sci.	2007	464/650	71.38
2	Higher Secondary	P.S.E.B Mohali	Non. Medical	2009	311/450	69.11
3	B.Sc. Non.Med	Punjabi University Patiala	Physics, Chem., Math	2012	1609/3150	51.08
4	Post Graduate	S.G.G.S.Wuniversity, Fatehgarh Sahib	Physics	2014	5.97	59.70

Ph.D. Information

Type	Faculty	University	Guide/Supervisor Name	Topic/Title	Date of Registration	Date of Award of Degree	Compliance
Ph.D.	Faculty of Physical	Punjabi University Patiala	Dr. Raminder Kaur Assistant Professor, Department of	Synthesis and Characterization of Transition	09/02/2016	29/04/2021	Yes

	Sciences		Physics, Punjabi University	Metal Oxide Films for Electrochemical Applications			

10. Teaching Experience (details in chronological order starting with first job)

Sr. No	Name & Address of Employer/ Institution	Date of Joining Leaving	Designation	Class taught	Salary
1	Mata Gujri College, Fatehgarh Sahib	01 Feb 2022 - 13may 2022	Assist. Prof ADHOC	**M.Sc. Physics** I. Radiation Physics, II. Electronics, **B.Sc. Hon. Physics** I. Quantum mechanics	21600/- per Month
2	Public College, Samana	12 Sep 2022 -31May2023	Assist. Prof ADHOC	**B.Sc. NM** I. Solid State II. Statistical and Thermodynamics III. Nuclear And Particle IV. Optics.	21600/- per Month
3	Department of Basic and Applied Sciences, Punjabi University, Patiala.	Jul, 2015- May 2018	RS	**B. Tech (I, II sem.)** Applied Physics Lab	NA

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11. Total Experience 4 year : (Industry- Years nil Months)

12. Published Papers in Journals/Full papers in Conference Proceedings

S. No	Paper title with page no.	Journal/ Conference proceedings	ISSN/ ISBN No.	Impact Factor	First/Principal/ corresponding author
1.	Fractal Analysis of Pure and Fe-Doped Manganese Oxide Supercapacitor Electrodes, Protection of Metals and Physical Chemistry of Surfaces 58 (5), 991-998 (2022)	Protection of Metals and Physical Chemistry of Surfaces	2070-2051	1.1	**Avtar Singh**, D Kumar, B Singh, V Shinde, R Kaur
2.	Galvanostatic deposition of manganese oxide films for super capacitive application and their fractal analysis Ionic 27, pages2193–2202 (2021)	Ionic	145625	2.8	**A Singh**, D Kumar, A Thakur, N Gupta, V Shinde, B. S. Saini, R Kaur
3.	Enhanced performance of Fe-doped manganese oxide films as supercapacitor electrodes Bulletin of Materials Science 43 (1), 1-8 (2020)	Bulletin of Materials Science	0250-4707	1.8	**A Singh**, D Kumar, A Thakur, BS Saini, R Kaur
4.	Morphology-controlled electrochemical capacitive behavior of manganese oxide films Functional Materials Letters 12 (01), 1850099 (2019)	Functional Materials Letters	17936047	1.3	**A Singh**, D Kumar, A Thakur, R Kaur

5.	Sol-Ageing Effect on the Structural and Optical Properties of Undoped and Doped ZrO2 Thin Films, Protection of Metals and Physical Chemistry of Surfaces 58 (5), 999-1010, (2022)	Protection of Metals and Physical Chemistry of Surfaces	2070-2051	1.1	D Kumar, **A Singh**, V Shinde, R Kaur
6.	Effect of Annealing Temperature on the Structural and Optical Properties of ZrO_2 Thin Films, Korean Journal of Materials Research 32 (5), 249-257 (2022)	Korean Journal of Materials Research 32 (5), 249-257	2287-7258	0.3	D Kumar, A Singh, N Kaur, A Katoch, R Kaur
7.	Effect of Ni Doping on the Structural and Optical Properties of ZrO_2 Thin Films, Journal of Electronic Materials 50 (1), 65-74 (2021)	Journal of Electronic Materials	0361-5235	2.1	D Kumar, **A Singh**, BS Saini, BC Choudhary, V Shinde, R Kaur
8.	Tailoring structural and optical properties of ZrO 2 with nickel doping, SN Applied Sciences 2 (4), 1-8 (2020)	SN Applied Sciences	2523-3963	2.6	D Kumar, **A Singh**, N Kaur, A Thakur, R Kaur
9.	Morphological comparison of two etching techniques for multi crystalline silicon wafers AIP Conference Proceedings 2006 (1), 030030 (2018)	AIP Conference Proceedings	0094243X	0.6	M Kaur, **A Singh,** D Kumar, J Singh, R Kaur
0.	Effect of mass density on surface morphology of electrodeposited manganese oxide films AIP Conference Proceedings 1953 (1), 030088 (2018)	AIP Conference Proceedings	0094243X	0.6	**A Singh,** D Kumar, A Thakur, R Kaur
1.	Structural and morphological study of ZrO_2 thin films 1953 (1), 030246 (2018)	AIP Conference Proceedings	0094243X	0.6	D Kumar, **A Singh**, M Kaur, V.S Rana, R Kaur
2. 0	Investigation of phase transition properties of ZrO_2 thin films AIP Conference Proceedings 1953 (1), 030074 (2018)	AIP Conference Proceedings	0094243X	0.6	D Kumar, **A Singh**, M Kaur, V.S Rana, R Kaur
3. 1	Fabrication of multilayer nanowires AIP Conference Proceedings 1728 (1), 020677 (2016)	AIP Conference Proceedings	0094243X	0.6	J Kaur, **A Singh,** D Kumar,A Thakur, R Kaur

13. Important Conferences/Seminars/Workshops attended

S.No.	Conferences/Seminars/Workshops attended
1	*One Day National Seminar On Condensed Matter Physics And Materials,* May 08, 2023 at Department Of Physics, Punjabi University Patiala,
2	*Study of Structural, Morphological and Electrochemical Properties of Multilayer Nanowires* 5th ICRAMC-2021 SRM Institute of science and Technology, Kattankulathur, campus, Chennai, Tamil Nadu, India during 18-20 February 2020
3	Strategies to control morphology of manganese oxide films in galvanostatic electrodeposition, Second National Seminar on Responsible Research and Innovations in Science and Technology at Guru Nanak College, Budhlada (PB) February 29, 2020.
4	International conference on recent advances in emerging technologies, ICRACET-2016, Feb. 23-24, 2016 at S.G.G.S W. University, Fatehgarh Sahib
5	National workshop on advanced techniques for surface characterization Oct. 28-30, 2015 at Thapar University, Patiala.
6	Two day national seminar on new frontiers in physics, Mar. 02-03, 2016 at Gandhi Memorial National postgraduate college, Ambala (HR)

7	Short term course recent advances in nanostructural materials, Sep. 19-23, 2016 at Dr. B.R. Ambedkar National Institute of Technology, Jalandhar 144011(PB.)
8	Second International conference on condensed matter and applied physics, Nov. 24-25, 2017. at Govt. Engineering College, Bikaner (RJ)
9	GIAN sponsored two weak course on **Redox flow batteries for electrical energy storage** organized by I.I.T. Delhi, Dec. 1, 2017 to Dec. 14, 2017.
10	GIAN sponsored one weak course on **Electrochemical energy conversion and storage** organized by N.I.T. Kurukshetra (HR), Nov. 26,2018 to Nov. 30, 2018

Date: 01/07/ 2023

Avtar Singh

Signature of the Applicant