


Curriculum Vitae

Full Name:	Dr. SURESH CHANDRA GAIROLA			
Designation:	Professor			
Department:	Physics			
Campus:	Pauri			
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Education Qualification:	Degree,	University,	Year	
	M.Sc.	Garhwal University, Srinagar(Garhwal)	(1988)	
	D.Phil.	Avadh University, Faizabad, U.P.	(1992)	
Teaching Experience:	<u> 29 </u> Years	Research Experience:	<u> 29 </u> Years	
Research Interest and Fields of Specialization				
Condensed Matter Physics				
Honours & Awards				
<p>Awarded best oral presentation Paper entitled 'Theory of Phonon - phonon Interaction in an Isotopically Disordered Semiconductor Crystals' presented in the National Conference on Future Perspectives of Science & Technology In Society and Governance(FPSTSG-2014), organized by Department of Chemistry, Physics & Mathematics, S.S.V. College, Hapur (U.P.), India, held on 29-30 November, 2014.</p>				
Membership of Scientific Organizations				
<ol style="list-style-type: none"> 1. Indian Physical Society 2. Indian Association of Physics Teachers 3. Nuclear Track Society of India 				
Research Supervision (No. of Ph.D. Degree Awarded/Submitted/Registered)-01(Registered)				
Administrative Experience				
<ol style="list-style-type: none"> 1. Holding the charge of Incharge Head of Physics Department of Pauri Campus since from 09.10.17. 2. Worked as a Incharge Departmental Library Physics. 3. Worked as an Assistant Dean students` Welfare in academic year 2016-2017, 2017-2018, and 2018-2019. 4. Worked as an Assistant Proctor in Pauri Campus during the session 2011-12, 2012-2013, 2013-14, 2014-2015, and 2015-2016. 5. Worked as a member of Departmental purchase committee (Equipments and Books). 6. Worked as a member of Anti Ragging Committee for session 2010-11 and 2017-18. 7. Discharged duties of programme officer of National Service Scheme from 01.04.2007 to 31.03.2010. 8. Discharged duties of Head of Physics Department, Pauri Campus time to time in absence of Head Physics Pauri campus. 9. Worked as a member of Admission committee in UG and PG level. 10. Worked as a member of M.Sc. admission counselling. 				
Conference/Symposium/Workshop Attended during last five years (2014-2019)				
International				
<ol style="list-style-type: none"> 1. 'Effect of Electron Phonon Interaction in Raman Spectra of Germanium' presented in the International Conference on Condensed Matter Physics – 2014 (ICMP-2014), organized by Department of Physics, Himachal Pradesh University, Shimla from 4-6 November, 2014. 2. 'Anharmonic Effects on Raman Tensor of Isotopically Disordered Semiconductor Crystals' presented in SRMS International Conference on Science and Technology 2015 "Exploring the Potential of Convergence" at Shri Ram Murti Smarak College of Engineering & Technology, Bareilly, held on 27th & 28th February 2015. 				

3. 'Electron and Phonon in Raman Spectra of LO phonon of Gallium Phosphide' presented in **4th International Conference on Current Developments in Atomic, Molecular, Optical and Nano Physics with applications (CDAMOP-2015)**, organized by Department of Physics & Astrophysics, University of Delhi, Delhi, India from March 11th -14th, 2015.

4. 'Effect of Electron Phonon Interaction on Microwave Attenuation of silicon' presented in the **International Conference on Condensed Matter & Applied Physics(ICC2015)**, organized by Department of Physics, Govt. Engineering College, Bikaner during October 30-31, 2015.

5. 'Electron phonon interaction in Raman Spectra of transverse optical(TO) phonon of Gallium phosphide' presented in the **International Conference on Condensed Matter & Applied Physics(ICC2015)**, organized by Department of Physics, Govt. Engineering College, Bikaner during October 30-31, 2015.

National

1. 'Phonon - Phonon Interaction in Microwave Attenuation of Semiconductor Crystals' presented in the **National Conference on Advances in Material Science for Energy Applications (AMSEA-2014)**, organized by Department of Physics, University of Petroleum and Energy Studies (UPES), Dehradun, India held on January 9-10, 2014.

2. 'Theory of Phonon - phonon Interaction in an Isotopically Disordered Semiconductor Crystals' presented in the **National Conference on Future Perspectives of Science & Technology In Society and Governance(FPSTSG-2014)**, organized by Department of Chemistry, Physics & Mathematics, S.S.V. College, Hapur (U.P.),India, held on 29-30 November, 2014.

3. 'Phonon - Phonon Interaction in Optical Absorption of Gallium Phosphide' in the **8th National Conference on Thermophysical Properties (NCTP-2015)**, organized by Department of Physics, Malaviya National Institute of Technology Jaipur, held from December 14-16, 2015.

4. 'Anharmonic Effects on Debye-Waller Factor of Semiconductor Crystals' in the **3rd National Conference on Multifunctional Advanced Materials**, organized by Himalayan Center of Excellence in Nanotechnology, Shoolini University, Solan(H.P.), India from May 11-13, 2016.

5. 'Anharmonic Effects on Phonon Lifetime in Isotopically Disordered Semiconductor Crystals' in the **National Conference on Science & Technology for National Development**, organized by The Indian Science Congress Association: Haridwar Chapter and Department of Chemistry, Gurukula Kangri Vishwavidyalaya, Haridwar, held from November 20-22,2016.

6. 'Theory of Electron Density of States in Isotopically Disordered Semiconductor Crystals' in the **National Conference on Current Trends in Applied Sciences**, jointly organized by I.Q.A.C. & Faculty of Science, J.V.Jain College, Saharanpur, UP, held on 18th & 19th March-2017.

7. Active participation and Worked as a convener of transport committee in the **19th annual conference of Vijnāna Parishad of India on Recent Advances in Mathematics and Mathematical Sciences and their Applications (RAMMSA 2016) & Symposium on Fixed Point Theory and Applications** held during November 10-12, 2016, organized by Department of Mathematics, H. N. B. Garhwal University Campus Pauri, Pauri, Pauri(Garhwal), Uttarakhand, India.

8. Participated in one day **National Seminar on Higher Education and Possibilities of Open University** on dated 02.12.2014, organized by Uttarakhand open University, held at H. N. B. Garhwal University Campus Pauri, Pauri, Uttarakhand, India.

Publications during last five years (2014-2019)

Journals

1. Debye-Waller Factor in an Isotopically Disordered Semiconductor Crystal, Gairola, S. C., **Acta**

Physica Polonica A,129(6), pp 1141-1146(2016).ISSN: 0587-4246.

Indexed Journal

Journal Impact factor: 0.43

2.Phonon – Phonon Interaction in Raman Scattering of Germanium

Chauhan, A. and Gairola, S. C.

International Research Journal of Natural and Applied Sciences(IRJNAS)

2(4),pp 210-220(2015).

ISSN(Online): 2349-4077

Indexed Journal

Journal Impact factor : 2.818

3.Anharmonic Effects on Raman Scattering of Longitudinal Optical(LO) Phonon of Gallium Phosphide

Chauhan, A. and Gairola, S. C.

International Journal of Research in Engineering and Applied Sciences(IJREAS),5(4),pp 124-134(2015).

ISSN(o) : 2249-3905, ISSN(p):2349-6525.

Indexed Journal

Journal Impact factor-5.088

4.Phonon – Phonon Interaction in Spectral Density Function of Semiconductor Crystals

Gairola, S. C.

International Journal of Research in Engineering and Applied Sciences(IJREAS) 5(4), pp 106-114(2015).

ISSN(o) : 2249-3905, ISSN(p):2349-6525.

Indexed Journal

Journal Impact factor-5.088

5.Theory of Phonon Density of States of an Isotopically Disordered Semiconductor Crystals

Gairola, S. C.

International Journal of Research in Engineering and Applied Sciences(IJREAS)

5(3),pp 101-108(2015).ISSN(o): 2249-3905, ISSN(p):2349-6525.

Indexed Journal

Journal Impact factor-5.088

Books

1.Phonon Phonon Interaction in Infrared Absorption of Semiconductor Crystals

Gairola, S. C.

Published in the Book entitled **Advances in Nanoscience**, Editors A. K. Shukla, P. K. Jha, Manmohan, published by Nirmal Publication (India), Delhi,ch.20, pp 186-194(2015).

ISBN: 978-81-931751-6-3

2.Theory of Electron Phonon Interaction in Semiconductor Crystals

Gairola, S. C.

Published in the Book entitled **Electron Collision Processes in Atomic and Molecular Physics**, Editor P. C. Minaxi Vinodkumar, Published by Narosa Publishing House Pvt. Ltd., New Delhi, ch. 3,pp 193-196(2014).

ISBN : 978-81-8487-343-6.

Total Number of Research Publications: 24