


## Bio-Data

# PROF. DEVRAJ SINGH

<b>Permanent Address:</b>  104, Home Green Apartments Bamnoli, Dwarka Sector-28 New Delhi-110077 <b>Date and place of Birth:</b> 30/06/1974, Etawah, U.P., India. <b>Martial Status:</b>	<b>Correspondence Address:</b> B-1, Sangam Teachers Residential Complex, VBS Purvanchal University Jaunpur-222003, U.P., India Cell No.:+91-9810549461 E-mail: <a href="mailto:devraj2001@gmail.com">devraj2001@gmail.com</a>  Married	
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### Education Qualifications:

Exam. Passed	Board / University	Year	Subjects	%age
High- School	U.P.Board, Allahabad	1989	Hindi, English, Mathematics-2, Science-2, Social Science, Biology	74.3
Inter-mediate	U.P.Board, Allahabad	1991	Gen. Hindi, English, Physics, Chemistry, Mathematics	64.2
B.Sc.	Kanpur University	1995	Physics, Chemistry, Mathematics & General English	66.1
M.Sc.	C.S.J.M.Univ., Kanpur	1999	Physics with Electronics specialization	63.9
D.Phil.	University of Allahabad, Allahabad	2002	Title: <b>“Study of ultrasonic attenuation in condensed materials”</b> under supervision of Prof. Raja Ram Yadav, Physics Department., A.U. <b>Barcode:5010010155128</b>	Thesis adjudged Excellent
A.N.S.I. (Sugar Technology)	National Sugar Institute, Kanpur	1998	Sugar Technology, Sugar Chemistry, Sugar Engg., Instrumentation, Management Awareness etc.	68.46

### Experience:

#### (a) Teaching Experience:

- Department of Physics  
Iswar Saran Degree College  
(University of Allahabad)  
Allahabad-211004, India  
Lecturer  
21<sup>st</sup> September, 2002-31<sup>st</sup> May, 2007
- Department of Applied Sciences (PHYSICS)  
Amity School of Engineering and Technology,  
Bijwasan, New Delhi-110 061, India  
Lecturer  
1<sup>st</sup> June, 2007-28<sup>th</sup> Dec., 2010
- Department of Applied Sciences (PHYSICS)  
Amity Institute of Applied Sciences  
Amity University Uttar Pradesh,  
Noida-201313, India  
Assistant Professor-III  
1<sup>st</sup> August, 2018-31<sup>st</sup> December, 2019
- U.P.Rajarshi Tandon Open University,  
Allahabad, India  
Counsellor of B.Sc. Physics  
December, 2003 –May, 2007
- Department of Applied Sciences (PHYSICS)  
Amity School of Engineering and Technology  
Bijwasan, New Delhi-110 061, India  
Assistant Professor-III  
28<sup>th</sup> Dec, 2010-31<sup>st</sup> July, 2018
- Department of Physics  
**Prof. Rajendra Singh (Rajju Bhaiya) Institute of Physical Sciences for Study & Research, VBS Purvanchal University, Jaunpur-222003**  
**Professor**  
1<sup>st</sup> January, 2020-

- #### (b) Research Experience:
- Ultrasonics Group, Dept. of Physics  
University of Allahabad, Allahabad, India  
Research Fellow  
December, 1999- September, 2002

#### (c) Technical Experience:

- Experimental Sugar Factory (National Sugar Institute), Kanpur, India  
Crushing season 1996-1997, Capacity of plant=100TCD

Student of A.N.S.I. (Sugar Technology) 1<sup>st</sup> year

Work: Preliminary all experimental knowledge about process of manufacturing of cane sugar

- The Saraswati Sugar Mills, Yamuna Nagar (Haryana), India

Crushing season 1997-1998, Capacity of plant=10000TCD

Student Chemist

Work: Supervision of all process of cane sugar manufacturing and to collect all informations of the sugar plant.

### Interested in Research Fields:

- Ultrasonics
- Acoustics
- Materials Science
- Lattice Dynamics
- Nondestructive Evaluations

### Courses taught:

- Mechanics (B.Sc.)
- Optics (B.Sc.)
- Physics of Semiconductor Devices (M.Sc.)
- Microwaves (M.Sc.)
- Thermal Physics (B.Sc.)
- Quantum Mechanics (B.Sc.)
- Applied Physics (B.Tech.)

### References:

- Prof. Raja Ram Yadav, Former VC-VBSPU  
Ex. Head of Department of Physics  
University of Allahabad, Prayagraj, India  
E-mail: [rriyadav1@rediffmail.com](mailto:rriyadav1@rediffmail.com)  
Tel. No.: +91-9415347913
- Dr. Sanjay Yadav, Ex.-Senior Principal Scientist and Head Pressure, Vacuum and Ultrasonic Metrology Section & Professor-AcSIR, Faculty of Physical Sciences CSIR-National Physical Laboratory (CSIR-NPL)  
New Delhi – 110 012, India  
E-mail: [ysanjay62@gmail.com](mailto:ysanjay62@gmail.com), Tel : +91-11-4709 1206

- Prof. Dr. V. Rajendran  
Vice-Chancellor  
AMET University,  
East Coast Road,  
Kanathur 603112, Tamil Nadu, India  
E-mail: [veerajendran@gmail.com](mailto:veerajendran@gmail.com)
- Dr. Nico F. Declercq, Professor  
Woodruff School of Mechanical Engineering  
Georgia Institute of Technology  
Atlanta, GA 30332, USA  
E-mail: [nico.declercq@me.gatech.edu](mailto:nico.declercq@me.gatech.edu)  
Tel. No.: +33(0)38720-3924

**Publications:** Papers in Journals: **127**, Papers in conference proceedings: **09**; Books: **24**, Book chapters: **02**,

### D.Sc. Guidance:

#### Guiding

S. No.	Name of D.Sc. student	Enrolment No. and University	Topic of the thesis	Role as supervisor/Co-supervisor
1.	Dr. Mukesh Kumar Zope	PU22/260036	STUDY OF PHYSICAL AND DOSIMETRIC ASPECTS OF INTENSITY MODULATED AND RAPID ARC RADIATION DELIVERY IN HEAD AND NECK CANCER: A PROPECTIVE STUDY	Advisor

### Ph.D Guidance:

S. No.	Name of Ph.D. student	Enrolment No. and University	Topic of the thesis	Role as supervisor/Co-supervisor	Year of award
<b>GUIDED:</b>					
1.	Dr. Raj Kumar	NIMSUR/Dir./Ph.D./2009/9124 NIMS University, Jaipur	ULTRASONIC STUDY OF SMART MATERIALS FOR ENGINEERING APPLICATIONS	Co-supervisor	2015
2.	Dr. (Mrs.) Shivani Kaushik	NIMSUR/Dir./Ph.D./2009/9117 NIMS University, Jaipur	ULTRASONIC NON-DESTRUCTIVE TESTING CHARACTERISATION OF CONDENSED MATERIALS	Co-supervisor	2016
3.	Dr. (Mrs.) Vyoma Bhalla	a4431413005 Amity University Uttar-Pradesh, NOIDA	INVESTIGATION OF ULTRASONIC AND THERMOPHYSICAL PROPERTIES FOR SOME ADVANCED MATERIALS	Supervisor	2017
4.	Dr. Amit Kumar	AS1631416001 Amity University Haryana, Manesar	ULTRASONIC AND THERMOPHYSICAL PROPERTIES OF CONDENSED MATERIALS	Co-supervisor	2019
5.	Dr. (Mrs.) Chinmayee Tripathi	14-PHY-001 The Ravenshaw University, Cuttack, Odisha	STUDY OF MECHANICAL AND THERMAL PROPERTIES OF fcc STRUCTURED MATERIALS USING ULTRASONICS	Co-supervisor	2019
6.	Dr. (Mrs.) Jyoti Bala	00316490416 Guru Gobind Singh	STUDY OF ULTRASONIC AND BIO-SENSING PROPERTIES OF CONDENSED	Supervisor	2022

		Indraprastha University, Dwarka Sector 16C, New Delhi	MATERIALS		
7.	Dr. (Mrs.) Bhawan Jyoti	00116496416 Guru Gobind Singh Indraprastha University, Dwarka Sector 16C, New Delhi	ELASTIC, ULTRASONIC AND THERMOPHYSICAL PROPERTIES OF CONDENSED MATERIALS	Supervisor	2022
<b>GUIDING</b>					
8.	Mr. Anurag Singh	PU20/4440 Veer Bahadur Singh Purvanchal University, Jaunpur	MECHANICAL AND THERMOPHYSICAL PROPERTIES OF ADVANCED MATERIALS FOR INDUSTRIAL APPLICATIONS	Supervisor	
9.	Ms. Jyotsana Chauhan	PU16/091850 Veer Bahadur Singh Purvanchal University, Jaunpur	STUDY OF ULTRASONIC, MECHANICAL AND THERMAL PROPERTIES OF SOLID MATERIALS AND NANOFUIDS	Supervisor	
10.	Mr. Praveen Singh	PU22/286002 Veer Bahadur Singh Purvanchal University, Jaunpur	ULTRASONIC AND THERMOPHYSICAL INVESTIGATIONS ON CONDENSED MATERIALS	Supervisor	
11.	Mr. Abhishek Pathak	PU22/286004 Veer Bahadur Singh Purvanchal University, Jaunpur	ULTRASONIC EVALUATIONS OF MATERIALS FOR ENGINEERING APPLICATIONS	Supervisor	
12.	Mr. Neeraj Kumar Singh	PU22/286107 Veer Bahadur Singh Purvanchal University, Jaunpur	STUDY OF ACOUSTICAL AND THERMOPHYSICAL PROPERTIES OF MATERIALS	Supervisor	
13.	Mr. Rakesh Kumar	PU/286126 Veer Bahadur Singh Purvanchal University, Jaunpur	ULTRASONIC TECHNIQUE AS A TOOL FOR MATERIALS CHARACTERIZATION	Supervisor	

### Research Project:

- Centre of Excellence, U.P. State Higher Education Board, Lucknow on the "Design & Development of perovskite Solar Cells on Biodegradable Paper Substrates" [Rs. 475000/- for the session 2022-2023]

**Scholarships:** (a) National Integrated Scholarship- during High School  
(b) National Scholarship-U.P.Govt.-during Intermediate  
(c) U.P.Chhatra Kalyan Nidhi- during D.Phil.

### Extra Curricular Activities:

- Head, Physics Department, Iswar Saran Degree College, Allahabad from July 1, 2003 to May 31, 2007.
- Convener, A Seminar on Latest Trends in Computer Technology (LATCOT-2004) at Iswar Saran Degree College, Allahabad on January 11, 2004.
- Assistant Dean Student Welfare, Iswar Saran Degree College, Allahabad from December 1, 2004 to May 31, 2007.
- Member, Organizing committee, National Symposium on Ultrasonics (NSU-XV) at Physics Department, University of Allahabad, Allahabad during 1-3 Nov., 2006.
- Member, Organizing committee, National Seminar on Latest Developments in Computer Technology ( 4-5 February, 2007) at Iswar Saran Degree College of University of Allahabad, Allahabad.
- Member, B.Sc. Admission committee during sessions 2003-2004, 2004-2005 and 2005-2006 at Iswar Saran Degree College of University of Allahabad, Allahabad.
- Head, Applied Physics Department, Amity School of Engineering & Technology, Bijwasan, New Delhi since March, 2009.
- Member, Organizing committee, National Symposium on Ultrasonics (NSU-XIX) at National Physical Laboratory, New Delhi during 30-31 October., 2012.
- Faculty Advisor, Indian Society for Technical Education (ISTE)- ASET chapter from 2008-2012.
- Scientific Memberships:  
Life Fellow of Ultrasonics Society of India (LF-104).  
Life Fellow of Acoustical Society of India (LF-261)  
Life Member of India Association of Physics Teachers (LM-9777, L7008).  
Life Member of Materials Research Society of India (LM-1251B).  
Life Member of Ultrasonics Society of India (LM-168).  
Life Member of Metrology Society of India (LM-976).  
Life Member of Indian Physics Association (DEL/LM/13248).

Life Member of Ion Beam Society of India (LM249)

• **Journal Referee**–

Indian Journal of Pure & Applied Physics

Journal of Pure & Applied Ultrasonics

Results in Physics (Elsevier)

Platinum Metals Review (Now Johnson Matthey Technical Review)

International Journal of Applied Mechanics (World Scientific)

MAPAN-Journal of Metrology Society of India (Springer)

Advanced Materials Letters

African Journal of Pure and Applied Chemistry

Research Journal of Earth and Planetary Sciences

Walailak Journal of Science and Technology

Applied Acoustics (Elsevier).

Arabian Journal of Chemistry (Elsevier)

Journal of Physics and Chemistry of Solids (Elsevier)

Optoelectronics and Advanced Materials

Journal of Molecular Liquids

Journal of Analytical Science and Technology

Journal of Acoustical Society of India

Sensors and Actuators A: Physical (Elsevier)

Particulate Science and Technology: An International Journal (Taylor & Francis)

Ceramics International (Elsevier)

RSC Advances

Experimental Thermal and Fluid Science (Elsevier)

Journal of Physical Science

Zeitschrift für Physikalische Chemie (Degruyter)

Physica B: Condensed Matter (Elsevier)

Materials Science & Engineering B (Elsevier)

Journal of Physical Science

Journal of Magnetism and Magnetic Materials (Elsevier)

Nano-Micro Letters (Elsevier)

Zeitschrift für Naturforschung A – A Journal of Physical Sciences (Degruyter)

Indian Journal of Chemistry, Section A

Journal of the Electrochemical Society

Indian Journal of Engineering and Materials Science

Materials Today (Elsevier)

Egyptian Journal of Petroleum

Indian Journal of Chemistry: Section A (IJCA)

Materials Today: Proceedings

Phase Transition

Molecular Symposia

Journal of Scientific and Industrial Research (JSIR)

Indian Journal of Engineering & Materials Science (IJEMS)

Intermetallics (Elsevier)

Pramana-Journal of Physics (Springer)

Materials Letters (Elsevier)

Solid State Sciences (Elsevier)

Measurement (Elsevier)

Water, Air, & Soil Pollution (Springer)

• **Editor in**

Journal of the Acoustical Society of India

Journal of Pure & Applied Ultrasonics

• **Associate Editor:** MAPAN-Journal of Metrology Society of India (Springer)

• Publication Secretary: Executive Council of *Ultrasonics Society of India (2012-2022)*

• Member: Regional Council (RC1: Delhi & Haryana) of *Indian Association of Physics Teachers: (2012-2019)*

• Treasurer: Regional Council (RC1: Delhi & Haryana) of *Indian Association of Physics Teachers: (2019)*

• Convener, National Seminar on Materials Characterization by Ultrasonics, **NSMCU-2012** at Amity School of Engineering & Technology, Bijwasan, New Delhi on 3-4 April, 2012.

- Recognized supervisor at Guru Gobind Singh Indraprastha University, New Delhi. (2015-2018)
- Recognized supervisor at Amity University, Noida.(2012-2019)
- Member: Organising Committee, The 2<sup>nd</sup> Conference on New Advances in Acoustics (NAA 2016), February 28 to March 1, 2016 in Beijing, China
- Jury Member: National Level Exhibition and Project Competition (NLEPC) under INSPIRE Awards component of Department of Science & Technology, Govt. of India
- Member: Organising Committee, International Conference on Engineering Physics, Materials and Ultrasonics (ICEPMU) , on 3-4 June 2016 at The Northcap University (NCU), Gurgaon,
- Session organizer in 13<sup>th</sup> Western Pacific Acoustics Conference (WESPAC-2018) on 11-15 November, 2018 at the CSIR-National Physical Laboratory, New Delhi
- Session chair, SPIN – 2019: 6<sup>th</sup> International Conference on Signal Processing and Integrated Networks on 7<sup>th</sup> and 8<sup>th</sup> March, 2019 at ASET, Amity University, Noida.
- Co-Chairman, ICUMSAT-2019, VBSP University, Jaunpur
- Director, Prof. Rajendra Singh (Rajju Bhaiya) Institute of Physical Sciences for Study & Research, Veer Bahadur Singh Purvanchal University, Jaunpur, Uttar Pradesh, India from 13<sup>th</sup> January, 2020 to 7<sup>th</sup> June, 2023.
- **Director**, Dattopant Thengadi Law Institute, Veer Bahadur Singh Purvanchal University, Jaunpur, Uttar Pradesh, India since 7<sup>th</sup> June, 2023.
- Member: Executive Council of *Acoustical Society of India* (2024-2026)



(Dr. Devraj Singh)

# List of Publications of Dr. Devraj Singh

## A. Papers in Referred Journals

S.No	Authors	Year	Title	Complete reference of journal
1.	R.R.Yadav and <b>Devraj Singh</b>	2000	Temperature dependence of ultrasonic absorption in lanthanum monochalcogenides	<b>Journal of the Acoustical Society of India</b> Vol. 28, No.1-4, pp.191-198
2.	R.R.Yadav and <b>Devraj Singh</b>	2001	Behaviour of ultrasonic attenuation in intermetallics <a href="https://doi.org/10.1016/S0966-9795(00)00089-3">https://doi.org/10.1016/S0966-9795(00)00089-3</a>	<b>Intermetallics</b> (Elsevier) Vol.9. No.3, pp.189-194 <b>(IF=4.3)=SCOPUS</b>
3.	R.R.Yadav and <b>Devraj Singh</b>	2001	Ultrasonic attenuation in lanthanum monochalcogenides DOI: <a href="https://doi.org/10.1143/JPSJ.70.1825">10.1143/JPSJ.70.1825</a>	<b>Journal of the Physical Society of Japan</b> .Vol.70, No.6, pp.1825- 1832 <b>(IF= 1.579)=SCOPUS</b>
4.	S.K.Kor, G.Pandey and <b>Devraj Singh</b>	2001	Ultrasonic attenuation in semimetallic GdX single crystal (X=P,As,Sb and Bi) in the temperature range 10 to 300K.	<b>Indian Journal of Pure &amp; Applied Physics</b> Vol.39, No. 8, pp.510-513 <b>(IF=0.7)=SCOPUS</b>
5.	R.R.Yadav and <b>Devraj Singh</b>	2001	Absorption at low temperatures	<b>Journal of the Acoustical Society of India</b> Vol. 29, No.1-2, pp.220-224
6.	<b>Devraj Singh</b> , R.R.Yadav and A.K.Tiwari	2002	Ultrasonic attenuation in semiconductors	<b>Indian Journal of Pure &amp; Applied Physics</b> Vol.40,No.12, pp.845-849 <b>(IF=0.7)=SCOPUS</b>
7.	R.R.Yadav, <b>Devraj Singh</b> and A.K. Tiwari	2002	Ultrasonic evaluations in rare-earth metals	<b>Journal of the Acoustical Society of India</b> Vol. 30, No.1-2, pp.59 – 63
8.	S.K.Kor,R.R.Yadav and <b>Devraj Singh</b>	2003	Ultrasonic studies of CTAB in glycol <a href="https://doi.org/10.1080/10587250216176">https://doi.org/10.1080/10587250216176</a>	<b>Molecular Crystals and Liquid Crystals</b> (Taylor & Francis) Vol.392, pp 75-81 <b>(IF= 0.7)=SCOPUS</b>
9.	S.K.Kor, G.Pandey and <b>Devraj Singh</b>	2003	Ultrasonic attenuation in lanthanum monochalcogenides from 5K to 500K	<b>Acta Acustica united with Acustica</b> Vol.89, pp.105-109 <b>(IF= 1.510)=SCOPUS</b>
10.	R.R.Yadav and <b>Devraj Singh</b>	2003	Effect of thermal conductivity on ultrasonic attenuation in praseodymium monochalcogenides <a href="https://doi.org/10.1134/1.1608987">https://doi.org/10.1134/1.1608987</a>	<b>Acoustical Physics (Moscow)</b> Vol.49,No.5, pp 595-604 <b>(IF= 0.9)=SCOPUS</b>
11.	<b>Devraj Singh</b> and R. R. Yadav	2003	The thermal conductivity and ultrasonic absorption in dielectric crystals	<b>Journal of Pure &amp; Applied Ultrasonics</b> Vol.25,No.3, pp. 82-87: <b>UGC</b>
12.	R.R.Yadav, A.K. Tiwari and <b>Devraj Singh</b>	2003	How the ultrasonic parameters of Ce-monopnictides are so sensitive to pressure	<b>Journal of the Acoustical Society of India</b> Vol. 31,No.1-4, pp.317-319
13.	S.K.Kor, <b>Devraj Singh</b> and A.K. Srivastava	2004	Ultrasonic attenuation in PrS, PrSe and PrTe	<b>Journal of the Acoustical Society of India</b> Vol. 32, No.1-2, pp.238-242
14.	<b>Devraj Singh</b> and R.R.Yadav	2004	Ultrasonic properties of SmS	<b>Journal of the Acoustical Society of India</b> Vol. 32, No.1-2, pp.279-281
15.	R.R.Yadav, P.Awasthi and <b>Devraj Singh</b>	2004	Ultrasonic attenuation in Fe <sub>3</sub> O <sub>4</sub>	<b>Journal of the Acoustical Society of India</b> Vol. 32, No.1-2, pp.282-286

16.	<b>Devraj Singh,</b> R.R.Yadav and A.K.Gupta	2004	Acoustical attenuation in scandium antimonide	<b>Journal of the Acoustical Society of India</b> Vol. 32, No.1-2, pp.252-254
17.	S.K.Kor, <b>Devraj Singh</b> and A.K.Srivastava	2005	Ultrasonic studies of thulium monochalcogenides	<b>Indian Journal of Pure &amp; Applied Physics</b> Vol.43,No.5, pp.355-358 <b>(IF=0.7)=SCOPUS</b>
18.	R.R.Yadav, A.K.Gupta and <b>Devraj Singh</b>	2005	Ultrasonic attenuation in Ni-Pd alloys at high temperature phase <a href="https://doi.org/10.1007/s10853-005-4397-y">2005JPhSt...9..227Y</a>	<b>Journal of Physical Studies</b> Vol.9,No.3, pp.227-232 <b>(IF=0.131)=SCOPUS</b>
19.	R.R.Yadav, A.K.Tiwari and <b>Devraj Singh</b>	2005	Effect of pressure on ultrasonic attenuation in Ce-monopnictides at low temperature <a href="https://doi.org/10.1007/s10853-005-4397-y">https://doi.org/10.1007/s10853-005-4397-y</a>	<b>Journal of Materials Science</b> Vol.40,No.19, pp.5319-5321 <b>(IF= 3.5)=SCOPUS</b>
20.	R.R.Yadav, P.Awasthi and <b>Devraj Singh</b>	2005	Akhieser damping in refractory compounds	<b>Journal of the Acoustical Society of India</b> Vol. 33, No. 1-4. Pp. 177-181
21.	D.K.Pandey, <b>Devraj Singh</b> and R.R. Yadav	2007	Ultrasonic wave propagation in IIIrd group nitrides <a href="https://doi.org/10.1016/j.apacoust.2006.04.004">https://doi.org/10.1016/j.apacoust.2006.04.004</a>	<b>Applied Acoustics</b> (Elsevier) Vol. 68, No.7, pp.766-777 <b>(IF=3.4)=SCOPUS</b>
22.	D.K.Pandey, <b>Devraj Singh,</b> P.K.Yadawa and R. R. Yadav	2007	Ultrasonic velocity and absorption in lyotropic liquid crystal systems	<b>Macromolecule-An Indian Journal</b> Vol. 3, No.3, pp.75-78
23.	D.K.Pandey, <b>Devraj Singh,</b> R. R. Yadav and P.K.Yadawa	2007	Ultrasonic studies of CTAB/decanol/water systems	<b>Macromolecule-An Indian Journal</b> Vol. 3, No.3, pp.79-82
24.	<b>Devraj Singh</b> and D.K.Pandey	2008	Acoustic investigations on intermetallics	<b>Materials Science-An Indian Journal</b> Vol. 4, No.2, pp.67-71
25.	A.K.Yadav, R.R.Yadav, D.K.Pandey and <b>Devraj Singh</b>	2008	Ultrasonic study of fission products precipitated in the nuclear fuel doi:10.1016/j.matlet.2008.02.036	<b>Materials Letters</b> (Elsevier) Vol.62, pp.3258-3261 <b>(IF=2.7)=SCOPUS</b>
26.	<b>Devraj Singh,</b> D.K.Pandey, P.K.Yadawa and A.K.Yadav	2009	Attenuation of ultrasonic waves in V, Nb and Ta at low temperatures <a href="https://doi.org/10.1016/j.cryogenics.2008.08.008">https://doi.org/10.1016/j.cryogenics.2008.08.008</a>	<b>Cryogenics</b> (Elsevier) Vol. 49, No.1, pp. 12-16 <b>(IF=1.8)=SCOPUS</b>
27.	<b>Devraj Singh</b> and D.K.Pandey	2009	Ultrasonic investigations in intermetallics <a href="https://doi.org/10.1007/s12043-009-0034-7">https://doi.org/10.1007/s12043-009-0034-7</a>	<b>Pramana-journal of Physics</b> (Springer)Vol. 72, No.2, pp. 389-398 <b>(IF=1.9)=SCOPUS</b>
28.	<b>Devraj Singh,</b> D.K.Pandey and P.K.Yadawa	2009	Ultrasonic wave propagation in rare-earth monochalcogenides DOI: 10.2478/s11534-008-0130-1	<b>Central European Journal of Physics</b> [Now <i>Open Physics</i> -DE GRUYTER] (Springer/Versita) Vol.7, pp. 198-205 <b>(IF=0.765)=SCOPUS</b>
29.	D.K.Pandey, <b>Devraj Singh</b> and P.K.Yadawa	2009	Ultrasonic study of osmium and ruthenium DOI: 10.1595/147106709X430927	<b>Platinum Metals Review</b> Vol. 53, pp. 91-97 <b>(IF= 2.704) SCOPUS</b>
30.	<b>Devraj Singh</b>	2009	Behaviour of acoustic attenuation in rare-earth chalcogenides doi:10.1016/j.matchemphys.2008.11.025	<b>Materials Chemistry &amp; Physics</b> (Elsevier) <u>Vol. 115, No. 1</u> , pp. 65-68 <b>(IF=4.3)=SCOPUS</b>

31.	P.K.Yadawa, <b>Devraj Singh</b> , D.K.Pandey and R.R.Yadav	2009	Elastic and acoustic properties of heavy rare-earth metals DOI: <a href="https://doi.org/10.2174/1874837600902010061">10.2174/1874837600902010061</a>	<b>The Open Acoustic Journal</b> , Vol. 2, pp.61-67
32.	<b>Devraj Singh</b> and P.K.Yadawa	2010	Effect of platinum addition to coinage metals on their ultrasonic properties doi:10.1595/147106710X500602	<b>Platinum Metals Review</b> Vol. 52, pp.172-179 <b>(IF=2.704: SCOPUS)</b>
33.	<b>Devraj Singh</b> , P.K.Yadawa & S.K.Sahu	2010	Effect of electrical resistivity on ultrasonic attenuation in NpTe doi:10.1016/j.cryogenics.2010.04.005	<b>Cryogenics</b> (Elsevier) Vol. 50, pp.476-479 <b>(IF=1.8) = SCOPUS</b>
34.	P.K.Yadawa, D.K.Pandey, <b>Devraj Singh</b> , R.R.Yadav & G.Mishra	2010	Computations of ultrasonic parameters of lanthanide metals Ti, Zr and Hf doi:10.3906/fiz-0902-7	<b>Turkish Journal of Physics</b> Vol.34, pp. 23-31 <b>(IF=0.202) = SCOPUS</b>
35.	<b>Devraj Singh</b> , D.K.Pandey, D.K.Singh and R.R.Yadav	2011	Propagation of ultrasonic waves in neptunium monochalcogenides doi:10.1016/j.apacoust.2011.04.002	<b>Applied Acoustics</b> (Elsevier) Vol. 72, pp. 737-741 <b>(IF=3.4) = SCOPUS</b>
36.	G.Mishra, S.K.Verma, <b>Devraj Singh</b> , P.K.Yadawa and R.R. Yadav	2011	Synthesis and ultrasonic characterization of Cu/PVP nanoparticles-polymer suspension doi:10.4236/oja.2011	<b>Open Journal of Acoustics</b> (Scientific Research, USA) Vol.1, pp.9-14
37.	P.K.Yadawa, <b>Devraj Singh</b> , D.K. Pandey, G. Mishra and R.R. Yadav	2011	Acoustic wave propagation in nanocrystalline RuCo alloys DOI:10.4236/ampc.2011.12003	<b>Advances in Materials Physics and Chemistry</b> Vol.1, pp.14-19
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107.	G. Singh, S. P. Singh, <b>Devraj Singh</b> , A. K. Verma, D. K. Pandey, and R. R. Yadav	2022	Elastic, mechanical, thermophysical, ultrasonic properties of divalent metal fluorides XF <sub>2</sub> (X = Ca, Sr, Cd, and Ba) 10.1007/s12043-022-02318-x	<b>Pramana-Journal of Physics</b> , Vol. 96, No. 2, pp. 97 <b>(IF=1.9)=SCOPUS</b>
108.	R. P. Singh, S. Yadav, <b>Devraj Singh</b> , G. Mishra	2022	Theoretical approach to investigate temperature dependent ultrasonic and thermophysical properties of Ti-Zr-Hf ternary alloy 10.22214/ijraset.2022.47382	<b>International Journal for Research in Applied Science &amp; Engineering Technology (IJRASET)</b> , Vol. 10, No. 11, pp. 1-6
109.	S. Yadav, R. P. Singh, <b>Devraj Singh</b> and G. Mishra	2022	Investigation of temperature dependent mechanical, thermophysical and ultrasonic properties of ScZrHf ternary alloy	<b>Journal of Pure and Applied Ultrasonics</b> Vol. 44 , No. 3-4 , pp. 79-85
110.	A. K. Maddheshiya, N. Yadav, S. P. Singh, <b>Devraj Singh</b> , P. S. Yadav and R.R. Yadav	2023	Mechanical, Elastic and Microstructural Investigations on HCP Phase High-Entropy Alloys <a href="https://doi.org/10.1007/s12647-023-00674-6">https://doi.org/10.1007/s12647-023-00674-6</a>	<b>MAPAN: Journal of Metrology Society of India</b> Vol. 38, No.4, pp.1019-1026, <b>(IF=1.0)=SCOPUS</b>

111.	A. Singh and <b>Devraj Singh</b>	2023	Investigation of alkali halide crystals AX (A = Li, Na, K; X = F, Cl, Br) by elastic, mechanical and ultrasonic analysis <a href="https://doi.org/10.1515/zna-2023-0138">https://doi.org/10.1515/zna-2023-0138</a>	<b>Zeitschrift für Naturforschung A</b> vol.78,No.10,pp.947-958. <b>(IF=1.8)</b> SCOPUS
112.	A.K. Maddheshiya, S.P. Singh, <b>Devraj Singh</b> , P.S. Yadav, R. R. Yadav and T.P. Yadav	2023	Theoretical investigation on the elastic and mechanical properties of high temperature alloys with partial replacement of Sc in $Hf_{0.25}Ti_{0.25}Zr_{0.25}Sc_{0.25-x}Al_x$ ( $x \leq 15\%$ ) <a href="https://doi.org/10.1515/zna-2023-0160">https://doi.org/10.1515/zna-2023-0160</a>	<b>Zeitschrift für Naturforschung A</b> vol. 78 no.11, pp.1051-1059. <b>(IF=1.8)</b> SCOPUS
113.	G. Mishra, A.K. Tiwari, S. Yadav and <b>Devraj Singh</b>	2023	Temperature dependent mechanical and thermophysical properties of B1 phase Ag-Pd alloys	<b>Applied Innovative Research</b> Vol.4, No.1, pp. 23-32
114.	R. P. Singh, S. Yadav, <b>Devraj Singh</b> , G. Mishra	2023	Theoretical investigation of temperature dependent elastic, thermophysical ultrasonic of Sc-Ti-Zr-Hf quaternary alloy	<b>Applied Innovative Research</b> Vol. 4, No.1, pp. 33-40
115.	A.K. Maddheshiya, S.P. Singh, <b>Devraj Singh</b> , R. R. Yadav and P.S. Yadav	2024	Nonlinear thermophysical behaviour of transition metal titanium <a href="https://doi.org/10.1595/205651323X16653975448311">https://doi.org/10.1595/205651323X16653975448311</a>	<b>Johnson Matthey Technology Review</b> Vol. 68, No. 1, pp. 37-48, <b>(IF=2.3)=SCOPUS</b>
116.	A. Singh and <b>Devraj Singh</b>	2024	Influence of temperature and orientation on elastic, mechanical, thermophysical and ultrasonic properties of platinum group metal carbides <a href="https://doi.org/10.1595/205651323X16902884637568">https://doi.org/10.1595/205651323X16902884637568</a>	<b>Johnson Matthey Technology Review</b> Vol. 68, No. 1, pp.49-59, <b>(IF=2.3)=SCOPUS</b>
117.	A. Singh, S. Tripathi, <b>Devraj Singh</b> and B. Jyoti	2024	Tailoring mechanical, thermophysical and ultrasonic properties of dysprosium monochalcogenides doi: 10.14456/easr.2024.32	<b>Engineering and Applied Science Research</b> Vol.51, No.3, pp.337-346, <b>SCOPUS</b>
118.	A. Singh and <b>Devraj Singh</b>	2024	Mechanical and thermophysical analysis of B2 structured ferromagnetic materials doi: 10.14456/easr.2024.43	<b>Engineering and Applied Science Research</b> Vol. 51, No. 4, pp. 462-472, <b>SCOPUS</b>
119.	A. Singh, S. Tripathi and <b>Devraj Singh</b>	2024	Elastic, thermophysical and ultrasonic investigation of tin monochalcogenides DOI: 10.1142/S0217984924502804	<b>Modern Physics Letters B</b> Vol.38, No.32, pp. 2450280 (13 pages), <b>(IF=1.9) =SCOPUS</b>
120.	A. Singh, A. Kumar, <b>Devraj Singh</b> , R. K. Thakur, A. K. Maddheshiya	2024	Temperature dependent elastic and ultrasonic properties of rare-earth europium mononictides $EuX$ (X=N, P, As, Sb) <a href="https://doi.org/10.56042/ijpap.v62i9.8072">https://doi.org/10.56042/ijpap.v62i9.8072</a>	<b>Indian Journal of Pure &amp; Applied Physics</b> Vol. 62, No. 9, pp.834-840, <b>(IF=0.7) SCOPUS</b>
121.	D.B. Patil, M. K. Zope, R. Madhawi, S. Raj, K. Kishor, S. Devi, D.K. Sinha, R. Singh, <b>Devraj Singh</b>	2024	Physical and radiobiological dosimetric comparison of volumetric arc treatment plans with or without flattening filter in synchronous bilateral breast cancer doi: 10.5505/tjo.2024.4346	<b>Turkish Journal of Oncology</b> (Turk Onkoloji Dergisi) Vol. 39, No. 4, pp.411-422, <b>SCOPUS</b>



122.	A. Singh, <b>Devraj Singh</b> , S. Tripathi and R. Khenata	2024	Impact of alloying on elastic, thermal and ultrasonic properties of wurtzite $Sc_xAl_{1-x}N$ <a href="https://doi.org/10.1016/j.physleta.2024.130010">https://doi.org/10.1016/j.physleta.2024.130010</a>	<b>Physics Letters A (Elsevier)</b> Vol. 527, 130010, pp.1-7, (IF=2.3) SCOPUS
123.	R. Kumar, <b>Devraj Singh</b> , S. Tripathi, R. Khenata and S. Bin-Omran	2025	Ultrasonic Interactions with Microstructural Defects in Platinum Group Metal Nitrides OsN, IrN and PtN <a href="https://doi.org/10.1595/205651325X17236415666329">https://doi.org/10.1595/205651325X17236415666329</a>	<b>Johnson Matthey Technology Review</b> Vol. 69, No. 2, pp. -, (IF=2.3)=SCOPUS (Article in Press)
124.	C. P. Yadav, D. K. Pandey, <b>Devraj Singh</b> and D. Singh	2024	Ultrasonic non-destructive evaluation of w-GaSe at different temperature <a href="https://doi.org/10.1080/10589759.2024.2331258">https://doi.org/10.1080/10589759.2024.2331258</a>	<b>Nondestructive Testing and Evaluation</b> Vol., No., pp., (IF=2.2) = SCOPUS (In Press)
125.	A. Kumar, S. P. Singh, A. Singh, <b>Devraj Singh</b> , R. K. Thakur and A. K. Maddheshiya	2024	Ultrasonic Grüneisen parameters of plutonium mononitrides <a href="https://doi.org/10.1007/s12648-024-03334-w">10.1007/s12648-024-03334-w</a>	<b>Indian Journal of Physics</b> Vol., No., pp., (IF=1.6) SCOPUS (Article in Press)
126.	D. B. Patil, M. K. Zope and <b>Devraj Singh</b>	2024	Dosimetric benefits in volumetric modulated arc therapy and intensity modulated radiotherapy in the treatment of cervical cancer	<b>MAPAN: Journal of Metrology Society of India</b> Vol. , No. , pp. - , (IF=1.0)=SCOPUS (Accepted for publication)
127.	A. Singh, J. Bala, S. P. Singh and <b>Devraj Singh</b>	2024	The mechanical, thermophysical and ultrasonic properties of scandium nitride in B1 and B2 phases	<b>Vietnam Journal of Science and Technology</b> Vol., No., pp., SCOPUS (Accepted for publication)

#### B. Book chapters

S.No	Author(s)	Year	Title of the chapter	Name of the book and	Publisher
1.	S. Tripathi, R. Agarwal, R. Vashisth and <b>Devraj Singh</b>	2020	Diameter dependent ultrasonic investigation of SiC nanowires	Innovative Applications of Nanowires for Circuit Design	IGI Global, Hershey PA, USA
2.	V. Bhalla and <b>Devraj Singh</b>	2023	Mechanical and thermo-physical properties of rare-earth materials, pp. 809-841 <a href="https://doi.org/10.1007/978-981-19-1550-5_40-1">https://doi.org/10.1007/978-981-19-1550-5_40-1</a>	Handbook of Metrology and Applications: Section 5: Industrial Metrology: Opportunities and Challenges (D. K. Aswal, S. Yadav, T. Takatsuji P. Rachakonda, H. Kumar (eds))	Springer, Singapore
3.	S. Tripathi, <b>Devraj Singh</b> , R. K. Saluja and R. Vashisth and	2024	Evaluation of Elastic, mechanical and thermophysical properties of nanostructured aluminides for aviation industries	Recent Advances in Aerospace Engineering MRAE 2023. Lecture Notes in Mechanical Engineering	Springer, Singapore

#### C. Papers published in conference proceedings

S.No.	Author(s)	Year	Title of the Paper	Name and place of conference
1.	R.R.Yadav and <b>Devraj Singh</b>	2000	Ultrasonic characterization in intermetallics	15 <sup>th</sup> World Conference on Nondestructive Testing, Roma, 15-21 October
2.	<b>Devraj Singh</b> and R.R.Yadav	2006	Ultrasonic studies of terbium chalcogenides	15 <sup>th</sup> National Symposium on Ultrasonics, University of Allahabad, 1-3 Nov.

3.	P.K.Yadawa, <b>Devraj Singh</b> , and S.K.Sahu	2009	Ultrasonic properties of hexagonal nanocrystalline ZnO and BeO	Eighteenth National Symposium on Ultrasonics (NSU-XVIII), VIT University, Vellore, Dec. 21-23, pp. 189-194
4.	<b>Devraj Singh</b> , P.K.Yadawa, R.S.Singh and S.K.Sahu	2010	Ultrasonic wave propagation in refractory materials, pp.182-188	National Symposium on Acoustics (NSA-2010), Govt. College, Rishikesh, 12-14 Dec. ( <a href="http://www.nsa2010.gpgcrishikesh.com">www.nsa2010.gpgcrishikesh.com</a> )
5.	P.K.Yadawa and <b>Devraj Singh</b>	2010	Ultrasonic wave propagation in II-IV hexagonal semiconductor compounds, pp.189-200	National Symposium on Acoustics (NSA-2010), Govt. College, Rishikesh, 12-14 Dec. ( <a href="http://www.nsa2010.gpgcrishikesh.com">www.nsa2010.gpgcrishikesh.com</a> )
6.	P.K.Yadawa and <b>Devraj Singh</b>	2010	Ultrasonic behavior of velocities and higher order elastic constants in Zener alloys, p.112	The 20 <sup>th</sup> International Congress on Acoustics (ICA-2010), Sydney, Australia, Aug. 23-27 ( <a href="http://www.acoustics.asn.au/conference_proceedings/ICA2010/cdrom.../p112.pdf">www.acoustics.asn.au/conference_proceedings/ICA2010/cdrom.../p112.pdf</a> )
7.	C. Tripathy, <b>Devraj Singh</b> , R. Paikaray	2015	Temperature Dependent Elastic and Ultrasonic Properties of Superhard Metal and its Carbide and Nitride: Os, OsC, and OsN	Proceedings of International Symposium on Ultrasonics (ISU-2015) at RTM Nagpur University, Nagpur during 22-24 January, 2015
8.	V. Bhalla, <b>Devraj Singh</b> , A. Mathur, Meher Wan, P.K. Dhawan, A.K. Jaiswal and R.R. Yadav	2016	Experimental investigation on the thermal conductivity and ultrasonic velocity of propylene glycol based TiO <sub>2</sub> nanofluids	19 <sup>th</sup> World Conference on Nondestructive Testing, Internationales Congress Center München Messegelände – 81823 Munich – Germany, 13-17 June
9.	S. Tripathi, R. Agarwal, R.Vashisth and <b>Devraj Singh</b>	2020	Deflection analysis of capacitive micromachined ultrasonic transducer with InP nanowires doi: <a href="https://doi.org/10.1109/SPIN48934.2020.9070881">10.1109/SPIN48934.2020.9070881</a>	IEEE Xplore: 2020 7th International Conference on Signal Processing and Integrated Networks (SPIN), Amity University, Noida: 27-28 Feb. 2020, , pp. 355-358, Published: 20 April 2020

#### D. Attended symposium, but not presented paper

S.No	Year	Name of Sympoium	Place
1.	2000	The National Academy of Sciences, India; 70 <sup>th</sup> Annual Session (3 to 6 November)	University of Allahabad, Allahabad

#### E.Papers presented in symposia

S.No	Year	Title	Name of Symposium	Place
1.	2001	Ultrasonic attenuation in gadolinium monpnictides	National Symposium on Acoustics, 18-20 October	Vellore Institute of Technology, <b>Vellore (TN)</b>
2.	2002	Acoustical investigations on plutonium monochalcogenides	National Symposium on Acoustics, 22-24 October	Aligarh Muslim University, <b>Aligarh (U.P.)</b>
3.	2002	Effect of composition on ultrasonic attenuation in metallic alloys at room temperature	National Symposium on Acoustics, 22-24 October	Aligarh Muslim University, <b>Aligarh (U.P.)</b>
4.	2002	Ultrasonic evaluation in rare-earth metals	National Symposium on Acoustics, 22-24 October	Aligarh Muslim University, <b>Aligarh (U.P.)</b>
5.	2002	Application of Morse Potential to the ultrasonic attenuation in BCC metals	National Seminar on NDE, 5-7 December	Hotel Taj Connemara, <b>Chennai</b>
6.	2003	Acoustical properties of rare-earth monochalcogenides	National Symposium on Acoustics, 30 October-1 November	The Automotive Research Association of India, <b>Pune</b>



7.	2003	Low temperature study of metallic alloys	National Symposium on Ultrasonics, 3-5 November	Guru Nanak Dev University, <b>Amritsar</b> (Pb.)
8.	2004	Ultrasonic characterization of thulium monochalcogenides in the temperature range 100 to 300K	The National Academy of Sciences, India; 74 <sup>th</sup> Annual Session, 2 to 4 December	University of Rajasthan, Jaipur+ BISR, <b>Jaipur (RJ)</b>
9.	2004	Acoustic attenuation in scandium antimonides	The National Academy of Sciences, India; 74 <sup>th</sup> Annual Session, 2 to 4 December	University of Rajasthan, Jaipur+ BISR, <b>Jaipur(RJ)</b>
10.	2004	Ultrasonic wave propagation in some B2-structured intermetallics	7 <sup>th</sup> conference of International Academy of Physical Sciences (CONIAPS-VII), 21-23 December	University of Allahabad, <b>Allahabad</b>
11.	2005	Ultrasonic attenuation studies in some BCC structured intermetallics	National Symposium on Acoustics , 14–16 December	National Aerospace Laboratory, <b>Bangalore</b>
12.	2005	Acoustic wave propagation in chalcogenides of Tm	National Symposium on Acoustics (14–16 December)	National Aerospace Laboratory, <b>Bangalore</b>
13.	2005	Akhieser damping in refractory compounds	National Symposium on Acoustics(14–16December)	National Aerospace Laboratory, <b>Bangalore</b>
14.	2005	Low temperature ultrasonic study of metallic alloys	National Symposium on Acoustics (14–16 December)	National Aerospace Laboratory, <b>Bangalore</b>
15.	2006	Ultrasonic studies of terbium chalcogenides	National Symposium on Ultrasonics, 1-3 November	University of Allahabad, <b>Allahabad</b>
16.	2007	A computer program for Evaluation of Nonlinear Nondestructive Testing Properties of Lanthanum Monochalcogenides	National Seminar on Latest Developments in Computer Technology ( 4-5 February)	Iswar Saran Degree College of University of <b>Allahabad</b> , Allahabad
17.	2007	Attenuation of ultrasonic waves in V, Nb and Ta at low temperatures	National Conference on Scientific Application of Mathematics (NACSAM-2007) (26-27 Dec.2007)	V.S.Mehta College of Science, Bharwari, <b>Kausambhi, U.P.</b>
18.	2010	Synthesis and ultrasonic characterization of ZnO nanofluid	National Conference on Nanotechnology for Sustainable Development (NANO, 2010) (Dec. 9-10, 2010)	Kulbhaskar Ashram PG College, <b>Allahabad</b>
19.	2011	Crystal Anharmonicity in Strontium Monochalcogenides	National Conference on “Emerging Trends of Research in Materials Science” (Nov. 12-13, 2011)	Swami Keshvanand Institute of Technology, Management and Gramothan+ University of <b>Jaipur</b>
20.	2011	Ultrasonic Study of Rare Earth Materials for Engineering Applications <b>(Invited)</b>	National Symposium on Acoustics (NSA-2011) Nov. 17-19, 2011	Bundelkhand University, Jhansi
21.	2011	How the ultrasonic parameters are so sensitive to magnetic fields in case of CeAs	National Conference on “Recent Trends in Synthesis and Applications of Advanced Materials” Dec. 5-6, 2011	Maharaja Agrasen Institute of Technology, Sector 22, <b>Rohini</b> , New Delhi
22.	2012	Elastic and Ultrasonic Properties of Xbi (X: B, Cm and U)	International Conference on Global Trends in Pure & Applied Chemical Sciences, 3-4 March,12	Hotel Inder Residency, <b>Udaipur</b> , Rajasthan
23.	2012	Ultrasonic wave propagation in bifluorides XF <sub>2</sub> (X: Ca, Sr, Cd and Ba)	National Symposium on Ultrasonics (30-31 October)	National Physical Laboratory, <b>New Delhi</b>
24.	2013	Crucial role of NDT in present scenario	Annual Convention of IAPT, 15 April, 2013	RC-1 of IAPT at <b>Bal Bhawan</b> , New Delhi
25.	2013	Sensitivity of ultrasonic properties to the magnetic,	International conference on Recent Trend & Devices	Amity Institute of Applied Sciences, Amity University Uttar-Pradesh, <b>Noida</b>

		electrical and thermal parameters	(ICRTMD-2013) , 30-31 October, 2013	
26	2014	Materials Characterization by Ultrasonics <b>(Invited)</b>	UGC Sponsored National Conference on Materials Characterization and Their Applications, 6 <sup>th</sup> Feb., 2014	Anand Niketan College, <b>Anandwan</b> -Warora, Chandrapur (Maharashtra)
27	2014	Mechanical and thermal properties of rare-earth monoarsenides: An ultrasonic study	21 <sup>st</sup> National Conference on Liquid Crystals; 10-12 November	V.S.S.D College, CSJM University, <b>Kanpur</b> , U.P.
28	2014	Temperature dependent elastic and ultrasonic properties of silver halides <b>(Invited)</b>	UGC Sponsored National Conference on Future Perspectives of Science & Technology in Society and Governance (FPSTSG-2014) 29-30 November, 2014	SSV College, <b>Hapur</b> , U.P.
29.	2014	Tap Mapan kee Upyogita (Importance of Temperature Measurement) <b>(Invited)</b>	Rashtriya Sangoshthi: Mapiki-2014 8-9 December, 2014	National Physical Laboratory, <b>New Delhi</b>
30.	2015	Role of Ultrasonic NDE for the characterisation of materials at different physical conditions <b>(Invited)</b>	International Symposium on Ultrasonics (ISU-2015) 22-24 January, 2015	RTM Nagpur University, <b>Nagpur</b>
31.	2015	Mechanical and thermal properties of single crystalline materials <b>(Invited)</b>	National Conference on Novel Synthesis of Advanced Materials and Their Applications (NSAMA-2015) February 16, 2015	Arts, Commerce & Science College, Maregaon (Road), <b>Yavatmal</b> , Maharashtra
32.	2015	Effect of different physical conditions on materials' ultrasonic NDE for the advanced applications	National Seminar on Recent Advances in Physical Sciences February 28, 2015	Udai Pratap (Autonomous) College, <b>Varanasi</b>
33.	2015	Ultrasonic non-destructive testing characterization of rare-earth materials <b>(Invited)</b>	National Conference on Recent Advances in Materials & Field Theory (NCRAMFT-2K15) December 28-29, 2015	Bhagwan Parshuram Institute of Technology, Rohini, <b>Delhi</b>
34.	2016	Role of Mechanical and Thermophysical Properties for Rare-earth Materials <b>(Invited)</b>	National Conference on Role of Science and Technology in Socio-economic Development, Feb. 28-29, 2016	Dr. B. R. Ambedkar Govt. Degree College, <b>Mainpuri</b> , U.P.
35.	2017	Behaviour of mechanical and ultrasonic properties of rare-earth materials <b>(Invited)</b>	National Conference on Recent Advances in Materials Science and Nano-Technology (RAMST-2017) on 21 April 2017	Amity University, Manesar, <b>Gurgaon</b>
36.	2017	Elastic, ultrasonic and thermophysical properties of materials for advanced applications <b>(Invited)</b>	National Symposium on Advances in Ultrasonics and Materials Research 8 <sup>th</sup> to 10 <sup>th</sup> November 2017	Central University Himanchal Pradesh, <b>Dharamshala</b>
37.	2018	Advanced Materials: Mechanical and Thermophysical Properties <b>(Invited)</b>	National Seminar on Environmental Hazards and Their Management 8 <sup>th</sup> December, 2018	Gramarishi Pt. Ram Kumar Pandey Gramodaya Ashram P. G. College, Beersinghpur, Saya, <b>Ambedkar Nagar</b> , U.P.
38.	2019	Ultrasonic studies of the nonlinear behavior of solid materials: a brief review <b>(Invited)</b>	Internal Conference of Ultrasonics and Materials Science for Advanced Applications 16 <sup>th</sup> to 18 <sup>th</sup> November 2019	VBS Purvanchal University, <b>Jaunpur</b> , U.P.
39.	2020	Theoretical Investigations of Engineering Materials for their Potential Applications	International Conference on Advances in Physical, Chemical & Mathematical Sciences	Rashtrasant Tukadoji Maharaj Nagpur University, <b>Nagpur</b>

		<b>(Invited)</b>	13-16 February, 2020	
40.	2020	Perspectives and Prospectives of Ultrasonics <b>(Invited)</b>	e-Lecture series on Recent Advances in Sciences & Technology (April 20, 2020 –May 3, 2020) on 20/04/2020	Prof. Rajendra Singh (Rajju Bhaiya) Institute of Physical Sciences for Study & Research, VBS Purvanchal University, <b>Jaunpur</b>
41.	2021	Role of Ultrasound for Materials Characterisation <b>(Invited)</b>	International e- Conference on Recent Advances in Material Science and Nanotechnology (RAMAN-2021) during February 7-9, 2021 on 09/02/2021	Art, Commerce and Science College, Maregaon Road, <b>Yavatmal, Maharashtra</b>
42.	2021	Mechanical and Thermophysical Properties of Advanced Materials <b>(Invited)</b>	Virtual Online Meeting on the National Symposium on Acoustics (NSA 2020-21) during 22 - 23 March 2021 on 23 <sup>rd</sup> March, 2021	CSIR-National Physical Laboratory, Dr. K. S. Krishnan Road, <b>New Delhi</b> 110012, India
43.	2022	Elastic, Mechanical and Thermal Properties of Rare-Earth Materials by Ultrasonic Analysis <b>(Invited)</b>	International e- Conference on Recent Advances in Material Science and Nanotechnology (RAMAN-2022) during May 12-14, 2022 on 14/05/2022	G.S. Tompe Arts, Commerce & Science College, Chandur Bazar, Amravati, Maharashtra
44.	2023	Mechanical, thermo-physical and ultrasonic properties of condensed materials <b>(Invited)</b>	Virtual Online Meeting on International Faculty Development Programme on Advanced Functional Materials: Energy, Environment & Sustainable Development during 28-02-2023 -09-03-2023 on 06-03-2023	Department of Physics, SRM TRP Engineering College, Tiruchirapalli in Association with Science Club.
45.	2024	Evaluation of Uncertainty Associated with Measurements <b>(Expert talk)</b>	National Workshop/Seminar on “Evaluation of Uncertainty Associated with Measurements” on 06 January, 2024	Regional Reference Standard Laboratory, Ahmedabad
46.	2024	Tailoring of Elastic, Mechanical, Thermophysical and Ultrasonic Properties of Condensed Materials <b>(Expert Talk)</b>	A One -day National Conference on Exploring the Frontier of Smart Materials (NCEFSM-2024) on 15 <sup>th</sup> March, 2024	Marian Star Centre, department of Physics, St Mary's College (Autonomous), Thoothikudi-628001, Tamil Nadu
47.	2024	Ultrasonic Interaction with Microstructural Defects in Condensed Materials' <b>(Invited Talk)</b>	International Conference on Material Physics and Electronics for Sustainable Development (ICMPE-2024) 01-02 July, 2024	Government Vidharbha Institute of Science and Humanities, Amravati, Maharashtra

#### F. Submitted Papers in Referred Journals

S.No.	Authors	Year	Title	Complete reference of journal
1.	A.K. Maddhesiya, J. Bala, S.P. Singh, <b>Devraj Singh</b> , P.S. Yadav and R.R. Yadav	2024	Tailoring mechanical, thermophysical and ultrasonic properties of the B2 structured scandium based intermetallics ScM (M: Ni, Cu, Pt, Hg)	Proceedings of the National Academy of Sciences, India Section A: Physical Sciences (Springer)
2.	K. F. Z. Ezzine, F. Litimein, F. Chiker, N. Baki, H. Khachai, R. Khenata, Y. A. Khachai, <b>Devraj Singh</b> , A. Bouhamaddou, S. Bin-Omran and A. Yakoubi	2024	Exploring a new perovskite chalcogenide compound LaScSe3: a promising material for optoelectronic and thermoelectric applications	Materials Science and Engineering B (Elsevier)
3.	R. Kumar and <b>Devraj Singh</b> , R. Khenata, S. P. Singh, S. Bin-Omran and A. Boumaza	2024	Variation of elastic, thermophysical and acoustic features with temperatures and directions in thallium mononictides	Bulletin of Materials Science (Springer)
4.	Y. Saksak, R. Moussa, R. Khenata, H. Meradji, <b>Devraj Singh</b> , A. Bouhemadou, S.	2024	Beryllium dopant atom influence on the structural, electronic, optical and	Chemical Physics (Elsevier)

	Bin-Omran, S. Ugur, G. Ugur		thermodynamic features of the zinc blende structured $\text{Be}_x\text{Mg}_{1-x}\text{O}$ ternary alloys by DFT	
5.	H. Meradji, Y. Megdoud, L. Tairi, R. Meneceur, S.Ghemid, S. Uger, <b>Devraj Singh</b> , R. Khenata	2024	Theoretical investigation of the physical features of ternary (emphletite) $\text{CuBiS}_2$ and (chalcostibite) $\text{CuSbS}_2$ : photovoltaic applications	Russian Journal of Physical Chemistry A
6.	J. Chauhan, <b>Devraj Singh</b> , R. Khenata, H. Meradji and S. Bin-Omran, A.K. Maddheshiya	2024	Temperature-Dependent Elastic, Mechanical, Thermal and Acoustic Behaviour in Alkaline Earth Semiconductors	Zeitschrift für Naturforschung A (DeGruyter)
7.	C. Bourahla, F. Chiker, M. Harmel, H. Khachai, R. Khenata, <b>Devraj Singh</b> , A. Bouhemadou, H. R. Jappor, S. Bin-Omran	2024	Insight into the structural, optoelectronic, optical coating, thermodynamic and transport properties of kesterite-quaternary chalcogenides $\text{Ag}_2\text{InGaX}_4$ (X=S, Se, Te) as hybrid PV-TE systems	Computational and Theoretical Chemistry (Elsevier)
8.	D. Patil, M. Zope, R. Raj, R. Madhawi, A. Kumar, S.Devi, D. Sinha, R. Singh and <b>Devraj Singh</b>	2024	Anatomical Parameter-Driven VMAT Optimization in Left-Sided Breast Cancer: A Machine Learning Framework for Lung Dose Prediction	Physica Medica-European Journal of Medical Physics
9.	D. Patil, M. Zope, R. Raj, S. Ansari, R. Madhawi, A. Kumar, S.Devi, D. Sinha, R. Singh and <b>Devraj Singh</b>	2024	Analytical Study of Radiotherapy Techniques in Left-Sided Breast Irradiation Using Integrated Scoring and Risk Assessment Method	Journal of Radiotherapy in Practice (Cambridge University Press)
10.	B. Ouchene, H. Meradji, S. Ghemid, O. Drici, A. Boumaza, <b>Devraj Singh</b> , S. Bin-Omran and R. Khenata	2024	A computational first principle investigation on the structural, elastic, electronic and optical characteristics of the ternary alloys $\text{Sc}_x\text{Lu}_{1-x}\text{N}$	<b>Optik (Elsevier)</b>
11.	R. Kumar, <b>Devraj Singh</b> , S. Kaushik, R. Kaushik, R. Khenata and S. Bin-Omran	2004	Mechanical, thermal and ultrasonic investigation of CrC and MoC compounds	To be finalized
12.	P. Singh, A. Singh, Devraj Singh, R. Khenata, A.K. Maddheshiya	2004	Tailoring elastic, mechanical, thermal and ultrasonic properties of PbS and PbSe	To be finalized
13.	<b>Devraj Singh</b> , S. Bin-Omran and R. Khenata	2024	Samarium chalcogenides $\text{SmX}$ (X=S, Se, and Te) under pressure: The theoretical investigation of the phase transitions and structural, electronic, magnetic properties	To be finalized
14.	N. K. Singh and <b>Devraj Singh</b>	2024	Elastic and ultrasonic properties of magnesium monochalcogenides	Under preparation
15.	S. Tripathi, C. Tripathy, S. P. Singh, <b>Devraj Singh</b> and R. Paikaray	2024	Mechanical and thermophysical properties of CoN and NiN	Under preparation

### G. Published Books

S.No.	Authors	Year	Title	Name of the publisher
1.	<b>Devraj Singh</b>	2022	<b>Engineering Physics Vol.I-5<sup>th</sup> Edn.</b> (For GGSIP University, Delhi) ISBN: 9788177000191	<b>Dhanpat Rai &amp; Co. Pvt. Ltd.,</b> New Delhi
	<b>Contents→</b>		1. Introduction to Thermodynamics, 2. Waves and Oscillations, 3. Introduction to Electromagnetic Theory, 4. Interference of Light Waves, 5. Diffraction of Light waves, 6. Polarisation of Light Waves, 7. The Special Theory of Relativity, 8. Lasers Fundamentals, 9. Experiments	
2.	<b>Devraj Singh</b>	2022	<b>Engineering Physics, Vol.II-6<sup>th</sup> Edn</b> (For GGSIP University, Delhi) ISBN: 9788177000207	<b>Dhanpat Rai &amp; Co. Pvt. Ltd.,</b> New Delhi
	<b>Contents→</b>		1. Wave-Particle Duality, Matter Waves & Uncertainty Principle, 2. Modern Quantum Mechanics, 3. Statistical Mechanics, 4. Crystal Structure, 5. Crystal Planes, X-Rays Diffraction and Defects in Solids, 6. Band Theory of Solids and 7. Experiments	
3.	<b>Devraj Singh</b>	2011	<b>Fundamentals of Engineering Physics, Vol-I-2<sup>nd</sup> Edn</b> (For Haryana)	<b>Dhanpat Rai &amp; Co. Pvt. Ltd.,</b> New Delhi
	<b>Contents→</b>		1. Interference of Light waves, 2. Diffraction of Light waves, 3. Polarization of Light waves, 4. Laser Fundamentals, 5. Fibre Optics, 6. Electromagnetic Theory, 7. Dielectric Materials, 8. The Special Theory of Relativity, 9. Nuclear Physics, 10.. Superconductivity	
4.	<b>Devraj Singh</b>	2012	<b>Fundamentals of Engineering Physics, Vol-II-3<sup>rd</sup> edn.</b> (For Haryana) ISBN: 9788177000566	<b>Dhanpat Rai &amp; Co. Pvt. Ltd.,</b> New Delhi
	<b>Contents→</b>		1. Crystal Physics, 2. Quantum Mechanics, 3. Free Electron Theory of Metals, 4. Band Theory of Solids, 5. Photoconductivity and Photovoltaics, 6. Magnetic Properties of Solid Materials, 7. Superconductivity, 8. Nanoscience and Nanotechnology, 9. Thermal Physics, 10. Semiconducting Materials and 11. Experiments.	

5.	Devraj Singh, R. B. Gautam, A. K. Shukla & P. K. Mishra	2014	<b>Applied Physics (For Amity University)- Second Edition</b> ISBN: 9789380386881	<b>University Science Press</b> (An imprint of Laxmi Publications Pvt. Ltd.) New Delhi (www.laxmipublications.com)
	Contents→	1. Physics of Vibrations, 2. Progressive Waves, 3. Ultrasonics, 4. Interference of Light, 5. Diffraction of Light, 6. Polarization of Light, 7. Vector Analysis, 8. Electromagnetism, 9. Special Theory of Relativity, 10. Wave Mechanics, 11. Atomic Physics, 12. Solid State Physics and 13. Experiments		
6.	Devraj Singh	2015	<b>Fundamentals of Optics-Second Edition</b> Print Book ISBN : 9788120351462 eBook ISBN : 9789354435799	<b>PHI Learning Pvt. Ltd, Delhi</b> (www.phindia.com)
	Contents→	1. Fermat's Principle, 2. Geometrical Optics, 3. Dispersion of Light, 4. Lens Aberration, 5. Optical Instruments, 6. Fundamentals of Vibrations, 7. Wave Motion, 8. Interference of Light Waves, 9. Diffraction of Light waves, 10. Polarization of Light Wave, 11. Electromagnetic Waves		
7.	Devraj Singh	2012	<b>Principles of Engineering Physics, Vol.-I-2<sup>nd</sup> Edition (For Rajasthan Technical University)</b> ISBN: 9788177000306	<b>Dhanpat Rai &amp; Co. Pvt. Ltd., New Delhi</b>
	Contents→	1. Interference of Light Waves, 2. Polarization of Light waves, 3. Diffraction of Light Waves, 4. The Elements of Materials Science, 5. The Special Theory of Relativity, 6. Experiments		
8.	Devraj Singh	2016	<b>Introductory Engineering Physics, 2<sup>nd</sup> Edition (For Punjab Technical University)</b> ISBN: 9788177000351	<b>Dhanpat Rai &amp; Co. Pvt. Ltd., New Delhi</b>
	Contents→	1. EM Waves and Dielectrics, 2. Magnetic Materials and Superconductivity, 3. Elements of Crystallography, 4. Laser Fundamentals, 5. Fibre Optics, 6. The Special Theory of Relativity, 7. Quantum Theory, 8. Nanophysics 9. Experiments		
9.	Devraj Singh	2013	<b>Principles of Engineering Physics, Vol.-II-Second Edition (For Rajasthan Technical University)</b> ISBN: 9788177000467	<b>Dhanpat Rai &amp; Co. Pvt. Ltd., New Delhi</b>
	Contents→	1. Quantum Mechanics, 2. Applications of Schrödinger's Wave Equation, 3. Free Electron Theory of Solids, 4. Coherence, 5. Fibre Optics, 6. Lasers Fundamentals, 7. Holography, 8. Nuclear Radiation Detectors, 9. Experiments		
10.	V. K. Singh, Devraj Singh and D. P. Singh	2013	<b>Mechanics and Wave Motion---</b> for B.Sc.I 1 <sup>st</sup> Edition (For U.P. State Universities) ISBN : 9789389520316	<b>I.K. International Pvt. Ltd, Delhi</b> (www.ikbooks.com)
	Contents→	1. Dynamics of Translational Motion, 2. Non-inertial Frames of Reference, 3. Dynamics of Rotational Motion, 4. Motion in Central Forces, 5. Mechanics of Non-Rigid Body-Elasticity, 6. Simple Harmonic Motion, 7. Damped Harmonic Motion, 8. Forced Harmonic Motion, 9. Wave Motion		
11.	Devraj Singh, J. Kumar and S. Tripathi	2014	<b>Circuit Fundamentals and Basic Electronics-----</b> for B.Sc.I 1 <sup>st</sup> Edition (For U.P. State Universities) ISBN : 9789389520583	<b>I.K. International Pvt. Ltd, Delhi</b> (www.ikbooks.com)
	Contents→	1. Varying Currents, 2. A.C. Bridges, 3. Electrical Networks, 4. Semiconductors and PN Junction Diode, 5. Rectifiers, Filters and Power Supplies, 6. Bipolar Junction Transistor, 7. Transistor Biasing and Circuits, 8. Amplifiers, 9. Multistage Transistor Amplifiers, 10. Oscillators, 11. Modulation and Demodulation, 12. Measuring Instruments, 13. Field Effect Transistor, 14. Digital Electronics and 15. Miscellaneous Topics		
12.	R.R. Yadav, Devraj Singh, S.P. Singh and D.K. Pandey	2014	<b>Modern Physics for Scientists and Engineers (A Textbook for Undergraduate Students)</b> Print Book ISBN : 9788120348585 eBook ISBN : 9789354438042	<b>PHI Learning Pvt. Ltd, Delhi</b> (www.phindia.com)
	Contents→	1. The Special Theory of Relativity, 2. Quantum Mechanics-I, 3. Quantum Mechanics-II, 4. Atomic Physics, 5. Molecular Physics, 6. Nuclear Physics, 7. Solid State Physics, 8. Superconductivity, 9. X-Rays, 10. Lasers, 11. Optical Fibers, 12. Motion of Charged Particles in E.M. Fields		
13.	B.P. Singh and Devraj Singh	2013	<b>Building Science: Lighting and Acoustics (for B.Arch.)</b> ISBN: 9788177000450	<b>Dhanpat Rai &amp; Co. Pvt. Ltd., New Delhi</b>
	Contents→	Part A: Lighting: 1. Basic Concepts of Lighting, 2. Daylighting, 3. Integrating Daylighting, 4. Lighting Sources, 5. Vocabulary of Artificial Lighting and Lighting Calculations, 6. Luminaires, 7. Light Design for Various Places in Buildings. Part B: Acoustics: 1. Acoustical Concepts, 2. Sound Absorption, 3. Noise Control, 4. Reverberation Sound, 5. Acoustical Design of Enclosed Spaces, 6. Interior Design and Sound Amplification System		
14.	Devraj Singh	2014	<b>Integrated Engineering Physics</b> 1 <sup>st</sup> Edition (For Gujarat Technological University)	<b>Dhanpat Rai &amp; Co. Pvt. Ltd., New Delhi</b>
	Contents→	1. Dielectrics, 2. Magnetic Materials, 3. Acoustics, 4. Ultrasonics, 5. Superconductivity, 6. Lasers, 7. Fiber Optics, 8. Nanophysics, 9. Advanced Engineering Materials and 10. Experiments		

15.	S. Tripathi, S. K. Pandey and Devraj Singh	2018	<b>Electronic Devices-2<sup>nd</sup> Edition</b> (For GGSIP University) ISBN: 9788177001099	Dhanpat Rai & Co. Pvt. Ltd., New Delhi
	Contents→	1. Physical Properties of Elements, 2. Theory of Semiconductors, 3. Semiconductor Diodes, 4. Special Diodes, 5. Bipolar Junction Transistors and Field Effect Transistors, 6. Fundamentals of Digital Electronics, 7. Boolean Algebra and Minimization Techniques, 8. Experiments		
16.	Devraj Singh and S. K. Pandey	2015	<b>Numerical Problems in Physics, Vol.-I</b> ISBN: 978-81-8487-447-1	<b>ALPHA SCIENCE</b> INTERNATIONAL LIMITED, Oxford, U.K./ Narosa Publishing House Pvt. Ltd., New Delhi
	Contents→	1. Optics, 2. Waves and Oscillations, 3. Electromagnetic Field Theory, 4. Solid State Physics and 5. Modern Physics		
17.	S. K. Pandey and Devraj Singh	2016	<b>Numerical Problems in Physics, Vol.-II</b> ISBN: 978-81-8487-450-1	<b>ALPHA SCIENCE</b> INTERNATIONAL LIMITED, Oxford, U.K./ Narosa Publishing House Pvt. Ltd., New Delhi
	Contents→	1. Mechanics, 2. Thermal Physics, 3. Circuit Fundamentals, 4. Electronics and 5. Spectroscopy		
18.	Devraj Singh, G. Mishra and R. R. Yadav	2016	<b>Thermal Physics: Kinetic Theory and Thermodynamics</b> ISBN: 978-81-8487-457-0	<b>ALPHA SCIENCE</b> INTERNATIONAL LIMITED, Oxford, U.K./ Narosa Publishing House Pvt. Ltd., New Delhi
	Contents→	1. Kinetic Theory of Gases: Ideal Gas, 2. Real Gases, 3. The Laws of Thermodynamics – I, 4. The Laws of Thermodynamics – II, 5. Thermodynamic Relations and Their Applications, 6. Liquefaction of Gases, 7. Mean Free Path and Transport Phenomena, 8. Conduction of Heat and 9. Radiation		
19.	Devraj Singh	2015	<b>Applied Optics</b> Print Book ISBN : 9788120351400 eBook ISBN : 9789354435713	PHI Learning Pvt. Ltd, Delhi (www.phindia.com)
	Contents→	1. Lasers, 2. Fibre Optics, 3. Holography, 4. The Special Theory of Relativity, 5. The Particle Nature of Radiations, 6. Photoconductivity and Photovoltaics		
20.	Devraj Singh	2015	<b>A Textbook of Engineering Physics</b> (For Kerala Tech. University) ISBN: 9788177001693	Dhanpat Rai & Co. Pvt. Ltd., New Delhi
	Contents→	1. Harmonic Oscillations, 2. Waves, 3. Interference of Light Waves, 4. Diffraction of Light Waves, 5. Polarization of Light Waves, 6. Superconductivity, 7. Quantum Mechanics, 8. Statistical Mechanics, 9. Acoustics, 10. Ultrasonics, 11. Lasers, 12. Photonics, 13. Experiments.		
21.	J. Kumar, A. K. Tiwari, Devraj Singh	2017	<b>Electronic Devices &amp; Circuits</b> (For GGSIPU, Delhi) ISBN-13: 978-1-78332-272-5, ISBN: 9781783322725	<b>ALPHA SCIENCE</b> INTERNATIONAL LIMITED, Oxford, U.K./ Narosa Publishing House Pvt. Ltd., New Delhi
	Contents→	1. Physical Properties of Elements, 2. P-N Junction Diode, 3. Special Purpose Electronic Devices, 4. Rectifier, Filters and Power Supplies, 5. Bipolar Junction Transistors, 6. Transistor Biasing and Stabilization, 7. Hybrid Parameters and UJT, 8. Field Effect Transistors, 9. FET Amplifiers.		
22.	Devraj Singh and D. K. Singh	2018	<b>Foundation of Physics</b> (For SBTE, Jharkhand) ISBN: 9788177002331	Dhanpat Rai & Co. Pvt. Ltd., New Delhi
	Contents→	1. Units and Measurements, 2. Angular Motion, 3. Elasticity, 4. Surface Tension, 5. Viscosity, 6. Transmission of Heat and Expansion of Solids, 7. Sound, 8. Properties of Light, 9. Photo-electricity, 10. Lasers, 11. X-Rays, 12. Newton's Laws of Motion, 13. Work, Energy and Power, 14. Acoustics of Building, 15. Electric Field, 16. Electric Potential, 17. Fibre Optics, 18. Band Theory of Solids, 19. Nanotechnology, 20. Non-Conventional Sources of Energy and 21. Experiments		
Edited Book				
<b>Proceedings of National Conference on Novel Synthesis of Advanced Materials and Their Applications</b> (NSAMA-2015) ISBN: 978-81-930894-1-5			Editors: S. J. Dhoble O.P. Chimankar, <b>Devraj Singh</b> and Dr. N. R. Pawar	ISST, Ghaziabad, U.P.
<b>Ultrasonics and Materials Science for Advanced Technology</b> 2020 ISBN: 978-81-8487-703-8			Editors: Giridhar Mishra, Punit K. Dhawan Manish Kumar Gupta	Narosa Publishing House Pvt. Ltd., New Delhi

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(Prof. Devraj Singh)