Bio-Data

PROF. DEVRAJ SINGH

Permanent Address:

104, Home Green Apartments
Bamnoli, Dwarka Sector-28
New Delhi-110077

Correspondence Address:

B-1, Sangam Teachers Residential Complex, VBS Purvanchal University
Jaunpur-222003, U.P., India
Cell No.:+91-9810549461
E-mail: devraj2001@gmail.com



Date and place of Birth: 30/06/1974, Etawah, U.P., India.

Martial Status: Married

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: "**Study of ultrasonic attenuation in condensed materials**" under supervision of Prof. Raja Ram Yadav, Physics Department., A.U. **Barcode:**5010010155128	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
21st September, 2002-31st May, 2007

● Department of Applied Sciences (PHYSICS)
Amity School of Engineering and Technology,
Bijwasan, New Delhi-110 061, India
Lecturer
1st June, 2007-28th Dec., 2010

● Department of Applied Sciences (PHYSICS)
Amity Institute of Applied Sciences
Amity University Uttar Pradesh,
Noida-201313, India
Assistant Professor-III
1st August, 2018-31st 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
28th Dec, 2010-31st July, 2018

● Department of Physics
Prof. Rajendra Singh (Rajju Bhaiya) Institute of Physical Sciences for Study & Research,
VBS Purvanchal University, Jaunpur-222003
Professor
1st 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)1st 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 information 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. Dr. Raja Ram Yadav,
Former VC-VBSPU
Ex. Head of Department of Physics
University of Allahabad, Prayagraj, India
E-mail: rryadav1@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, Tel : +91-11-4709 1206

- Prof. Dr. Rabah Khenata
The Vice Rector of External Relations, Animation and Scientific Event
Head of LPQ3M-Laboratory,
B.P.305, Mascara University,
Mascara 29000, Algeria
E-mail: khenata_rabah@yahoo.fr

- 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
Tel. No.: +33(0)38720-3924

Publications: Papers in Journals**:162,** Papers in conference proceedings**: 09**; Books**:24,** Book chapters**: 02,**

D.Sc. Mentorship:

Mentored

S. No.	Name of D.Sc. student	Enrolnment No. and University	Topic of the thesis	Role as supervisor /Co-supervisor	Year of award
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	2025

Ph.D Guidance:

S. No.	Name of Ph.D. student	Enrolnment No. and University	Topic of the thesis	Role as supervisor/Co-supervisor	Year of award
GUIDED:					
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
8.	Dr. Anurag Singh	PU20/4440 Veer Bahadur Singh Purvanchal University, Jaunpur	MECHANICAL AND THERMOPHYSICAL PROPERTIES OF ADVANCED MATERIALS FOR INDUSTRIAL APLLICATIONS	Supervisor	2026
9.	Dr. Jyotsana Chauhan	PU16/091850 Veer Bahadur Singh Purvanchal University, Jaunpur	STUDY OF ULTRASONIC, MECHANICAL AND THERMAL PROPERTIES OF SOLID MATERIALS AND NANOFLUIDS	Supervisor	2026
10.	Dr. Praveen Singh	PU22/286002 Veer Bahadur Singh Purvanchal University, Jaunpur	ULTRASONIC AND THERMOPHYSICAL INVESTIGATIONS ON CONDENSED MATERIALS	Supervisor	2026
11.	Dr. Rakesh Kumar	PU22/286126 Veer Bahadur Singh Purvanchal University, Jaunpur	ULTRASONIC TECHNIQUE AS A TOOL FOR MATERIALS CHARACTERIZATION	Supervisor	2026
GUIDING					
12.	Mr. Neeraj Kumar Singh	PU22/286107 Veer Bahadur Singh Purvanchal University, Jaunpur	STUDY OF ACOUSTICAL AND THERMOPHYSICAL PROPERTIES OF MATERIALS	Supervisor	
13.	Ms. Reena Yadav	PU16/127668 Veer Bahadur Singh Purvanchal University, Jaunpur	MECHANICAL AND THERMOACOUSTIC PROPERTIES OF CONDENSED MATERIALS	Supervisor	

Research Project:

1. 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]: **Principal Investigator**
2. Council of Science & Technology, U.P., 9, Nabiullah Road, Suraj Kund Park, Lucknow on the "Tailoring MXene Heterostructures via Surface Engineering for Next-Generation Hydrogen Evolution and SensingÂ Technologies" (PID-6261) [Rs. 1458000/- for three years]: Ref. No.: CST/E&T/D-1235 on August 23, 2025: **Co-Investigator**

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)
Measurements (Elsevier)
Water, Air, & Soil Pollution (Springer)
International Journal of Thermal Sciences (Elsevier)
Ultrasonics Sonochemistry (Elsevier)
Chemistry Inorganic Materials (Elsevier)
Next Materials (Elsevier)
Surfaces and Interfaces (Elsevier)
Radiation Physics and Chemistry (Elsevier)
Optics and Laser Technology (Elsevier)

Physics and Imaging in Radiation Oncology (Elsevier)
Dose-Response (Sage)
Journal of X-Ray Science and Technology (Sage)
Diseases & Research (BCIT, Hong Kong)
Indian Journal of Physics (Springer)
Radiation Effects and Defects in Solids
Journal of Materials Science: Materials in Electronics

- **Editor in**

Journal of the Acoustical Society of India
Journal of Pure & Applied Ultrasonics

- 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)***
- Associate Editor: MAPAN-Journal of Metrology Society of India (Springer) (2015-2025)
- 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 2nd 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 13th Western Pacific Acoustics Conference (WESPAC-2018) on 11-15 November, 2018 at the CSIR-National Physical Laboratory, New Delhi
- Session chair, SPIN – 2019: 6th International Conference on Signal Processing and Integrated Networks on 7th and 8th 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 13th January, 2020 to 7th June, 2023.
- **Director**, Dattopant Thengadi Law Institute, Veer Bahadur Singh Purvanchal University, Jaunpur, Uttar Pradesh, India from 7th July, 2023 to 22nd August, 2025.
- 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 **Devraj Singh**	2000	Temperature dependence of ultrasonic absorption in lanthanum monochalcogenides	**Journal of the Acoustical Society of India** Vol. 28, No.1-4, pp.191-198
2.	R. R. Yadav and **Devraj Singh**	2001	Behaviour of ultrasonic attenuation in intermetallics https://doi.org/10.1016/S0966-9795(00)00089-3	**Intermetallics** (Elsevier) Vol.9. No.3, pp.189-194 **(IF=4.3) = SCOPUS**
3.	R. R. Yadav and **Devraj Singh**	2001	Ultrasonic attenuation in lanthanum monochalcogenides https://doi.org/10.1143/JPSJ.70.1825	**Journal of the Physical Society of Japan**.Vol.70, No.6, pp.1825- 1832 **(IF= 1.579) = SCOPUS**
4.	S. K. Kor, G. Pandey and **Devraj Singh**	2001	Ultrasonic attenuation in semimetallic GdX single crystal (X=P,As,Sb and Bi) in the temperature range 10 to 300K.	**Indian Journal of Pure & Applied Physics** Vol.39, No. 8, pp.510-513 **(IF=0.7) = SCOPUS**
5.	R. R. Yadav and **Devraj Singh**	2001	Absorption at low temperatures	**Journal of the Acoustical Society of India** Vol. 29, No.1-2, pp.220-224
6.	**Devraj Singh**, R. R. Yadav and A. K. Tiwari	2002	Ultrasonic attenuation in semiconductors	**Indian Journal of Pure & Applied Physics** Vol.40, No.12, pp.845-849 **(IF=1.1) = SCOPUS**
7.	R. R. Yadav, **Devraj Singh** and A.K. Tiwari	2002	Ultrasonic evaluations in rare-earth metals	**Journal of the Acoustical Society of India** Vol. 30, No.1-2, pp.59 – 63
8.	S. K. Kor, R. R. Yadav and **Devraj Singh**	2003	Ultrasonic studies of CTAB in glycol https://doi.org/10.1080/10587250216176	**Molecular Crystals and Liquid Crystals** (Taylor & Francis) Vol.392, pp 75-81 **(IF= 0.7)=SCOPUS**
9.	S. K. Kor, G. Pandey and **Devraj Singh**	2003	Ultrasonic attenuation in lanthanum monochalcogenides from 5K to 500K	**Acta Acustica united with Acustica** Vol.89, pp.105-109 **(IF= 1.510)=SCOPUS**
10.	R. R. Yadav and **Devraj Singh**	2003	Effect of thermal conductivity on ultrasonic attenuation in praseodymium monochalcogenides https://doi.org/10.1134/1.1608987	**Acoustical Physics (Moscow)** Vol.49, No.5, pp 595-604 **(IF= 0.9) = SCOPUS**
11.	**Devraj Singh** and R. R. Yadav	2003	The thermal conductivity and ultrasonic absorption in dielectric crystals	**Journal of Pure & Applied Ultrasonics** Vol.25, No.3, pp. 82-87: **UGC**
12.	R. R. Yadav, A.K. Tiwari and **Devraj Singh**	2003	How the ultrasonic parameters of Ce-monopnictides are so sensitive to pressure	**Journal of the Acoustical Society of India** Vol. 31, No.1-4, pp.317-319
13.	S. K. Kor, **Devraj Singh** and A.K. Srivastava	2004	Ultrasonic attenuation in PrS, PrSe and PrTe	**Journal of the Acoustical Society of India** Vol. 32, No.1-2, pp.238-242
14.	**Devraj Singh** and R. R. Yadav	2004	Ultrasonic properties of SmS	**Journal of the Acoustical Society of India** Vol. 32, No.1-2, pp.279-281

15.	R. R. Yadav, P. Awasthi and **Devraj Singh**	2004	Ultrasonic attenuation in Fe_3O_4	**Journal of the Acoustical Society of India** Vol. 32, No.1-2, pp.282-286
16.	**Devraj Singh**, R. R. Yadav and A. K. Gupta	2004	Acoustical attenuation in scandium antimonide	**Journal of the Acoustical Society of India** Vol. 32, No.1-2, pp.252-254
17.	S. K. Kor**, Devraj Singh** and A. K. Srivastava	2005	Ultrasonic studies of thulium monochalcogenides	**Indian Journal of Pure & Applied Physics** Vol.43, No.5, pp.355-358 **(IF=0.7) = SCOPUS**
18.	R. R. Yadav, A. K. Gupta and **Devraj Singh**	2005	Ultrasonic attenuation in Ni-Pd alloys at high temperature phase https://doi.org/10.30970/jps.09.227	**Journal of Physical Studies** Vol.9, No.3, pp.227-232 **(IF=0.131) =SCOPUS**
19.	R. R. Yadav, A. K. Tiwari and **Devraj Singh**	2005	Effect of pressure on ultrasonic attenuation in Ce-monopnictides at low temperature https://doi.org/10.1007/s10853-005-4397-y	**Journal of Materials Science** Vol.40, No.19, pp.5319-5321 **(IF= 3.5) = SCOPUS**
20.	R. R. Yadav, P. Awasthi and **Devraj Singh**	2005	Akhieser damping in refractory compounds	**Journal of the Acoustical Society of India** Vol. 33, No. 1-4. Pp. 177-181
21.	D. K. Pandey, **Devraj Singh and** R.R. Yadav	2007	Ultrasonic wave propagation in IIIrd group nitrides https://doi.org/10.1016/j.apacoust.2006.04.004	**Applied Acoustics** (Elsevier) Vol. 68, No.7, pp.766-777 **(IF=3.4) = SCOPUS**
22.	D. K. Pandey, **Devraj Singh**, P. K. Yadawa and R. R. Yadav	2007	Ultrasonic velocity and absorption in lyotropic liquid crystal systems	**Macromolecule-**An Indian Journal Vol. 3, No.3, pp.75-78
23.	D. K. Pandey, **Devraj Singh,** R. R. Yadav and P. K. Yadawa	2007	Ultrasonic studies of CTAB/decanol/water systems	**Macromolecule-**An Indian Journal Vol. 3, No.3, pp.79-82
24.	**Devraj Singh** and D. K. Pandey	2008	Acoustic investigations on intermetallics	**Materials Science-**An Indian Journal Vol. 4, No.2, pp.67-71
25.	A. K. Yadav, R. R. Yadav, D. K. Pandey and **Devraj Singh**	2008	Ultrasonic study of fission products precipitated in the nuclear fuel https://doi.org/10.1016/j.matlet.2008.02.036	**Materials Letters** (Elsevier**)** Vol.62, pp.3258-3261 **(IF=2.7) = SCOPUS**
26.	**Devraj Singh,** D. K. Pandey, P. K. Yadawa and A. K. Yadav	2009	Attenuation of ultrasonic waves in V, Nb and Ta at low temperatures https://doi.org/10.1016/j.cryogenics.2008.08.008	**Cryogenics** (Elsevier) Vol. 49, No.1, pp. 12-16 **(IF=1.8) = SCOPUS**
27.	**Devraj Singh** and D. K. Pandey	2009	Ultrasonic investigations in intermetallics https://doi.org/10.1007/s12043-009-0034-7	**Pramana-journal of Physics** (Springer)Vol. 72, No.2, pp. 389-398 **(IF=1.9) = SCOPUS**
28.	**Devraj Singh,** D. K. Pandey and P. K. Yadawa	2009	Ultrasonic wave propagation in rare-earth monochalcogenides https://doi.org/10.2478/s11534-008-0130-1	**Central European Journal of Physics** ***[***Now ***Open Physics*****-**DE GRUYTER***]*** (Springer/Versita) Vol.7, pp. 198-205 **(IF=0.765) = SCOPUS**

29.	D. K. Pandey, **Devraj Singh** and P. K. Yadawa	2009	Ultrasonic study of osmium and ruthenium https://doi.org/10.1595/147106709X430927	**Platinum Metals Review** Vol. 53, pp. 91-97 **(IF= 2.704) SCOPUS**
30.	**Devraj Singh**	2009	Behaviour of acoustic attenuation in rare-earth chalcogenides https://doi.org/10.1016/j.matchemphys.2008.11.025	**Materials Chemistry & Physics** (Elsevier) Vol. 115, No. 1, pp. 65-68 **(IF=4.3) = SCOPUS**
31.	P. K. Yadawa, **Devraj Singh**, D. K. Pandey and R. R. Yadav	2009	Elastic and acoustic properties of heavy rare-earth metals https://doi.org/10.2174/1874837600902010061	**The Open Acoustic Journal**, Vol. 2, pp.61-67
32.	**Devraj Singh** and P. K. Yadawa	2010	Effect of platinum addition to coinage metals on their ultrasonic properties https://doi.org/10.1595/147106710X500602	**Platinum Metals Review** Vol. 52, pp.172-179 **(IF=2.704: SCOPUS)**
33.	**Devraj Singh**, P. K. Yadawa and S. K. Sahu	2010	Effect of electrical resistivity on ultrasonic attenuation in NpTe https://doi.org/10.1016/j.cryogenics.2010.04.005	**Cryogenics** (Elsevier) Vol. 50, pp.476-479 **(IF=1.8) = SCOPUS**
34.	P. K. Yadawa, D. K. Pandey, **Devraj Singh**, R. R. Yadav and G. Mishra	2010	Computations of ultrasonic parameters of lanthanide metals Ti, Zr and Hf https://doi.org/10.3906/fiz-0902-7	**Turkish Journal of Physics** Vol.34, pp. 23-31 **(IF=0.202) = SCOPUS**
35.	**Devraj Singh,** D. K. Pandey, D. K. Singh and R. R. Yadav	2011	Propagation of ultrasonic waves in neptunium monochalcogenides https://doi.org/10.1016/j.apacoust.2011.04.002	**Applied Acoustics** (Elsevier) Vol. 72, pp. 737-741 **(IF=3.4) = SCOPUS**
36.	G. Mishra, S. K. Verma, **Devraj Singh,** P.K. Yadawa and R.R. Yadav	2011	Synthesis and ultrasonic characterization of Cu/PVP nanoparticles-polymer suspension https://doi.org/10.4236/oja.2011	**Open Journal of Acoustics** (Scientific Research, USA) Vol.1, pp.9-14
37.	P. K. Yadawa, **Devraj Singh**, D.K. Pandey, G. Mishra and R.R. Yadav	2011	Acoustic wave propagation in nanocrystalline RuCo alloys https://doi.org/10.4236/ampc.2011.12003	**Advances in Materials Physics and Chemistry** Vol.1, pp.14-19
38.	**Devraj Singh**, Raj Kumar and D.K. Pandey	2011	Temperature and orientation dependence of ultrasonic parameters in americium monopnictides https://doi.org/10.4236/ampc.2011.12006	**Advances in Materials Physics and Chemistry** Vol.1, pp. 31-38
39.	J. Kumar, Kailash, S. K. Shrivastava, **Devraj Singh** and V. Kumar	2011	Ultrasonic attenuation in calcium oxide https://doi.org/10.4236/ampc.2011.12008	**Advances in Materials Physics and Chemistry** Vol.1, pp .44-49
40.	**Devraj Singh,** S. Tripathi**,** D. K. Pandey, A. K. Gupta, D.K. Singh and J. Kumar	2011	Ultrasonic wave propagation in semimetallic single crystals https://doi.org/10.1142/S0217984911027686	**Modern Physics Letters B** (World Scientific) Vol. 25, No. 31, pp.2377-2390 **(IF=1.8: SCOPUS)**

41.	A. K. Gupta, A. Gupta, **Devraj Singh** and S. Tripathi	2011	Sensitivity of nanostructured iron metal on ultrasonic properties https://doi.org/10.4236/ojmetal.2011.12005	**Open Journal of Metal**, Vol. 1, No.1, pp. 34-40
42.	R. Kumar, **Devraj Singh** and G. Mishra	2011	Ultrasonic wave propagation in californium monopnictides https://doi.org/10.4236/ojapps.2011.11001	**Open Journal of Applied Sciences** Vol. 1, No.1, pp. 1-7
43.	D. K. Singh, D. K. Pandey, R. R. Yadav and **Devraj Singh**	2012	A study of nanosized zinc oxide and its nanofluids https://doi.org/10.1007/s12043-012-0275-8	**Pramana**- journal of physics (Springer) Vol. 78, No. 5, pp. 759–766 **(IF=1.9) = SCOPUS**
44.	D. K. Singh, D. K. Pandey, R. R. Yadav and **Devraj Singh**	2012	Characterization of CrO_2- poly-vinyl pyrrolidone magnetic nanofluids https://doi.org/10.1016/j.jmmm.2012.05.020	**Journal of Magnetism and Magnetic Materials** (Elsevier) Vol. 324, No. 22, pp. 3662-3667 **(IF=2.5) = SCOPUS**
45.	R. Kumar, **Devraj Singh** and S. Tripathi	2012	Crystal anharmonicity in strontium monochalcogenides	**Asian Journal of Chemistry** Vol. 24, No. 12, pp. 5652–5654 **(IF=0.270) = SCOPUS**
46.	S. Kaushik, **Devraj Singh** and G. Mishra	2012	Elastic and ultrasonic studies XBi (X: B, Cm and U)	**Asian Journal of Chemistry** Vol. 24, No. 12, pp. 5655–5658 **(IF=0.270) =SCOPUS**
47.	D.K. Singh, D.K. Pandey, R.R. Yadav and **Devraj Singh**	2013	A study of ZnO nanoparticles and ZnO-EG nanofluids https://doi.org/10.1080/17458080.2011.602369	**Journal of Experimental Nanoscience** Vol. 8, No. 5, pp. 731–741 **(IF=2.8) = SCOPUS**
48.	G. Mishra, **Devraj Singh**, P. K. Yadawa, S. K. Verma, R. R. Yadav	2013	Study of copper/palladium nanoclusters using acoustic particle sizer https://doi.org/10.1595/147106713X667632	**Platinum Metals Review** Vol.57, No. 3, pp. 186–191 **(IF=2.704: SCOPUS)**
49.	V. Bhalla, R. Kumar, C. Tripathy and **Devraj Singh**	2013	Mechanical and thermal properties of praseodymium monopnictides: an ultrasonic study https://doi.org/10.1142/S0217979213501166	**International Journal of Modern Physics B (World Scientific)** Vol. 27, No. 22, 1350116 (28 pp.) **(IF=1.770: SCOPUS)**
50.	A.K. Yadav, **Devraj Singh**, V. Bhalla and S.T ripathi	2013	Temperature dependent elastic and ultrasonic properties of iron aluminide https://doi.org/10.13189/ujms.2013.010208	**Universal Journal of Materials Science** Vol. 1, No. 2, pp. 56-62
51.	A.K. Gupta, A. Gupta, S. Tripathi, V. Bhalla and **Devraj Singh**	2013	Ultrasonic properties of hexagonal closed packed metals https://doi.org/10.13189/ujms.2013.010209	**Universal Journal of Materials Science** Vol. 1, No. 2, pp. 63-68
52.	**Devraj Singh,** S. Kaushik, S. Tripathi, V. Bhalla and A. K. Gupta	2014	Temperature dependent elastic and ultrasonic properties of berkelium monopnictides https://doi.org/10.1007/s13369-013-0845-1	**The Arabian Journal for Science and Engineering** Vol. 39, No. 1, pp. 485-494 **(IF=2.6: SCOPUS)**
53.	**Devraj Singh**, V. Bhalla, S. Tripathi, V.	2014	Ultrasonic properties of plutonium monochalcogenides	**Universal Journal of Physics and Application**

	K. Singh and A.K. Gupta		https://doi.org/10.13189/ujpa.2014.020101	Vol. 2, No. 1, pp. 1-6
54.	D. K. Pandey, **Devraj Singh,** V. Bhalla, S. Tripathi and R. R. Yadav	2014	Temperature dependent elastic and ultrasonic properties of ytterbium monopnictides	**Indian Journal of Pure & Applied Physics** Vol.52, No.5, pp. 330-336 **(IF=0.7: SCOPUS)**
55.	S. Kaushik, V. Bhalla and **Devraj Singh**	2014	Temperature dependent elastic and ultrasonic properties of silver halides	**Journal of Pure and Applied Ultrasonics** Vol. 36, No. 4, pp. 85-90
56.	**Devraj Singh**, V. Bhalla, R. Kumar and S. Tripathi	2015	Behaviour of acoustical phonons in CeAs in low temperature region	**Indian Journal of Pure & Applied Physics** Vol. 53, No. 3, pp. 169-174 **(IF=0.7: SCOPUS)**
57.	Meher Wan, G. Mishra, **Devraj Singh**, R.R. Yadav and B. Joshi	2015	Temperature dependent heat transfer performance of multi-walled carbon nanotubes- based aqueous nanofluids at very low particle loadings https://doi.org/10.1595/205651315X688163	**Johnson Matthey Technology Review** Vol. 59, No. 3, pp. 199-206; **(IF= 2.3) = SCOPUS**
58.	V. Pandey, G. Mishra, M. Wan, **Devraj Singh**, A.K. Tiwari, R.R. Yadav and B. Mishra	2015	Characterization of Cu-PVA nanofluids: Ultrasonic and thermal properties	**Journal of Pure and Applied Ultrasonics** Vol. 37, No. 2-3, pp. 33-38
59.	V. Bhalla and **Devraj Singh**	2016	Anisotropic assessment of ultrasonic wave velocity and thermal conductivity in ErX (X: N, As) http://hdl.handle.net/123456789/33601	**Indian Journal of Pure & Applied Physics** Vol. 54, No. 1, pp. 42-48 **(IF=0.7: SCOPUS)**
60.	M. Wan, R.R. Yadav, **Devraj Singh**, M. S. Panday and V. Rajendran	2016	Temperature dependent ultrasonic and thermo-physical properties of polyaniline nanofibers reinforced epoxy composites https://doi.org/10.1016/j.compositesb.2015.10.011	**Composite B** (Elsevier) Vol. 87, 15 February, pp. 40-46 **(IF=12.7) = SCOPUS**
61.	V. Bhalla, **Devraj Singh** and S.K. Jain	2016	Mechanical and thermophysical properties of cerium monopnictides https://doi.org/10.1007/s10765-016-2038-0	**International Journal of Thermophysics** Vol. 37 (33), March, pp. 1-17 **(IF= 2.5) = SCOPUS**
62.	V. Bhalla, **Devraj Singh**, S.K. Jain and R. Kumar	2016	Ultrasonic attenuation in rare-earth monoarsenides https://doi.org/10.1007/s12043-015-1183-5	**Pramana-Journal of Physics,** Vol. 86, No. 6, pp 1355-1367 **(IF=1.9) = SCOPUS**
63.	V. Bhalla, **Devraj Singh,** G. Mishra and M. Wan	2016	Mechanical and thermophysical properties of europium monochalcogenides	**Journal of Pure & Applied Ultrasonics** Vol. 38, No. 1, pp. 23-27
64.	A. K. Jaiswal, M. Wan, S. Singh, D.K. Singh, R.R. Yadav, **Devraj Singh** and G. Mishra	2016	Experimental investigation of thermal conduction in copper-palladium nanofluids https://doi.org/10.1166/jon.2016.1243	**Journal of Nanofluids** Vol. 5, No. 4, pp. 496-501 **Scopus**
65.	**Devraj Singh,** S. Kaushik, S. K.	2016	Mechanical and thermo-physical properties of neptunium monopnictides	**VNU Journal of Science**: Mathematics-Physics Vol. 32, No. 2, pp. 43-53

	Pandey, G. Mishra, V. Bhalla			
66.	V. Bhalla, **Devraj Singh** and S.K. Jain	2016	Mechanical and thermo-physical properties of rare-earth monopnictides https://doi.org/10.1142/S2047684116500123	**International Journal of Computational Materials Science and Engineering** Vol. 5, No. 3, pp. 1650012 (14 pages) **I. F.= 1.4: Scopus**
67.	V. Bhalla, **Devraj Singh** and S.K. Jain	2016	Ultrasonic attenuation in terbium monophosphide	**Journal of Pure & Applied Ultrasonics** Vol. 38, No. 3, pp. 84-87
68.	C. Tripathy, **Devraj Singh** and R. Paikaray	2016	Elastic and ultrasonic properties of LaPn (Pn=N, P, As, Sb, Bi)	**Journal of Pure & Applied Ultrasonics** Vol. 38, No. 4, pp. 99-102
69.	A. Kumar, **Devraj Singh**, R. K. Thakur and R. Kumar	2017	Mechanical and thermo-physical properties of lutetium monochalcogenides	**Journal of Pure & Applied Ultrasonics** Vol. 39, No. 2, pp. 43-48
70.	**Devraj Singh**, G, Mishra, R. Kumar and R. R. Yadav	2017	Temperature dependence of elastic and ultrasonic properties of sodium borohydride https://doi.org/10.15625/0868-3166/27/2/9615	**Communications in Physics** Vol. 27, No. 2, pp. 151-164
71.	**Devraj Singh**, V. Bhalla, J. Bala and S. Wadhwa	2017	Ultrasonic investigations on polonides of Ba, Ca and Pb https://doi.org/10.1515/zna-2017-0217	**Zeitschrift für Naturforschung A** Vol. 72, No. 11, pp 977-983 **(IF=1.8) = SCOPUS**
72.	C. Tripathy, **Devraj Singh** and R. Paikaray	2018	Behaviour of elastic and ultrasonic properties of curium monopnictides https://doi.org/10.1139/cjp-2017-0491	**Canadian Journal of Physics** Vol. 96, No. 5, pp 513-518 **(IF= 1.1) = SCOPUS**
73.	**Devraj Singh**, A. Kumar, V. Bhalla and R. K. Thakur	2018	Mechanical and thermophysical properties of actinide monocarbides https://doi.org/10.1142/S0217984918502482	**Modern Physics Letters B** Vol. 32, No. 21, 1850248 (pp 1-9) **(IF= 1.8) = SCOPUS**
74.	A. Kumar, **Devraj Singh** and R. K. Thakur	2018	Ultrasonic attenuation in thorium monopnictides	**Journal of Pure & Applied Ultrasonics** Vol. 40, No. 3, pp. 84-87
75.	B. Jyoti, **Devraj Singh**, S. Kaushik, V. Bhalla, S. Wadhwa and D.K. Pandey	2018	Ultrasonic attenuation in yttrium monochalcogenides	**Journal of Pure & Applied Ultrasonics** Vol. 40, No. 4, pp. 93-99
76.	A. Khan, C. P. Yadav, D. K. Pandey, D. Singh and **Devraj Singh**	2019	Elastic and thermo-acoustic Study of YM Intermetallics	**Journal of Pure & Applied Ultrasonics** Vol. 41, No. 1, pp. 1 -8
77.	C. Kandpal, A. K. Singh, R. Dey, V. K. Singh and **Devraj Singh**	2019	Estimation of effective Debye temperature of multi component liquid mixtures at 298.15K	**Journal of Pure & Applied Ultrasonics** Vol. 41, No. 1, pp. 19 -23
78.	A. K. Verma, **Devraj Singh**, S. Singh and R. R. Yadav	2019	Surfactant free synthesis and experimental analysis of Mn-doped ZnO-glycerol nanofluids: an ultrasonic and thermal study https://doi.org/10.1007/s00339-019-2550-8	**Applied Physics A**: Materials Science and Processing, Vol.125, No. 4, pp. 253 (10 pp.) **IF= 2.5) = SCOPUS**

79.	**Devraj Singh**, C. Tripathy, R. Paikaray, A. Mathur and S. Wadhwa	2019	Behaviour of ultrasonic properties on SnAs, InTe and PbSb	**Engineering and Applied Sciences Research** (Thailand), Vol.46, No.2, pp. 98-105, **SCOPUS**
80.	S. Tripathi, R. Agarwal and **Devraj Singh**	2019	Elastic, mechanical and thermal properties of BeO nanowire	**Journal of Pure & Applied Ultrasonics** Vol. 41, No. 2, pp. 44-50
81.	S. Tripathi, R. Agarwal and **Devraj Singh**	2019	Size dependent elastic and thermophysical properties of Zinc oxide nanowires https://doi.org/10.1595/205651319X15514400132039	**Johnson Matthey Technology Review** Vol. 63, No. 3, pp.166 -176, **(IF= 2.3) = SCOPUS**
82.	S. Tripathi, R. Agarwal, **Devraj Singh**	2019	Nonlinear elastic, ultrasonic and thermophysical properties of lead telluride https://doi.org/10.1007/s10765-019-2539-8	**International Journal of Thermophysics** Vol. 40, No. 8, 78 (18pp.) **(IF= 2.5) = SCOPUS**
83.	C. P. Yadav, D. K. Pandey and **Devraj Singh**	2019	Ultrasonic study of Laves phase compounds $ScOs_2$ and Yos_2 https://doi.org/10.1007/s12648-019-01389-8	**Indian Journal of Physics,** Vol. 93, No. 9, pp.1147-1153 **(IF= 1.6) = SCOPUS**
84.	A. K. Verma, S. Kaushik, **Devraj Singh** and R. R. Yadav	2019	Elastic and thermal properties of carbides of U, Pu and Am https://doi.org/10.1016/j.jpcs.2019.05.006	**Journal of Physics Chemistry of Solids** Vol.133, pp. 21-27 **(IF=4.3) =SCOPUS**
85.	C. P. Yadav, D.K. Pandey and **Devraj Singh**	2019	Elastic and Ultrasonic Study of RM (R= Tb, Dy, Ho, Er, Tm; M=Zn, Cu) Compounds https://doi.org/10.1515/zna-2019-0041	**Zeitschrift für Naturforschung A** Vol.74, No. 12, pp. 1123-1130 **(IF=1.8) = SCOPUS**
86.	**Devraj Singh**, A. Kumar, R. K. Thakur, R. Kumar	2020	Elastic and ultrasonic properties of rare-earth monopnictides https://doi.org/10.1007/s40010-018-0529-z	**Proceedings of the National Academy of Sciences, India Section A: Physical Sciences** Vol. 90, No.1, pp.177-183 **(IF= 0.8) = SCOPUS**
87.	J. Bala, **Devraj Singh**, D. K. Pandey and C. P. Yadav	2020	Mechanical and Thermophysical Properties of ScM (M: Ru, Rh, Pd, Ag) Intermetallics https://doi.org/10.1007/s10765-020-02624-9	**International Journal of Thermophysics** Vol. 41, No. 4, 46 (13pp.) **(IF= 2.5) = SCOPUS**
88.	S. Tripathi, R. Agarwal, **Devraj Singh**	2020	Size dependent ultrasonic and thermophysical properties of indium phosphide nanowires https://doi.org/10.1515/zna-2019-0351	**Zeitschrift für Naturforschung A** Vol.75, No. 4, pp. 373-380 **(IF=1.8) = SCOPUS**
89.	M. Khanna, A. Mathur, A.K. Dubey, J. McLaughlin, I. Moirangthem, S. Wadhwa, **Devraj Singh**, R. Kumar	2020	Rapid removal of lead (II) ions from water using iron oxide–tea waste nanocomposite – a kinetic study https://doi.org/10.1049/iet-nbt.2019.0312	**IET Nanobiotechnology** Vol. 14, No. 4, pp. 275 – 280, **(IF= 3.8) = SCOPUS**
90.	J. Bala and **Devraj Singh**	2020	Elastic and ultrasonic properties of fermium monopnictides https://doi.org/10.14456/easr.2020.20	**Engineering and Applied Sciences Research** (Thailand), Vol. 47, No. 2, pp. 182-189

				SCOPUS
91.	J. Bala, **Devraj Singh** and A. K. Tiwari	2020	Ultrasonic attenuation in intermetallics HfX (X=Os, Ir and Pt)	**Journal of Pure & Applied Ultrasonics** Vol. 42, No. 2, pp. 46-51
92.	A. K. Gupta, S. Roy, S. Nagabhooshanam, S. Wadhwa, S. Aravindan, **Devraj Singh**, A. Mathur and R. Kumar	2020	Label-free electrochemical detection of dibenzofuran using MnO_2 nanofibres https://doi.org/10.1109/JSEN.2020.3002158	**IEEE Sensors Journal** Vol. 20, No. 21, pp. 12537-12542, **(IF=4.3) = SCOPUS**
93.	J. Bala, S. Roy, A. T. John, S. Wadhwa, A. Mathur, **Devraj Singh**, D. Devi, A. Tripathi	2020	Ion beam modified TiO_2 nanotubular bio-interface for electrochemical detection of L-tyrosine towards smart bandage application https://doi.org/10.1016/j.colsurfb.2020.111239	**Colloids and Surfaces B: Biointerfaces** Vol. 195, Nov., 111239 **(IF=5.4) = SCOPUS**
94.	B. Jyoti, S. P. Singh, M. Gupta, S. Tripathi, **Devraj Singh** and R. R. Yadav	2020	Investigation of zirconium nanowire by elastic, thermal and ultrasonic analysis https://doi.org/10.1515/zna-2020-0167	**Zeitschrift für Naturforschung A** Vol. 75, No. 12, pp. 1077-1084 **(IF=1.8) = SCOPUS**
95.	J. Bala, V. Bhalla, **Devraj Singh**, C. P. Yadav, D. K. Pandey	2020	Elastic and ultrasonic properties of cadmium oxide	**Journal of Pure and Applied Ultrasonics** Vol. 42, No. 3, pp. 78-80
96.	S. P. Singh, A. K. Verma, A. K. Jaiswal, **Devraj Singh** and R. R. Yadav	2021	Study of ultrasonic and thermal properties for heat transfer enhancement in Fe_2O_3 nanoparticles- ethylene glycol nanofluids https://doi.org/10.1007/s10765-021-02809-w	**International Journal of Thermophysics (Springer),** Vol. 42, Art. No. 60 (9 pp.) **(I.F.=2.5) SCOPUS**
97.	S. Tripathi, R. Agarwal, **Devraj Singh**	2021	Elastic mechanical and ultrasonic properties of nanostructured IIIrd group phosphides https://doi.org/10.1007/s12647-020-00412-2	**MAPAN: Journal of Metrology Society of India** Vol. 36, No.1, pp. 97-107, **(IF=1.0) = SCOPUS**
98.	S. Tripathi, R. Agarwal, R. Vashisth, **Devraj Singh**	2021	Capacitive micromachined ultrasonic transducers: Transmission evaluation with different membrane materials and dimensions: Semiconductor material utilization for CMUT for transduction and reception https://doi.org/10.1515/teme-2020-0073	**tm - Technisches Messen** Vol. 88, no. 4, pp. 251-259 **(I.F.=0.7) SCOPUS**
99.	B. Jyoti, S. Tripathi, S.P. Singh, D.K. Singh and **Devraj Singh**	2021	Elastic, mechanical, thermo-physical and ultrasonic investigation in platinum carbide https://doi.org/10.1016/j.mtcomm.2021.102189	**Materials Today Communications** (Elsevier) Vol. 37, June, Art. No. 102189 (6 pp.) **(I.F.=3.7) = SCOPUS**
100.	R. P. Singh, S. Yadav, G. Mishra, **Devraj Singh**	2021	Pressure dependent ultrasonic properties of hcp hafnium metal https://doi.org/10.1515/zna-2021-0013	**Zeitschrift für Naturforschung A** Vol. 76, No. 6, pp .549-557 **(IF=1.8) = SCOPUS**

101.	M. Gupta, **Devraj Singh**, S. P. Singh, A. Mathur, S. Wadhwa, A. K. Jaiswal, D. K. Singh and R. R. Yadav	2021	Ultrasonic and thermophysical studies of ethylene glycol nanofluids containing TiO_2nanoparticles and their heat transfer enhancements https://doi.org/10.1595/205651320X15940360546454	**Johnson Matthey Technology Review** Vol. 65, No. 3, pp. 418 -430, **(IF=2.3) = SCOPUS**
102.	A. K. Verma, N. Yadav, S.P. Singh, K. K. Dey, **Devraj Singh**, R. R. Yadav	2021	Study of ultrasonic attenuation and thermal conduction in bimetallic Au/Pt nanofluids https://doi.org/10.1595/205651321X16038755164270	**Johnson Matthey Technology Review** Vol. 65, No. 4, pp. 556–567, **(IF=2.3) = SCOPUS**
103.	B. Jyoti, S.P. Singh, M. Gupta, S. Tripathi, A. K. Verma, **Devraj Singh,** R. R. Yadav	2021	Ultrasonic and thermophysical properties of cobalt nanowires https://doi.org/10.1134/S1063771021330022	**Acoustical Physics** Vol. 67, No. 6, pp. 584-589, **(IF=0.9) = SCOPUS**
104.	A.K. Tiwari, G. Mishra, P.K. Dhawan, **Devraj Singh**	2021	Ultrasonic characterization of intermetallic compounds	**Journal of Pure and Applied Ultrasonics,** Vol. 43, No. 3-4, pp. 56-60,
105.	J. Bala, S. P. Singh, A. K. Verma, D.K. Singh, **Devraj Singh**	2022	Elastic, mechanical and ultrasonic studies of boron monopnictides in two different Structural Phases https://doi.org/10.1007/s12648-021-02278-9	**Indian Journal of Physics,** Vol. 96, No. 11, pp. 3191-3200 **(IF= 1.6) = SCOPUS**
106.	S. Yadav. R.P. Singh, G. Mishra, **Devraj Singh**	2022	Mechanical and thermophysical properties of 4d-transition mononitrides https://doi.org/10.1515/zna-2021-0332	**Zeitschrift für Naturforschung A** vol. 77, no. 7, 2022, pp. 701-713. **(IF=1.8) = SCOPUS**
107.	G. Singh, S. P. Singh, **Devraj Singh**, A. K. Verma, D. K. Pandey, and R. R. Yadav	2022	Elastic, mechanical, thermophysical, ultrasonic properties of divalent metal fluorides XF_2(X = Ca, Sr, Cd, and Ba) https://doi.org/10.1007/s12043-022-02318-x	**Pramana-Journal of Physics,** Vol. 96, No. 2, pp. 97 **(IF=1.9) = SCOPUS**
108.	R. P. Singh, S. Yadav, **Devraj Singh**, G. Mishra	2022	Theoretical approach to investigate temperature dependent ultrasonic and thermophysical properties of Ti-Zr-Hf ternary alloy https://doi.org/10.22214/ijraset.2022.47382	**International Journal for Research in Applied Science & Engineering Technology** (IJRASET), Vol. 10, No. 11, pp. 1-6
109.	S. Yadav, R. P. Singh, **Devraj Singh** and G. Mishra	2022	Investigation of temperature dependent mechanical, thermophysical and ultrasonic properties of ScZrHf ternary alloy	**Journal of Pure and Applied Ultrasonics** Vol. 44, No. 3-4, pp. 79-85
110.	A. K. Maddheshiya, N. Yadav, S. P. Singh, **Devraj Singh**, P. S. Yadav and R.R. Yadav	2023	Mechanical, Elastic and Microstructural Investigations on HCP Phase High-Entropy Alloys https://doi.org/10.1007/s12647-023-00674-6	**MAPAN: Journal of Metrology Society of India** Vol. 38, No.4, pp.1019-1026 **(IF=1.0) = SCOPUS**

111.	A. Singh and **Devraj Singh**	2023	Investigation of alkali halide crystals AX (A = Li, Na, K; X = F, Cl, Br) by elastic, mechanical and ultrasonic analysis https://doi.org/10.1515/zna-2023-0138	**Zeitschrift für Naturforschung A** vol.78, No.10, pp.947-958. **(IF=1.8) SCOPUS**
112.	A.K. Maddheshiya, S.P. Singh, **Devraj Singh**, 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≤15%) https://doi.org/10.1515/zna-2023-0160	**Zeitschrift für Naturforschung A** vol. 78 no.11, pp.1051-1059. **(IF=1.8) SCOPUS**
113.	G. Mishra, A.K. Tiwari, S. Yadav and **Devraj Singh**	2023	Temperature dependent mechanical and thermophysical properties of B1 phase Ag-Pd alloys	**Applied Innovative Research** Vol.4, No.1, pp. 23-32
114.	R. P. Singh, S. Yadav, **Devraj Singh**, G. Mishra	2023	Theoretical investigation of temperature dependent elastic, thermophysical ultrasonic of Sc-Ti-Zr-Hf quaternary alloy	**Applied Innovative Research** Vol. 4, No.1, pp. 33-40
115.	A.K. Maddheshiya, S.P. Singh, **Devraj Singh**, R. R. Yadav and P.S. Yadav	2024	Nonlinear thermophysical behaviour of transition metal titanium https://doi.org/10.1595/205651323X16653975448311	**Johnson Matthey Technology Review** Vol. 68, No. 1, pp. 37-48, **(IF=2.3)=SCOPUS**
116.	A. Singh and **Devraj Singh**	2024	Influence of temperature and orientation on elastic, mechanical, thermophysical and ultrasonic properties of platinum group metal carbides https://doi.org/10.1595/205651323X16902884637568	**Johnson Matthey Technology Review** Vol. 68, No. 1, pp.49-59, **(IF=2.3) = SCOPUS**
117.	A. Singh, S. Tripathi, **Devraj Singh** and B. Jyoti	2024	Tailoring mechanical, thermophysical and ultrasonic properties of dysprosium monochalcogenides https://doi.org/10.14456/easr.2024.32	**Engineering and Applied Science Research** Vol.51, No.3, pp.337-346**, SCOPUS**
118.	A. Singh and **Devraj Singh**	2024	Mechanical and thermophysical analysis of B2 structured ferromagnetic materials https://doi.org/10.14456/easr.2024.43	**Engineering and Applied Science Research** Vol. 51, No. 4, pp. 462-472**, SCOPUS**
119.	A. Singh, S. Tripathi and **Devraj Singh**	2024	Elastic, thermophysical and ultrasonic investigation of tin monochalcogenides https://doi.org/10.1142/S0217984924502804	**Modern Physics Letters B** Vol.38, No.32, pp. 2450280 (13 pages), **(IF=1.9) =SCOPUS**
120.	A. Singh, A. Kumar, **Devraj Singh**, R. K. Thakur, A. K. Maddheshiya	2024	Temperature dependent elastic and ultrasonic properties of rare-earth europium monopnictides EuX (X=N, P, As, Sb) https://doi.org/10.56042/ijpap.v62i9.8072	**Indian Journal of Pure & Applied Physics** Vol. 62, No. 9, pp.834-840, **(IF=0.7) SCOPUS**

121.	D.B. Patil, M. K. Zope, R. Madhawi, S. Raj, K. Kishor, S. Devi, D.K. Sinha, R. Singh, **Devraj Singh**	2024	Physical and radiobiological dosimetric comparison of volumetric arc treatment plans with or without flattening filter in synchronous bilateral breast cancer https://doi.org/10.5505/tjo.2024.4346	**Turkish Journal of Oncology** (Turk Onkoloji Dergisi) Vol. 39, No. 4, pp.411-422, **SCOPUS /Embase**
122.	A. Singh, **Devraj Singh**, S. Tripathi and R. Khenata	2024	Impact of alloying on elastic, thermal and ultrasonic properties of wurtzite $Sc_xAl_{1-x}N$ https://doi.org/10.1016/j.physleta.2024.130010	**Physics Letters A** (Elsevier) Vol. 527, 130010, pp.1-7, **(IF=2.3): SCOPUS**
123.	C. P. Yadav, D. K. Pandey, **Devraj Singh** and D. Singh	2025	Ultrasonic non-destructive evaluation of w-GaSe at different temperature https://doi.org/10.1080/10589759.2024.2331258	**Nondestructive Testing and Evaluation Vol.40, No.2, pp.739-750, (IF=4.2) = SCOPUS**
124.	A. Kumar, S. P. Singh, A. Singh, **Devraj Singh**, R. K. Thakur and A. K. Maddheshiya	2025	Ultrasonic Grüneisen parameters of plutonium monopnictides https://doi.org/10.1007/s12648-024-03334-w	**Indian Journal of Physics** Vol. 99, No. 3, pp. 871–881, **(IF=1.6) SCOPUS**
125.	A. Singh, J, Bala, S. P. Singh and **Devraj Singh**	2025	The mechanical, thermophysical and ultrasonic properties of scandium nitride in B1 and B2 phases https://doi.org/10.15625/2525-2518/20142	**Vietnam Journal of Science and Technology** Vol. 63, No. 1, pp. 161-175, **SCOPUS**
126.	J. Chauhan, **Devraj Singh**, R. Khenata, H. Meradji, S. Bin-Omran and A.K. Maddheshiya	2025	Temperature dependent elastic, mechanical, thermal, and acoustic behavior in alkaline earth semiconductors https://doi.org/10.1515/ZNA-2024-0244	**Zeitschrift für Naturforschung A** (DeGruyter) Vol. 80, No. 3, pp. 233-245, **(IF=1.8) = SCOPUS**
127.	F. Bendjedaa, S. Drablia, S. Ghemid, H. Khachai, R. Boulechfar, H. Meradji, F. Chouit, R. Khenata, **Devraj Singh**	2025	Samarium chalcogenides SmX (X=S, Se, and Te) under pressure: The theoretical investigation of the phase transitions and structural, electronic magnetic properties https://doi.org/10.1080/01411594.2025.2479463	**Phase Transitions** (Taylor & Francis) Vol. 98, No. 2-3, pp. 132-152 **(IF=1.3) = SCOPUS**
128.	K.F.Z. Ezzine, F. Litimein, F. Chiker, N. Baki, R. Khenata, A. Bouhemadou, **Devraj Singh**, S. Bin-Omran, A. Yakoubi, S. Goumri-Said	2025	Exploring a new perovskite chalcogenide compound $LaScSe_3$: a promising material for optoelectronic and thermoelectric applications https://doi.org/10.1016/j.mseb.2025.118077	**Materials Science and Engineering B** (Elsevier) Vol. 315, May 2025, pp. 118077, **(IF=3.9) = SCOPUS**
129.	W. Gouasmia, D. Boudjaadar, F. Oumelaz, O. Nemiri, H. Meradji, S. Ghemid, A. Boumaza, S. Bin-Omran, **Devraj Singh**, R. Khenata	2025	First-principles assessment of the structural, phase transition, electronic, elastic and thermal properties of the semiconductor alloys AlSb1- x Bi x (x=0, 0.25, 0.5, 0.75, 1) https://doi.org/10.1140/epjb/s10051-025-00923-4	**The European Physical Journal B** (Springer) Vol. 98, No. 5, pp. 85 (1-19) **(IF=1.6), SCOPUS**

130.	D. Patil, M. K. Zope, D. K. Saroj, S. Devi, D. K. Sinha and **Devraj Singh**	2025	Comparative dosimetric evaluation of hybrid volumetric modulated arc therapy techniques for oesophageal cancer: a treatment planning study https://doi.org/10.1017/S1460396925000160	**Journal of Radiotherapy in Practice** (Cambridge University Press) Vol. 24, No. e19, pp. 1-12, **SCOPUS/Embase**
131.	D. B. Patil, M. K. Zope and **Devraj Singh**	2025	Dosimetric Comparison of 3DCRT, IMRT, and Rapid Arc Treatment Techniques in Cervical Cancer: Evaluating Plan Quality and Organ-at-Risk Sparing https://doi.org/10.1007/s12647-024-00797-4	**MAPAN:** Journal of Metrology Society of India Vol. 40, No. 2, pp. 409–419, **(IF=1.3) = SCOPUS**
132.	P. Singh, A. Singh and **Devraj Singh**	2025	Tailoring elastic, mechanical, thermophysical and ultrasonic properties of TMCs (TM=V, Nb, Ta) https://doi.org/10.56042/ijpap.v63i6.16436	**Indian Journal of Pure & Applied Physics** Vol. 63, No. 6, pp. 508-516, **(IF=0.7) SCOPUS**
133.	M. Zope, D. Patil and **Devraj Singh**	2025	Dosimetric and radiobiological analysis of VMAT treatment plan with flattened and flattening filter-free photon beams for postoperative oral cavity cancer treatment https://doi.org/10.5505/tjo.2025.4496	**Turkish Journal of Oncology** Turk Onkoloji Dergisi) Vol. 40, No. 2, pp. 120-132**, SCOPUS /Embase**
134.	M. K. Zope, D. B. Patil and **Devraj Singh**	2025	A comprehensive analysis of plan quality and normal tissues complications in head and neck https://doi.org/10.5505/tjo.2025.4507	**Turkish Journal of Oncology** (Turk Onkoloji Dergisi) Vol. 40, No. 2, pp. 151-162**, SCOPUS /Embase**
135.	R. Kumar, **Devraj Singh**, S. Tripathi, R. Khenata and S. Bin-Omran	2025	Ultrasonic interactions with microstructural defects in platinum group metal nitrides: osmium nitride, iridium nitride and platinum nitride https://doi.org/10.1595/205651325X17236415666329	**Johnson Matthey Technology Review** Vol. 69, No. 3, pp. 437–452, **(IF=2.3) = SCOPUS**
136.	M. K. Zope, D. Patil, R. Raj, S. Ansari, R. Madhawi, A. Kumar, S. Devi, D. Sinha, R. Singh and **Devraj Singh**	2025	Analytical study of radiotherapy techniques in left-sided breast irradiation using integrated scoring and risk assessment method https://doi.org/10.1017/S1460396925000081	**Journal of Radiotherapy in Practice** (Cambridge University Press) Vol. 24, No. e26, pp. 1-10, **SCOPUS/Embase**
137.	B. Ouchene, H. Meradji, S. Ghemid, O. Drici, A. Boumaza, **Devraj Singh**, W. Ahmed, S. Bin-Omran and R. Khenata	2025	A computational first principles investigation on the structural, elastic, electronic and optical characteristics of the ternary alloys $Sc_xLu_{1-x}N$ https://doi.org/10.1016/j.ssc.2025.115990	**Solid State Communications** (Elsevier) Vol. 403, No. September, pp. 115990 **(IF=2.1), SCOPUS,**

138.	Y. Megdoud, L. Tairi, R. Meneceur, S. Ghemid, H. Meradji, S. Uger, **Devraj Singh**, R. Khenata	2025	Theoretical investigation of the physical features of ternary (emplectite) $CuBiS_2$ and (chalcostibite) $CuSbS_2$: photovoltaic applications https://doi.org/10.1134/S0036024425701560	**Russian Journal of Physical Chemistry A (Springer)** Vol. 99, No. 9, pp. 2115-2126 **(IF=0.8): SCOPUS**
139.	P. Singh, A. Singh and **Devraj Singh**	2025	Tailoring the elastic, mechanical and thermoacoustic properties of transition metal carbides https://doi.org/10.1515/ZNA-2025-0106	**Zeitschrift für Naturforschung A** (DeGruyter) Vol. 80, No.9, pp. 951-960**, (IF=1.3) = SCOPUS**
140.	D. Patil, M. K. Zope, R. Madhawi, S. Devi and **Devraj Singh**	2025	Comparative dosimetric analysis of three radiotherapy fractionation schedules in synchronous bilateral breast cancer: Evaluation of lung and heart NTCP https://doi.org/10.4103/jmp.jmp_63_25	**Journal of Medical Physics** (Wolters Kluwer) Vol. 50, No. 3, pp. 480-492, **I.F: 0.7: SCOPUS/EMBASE/PubMed Central**
141.	A. Righi, F. Bendahma, A. Labdelli, M. Mana, F. Bessaha, G. Bessaha, R. Khenata, **D. Singh**, R.D. Eithiraj, B. Ul Haq and S. Bin-Omran	2025	Structural, optoelectronic, thermodynamic, and thermoelectric properties of LiScNiZ (Z = Si, Ge, Sn) quaternary Heusler compounds via DFT approach https://doi.org/10.1016/j.cocom.2025.e01092	**Computational Condensed Matter** Vol. 44, October 2025, p. e01092 **(IF=3.9): SCOPUS**
142.	A. Singh and **Devraj Singh**	2025	Theoretical modeling of elastic, thermal, and ultrasonic properties of B1-dysprosium monopnictides https://doi.org/10.56042/ijpap.v63i10.21814	**Indian Journal of Pure & Applied Physics** Vol. 63, No. 10, pp. 961-967, **(IF=1.1)**: **SCOPUS**
143.	C. Bourahla, F. Chiker, H. Khachai, R. Khenata, A. Bouhemado, **Devraj Singh**, S. Bin-omran, R.D. Eithiraj, H. R. Jappor, S. A. Khan	2025	Unveiling the structural, optical coating and thermoelectric characteristics of Kesterite-quaternary chalcogenides Ag_2InGaX_4 (X = S, Se, Te) via DFT study https://doi.org/10.1016/j.jpcs.2025.112970	**Journal of Physics and Chemistry of Solids** (Elsevier) Vol. 207, No. Dec., pp. 12970**, (IF=4.9): SCOPUS**
144.	A. Singh, **Devraj Singh,** R. Khenata, A. K. Maddheshiya, A. Boumaza**,** S. A. Khan, S. Bin-Omran and S. Goumri-Said	2025	Integrated computational and machine learning study of elastic, thermophysical, and ultrasonic properties of LiPb alloy https://doi.org/10.1016/j.cocom.2025.e01162	**Computational Condensed Matter** Vol. 45, December 2025, pp. e01162 **(IF=3.9): SCOPUS**
145.	S. Chelli, S. Touam, N. Mounis, F. Guenfoud, A. Douara, H. Meradji, S. Ghemid, R. Khenata, **Devraj Singh**, B. Ul Haq and S. Bin-Omran	2025	Ab-Initio analysis of the structural, electronic, elastic, and optical characteristics of $Y_xB_{1-x}As$ alloys using the FP-LAPW approach https://doi.org/10.1134/S1063783425602875	**Physics of the Solid State** (Springer)**,** Vol. 67, No. 12, pp. 1120–1134, **(IF=1.8): SCOPUS**

146.	M. K. Zope, D. Patil, S. Devi, **Devraj Singh**	2025	Dosimetric validation of treatment Plan interchangeability between factory beam-matched Varian true beam and clinac linear accelerators for volumetric modulated arc therapy and IMRT delivery https://doi.org/10.4103/jmp.jmp_172_25	**Journal of Medical Physics** (Wolters Kluwer) Vol. 50, No.4, pp. 698-708, **I.F: 1.1: SCOPUS /EMBASE/PubMed Central**
147.	A. Singh, **Devraj Singh**, S. Tripathi, R. Khenata, M. Boudjelal, H. Meradji, A. Boumaza	2026	Unveiling the elastic, mechanical, thermoacoustic properties of YbAu compound https://doi.org/10.1142/S0217984925502537	**Modern Physics Letters B (World Scientific)** Vol. 40, No. 1, pp. 2550253, **(IF=3.0): SCOPUS**
148.	R. Kumar, **Devraj Singh**, S. Tripathi, M. Boudjelal and R. Khenata	2026	Structure–Property Correlation in Intermetallic Compounds of Aluminium with Ruthenium, Iridium and Nickel https://doi.org/10.1595/205651326X17510235734462	**Johnson Matthey Technology Review** Vol. 70, No. 1, pp. 101–119, **(IF=2.0): SCOPUS**
149.	N. Serir, M. Khenata, H. Meradji, R. Khenata, H. R. Jappor, **Devraj Singh**, Sh. Rab, S. Bin-Omran, S. Goumri-Said	2026	A Combined First-Principles and Machine Learning Study of Phase Stability and Thermoelectric Properties in ZrSiPt https://doi.org/10.1039/d5cp04318b	**Physical Chemistry Chemical Physics** (Royal Society of Chemistry) Vol. 28, No. 16, pp. 9441–9463 **I.F: 3.0: SCOPUS**
150.	C. P. Yadav, D. K. Pandey, S. Tripathi, R. Vashisth, N. K. Singh, D. N. Mishra and **Devraj Singh**	2026	Regression-based modeling of high temperature elastic and thermoacoustic features of indium phosphide nano materials https://doi.org/10.1016/j.physb.2026.418717	**Physica B: Condensed Matter** (Elsevier) Vol. 737, No. 1st September, pp. 418717, **I.F: 3.2: SCOPUS** (In Press)
151.	A. Singh, **Devraj Singh**, S. Tripathi, R. Khenata, A. Bouhemadou, R. D. Eithiraj, T. Gopala krishnan, F. Semari, B. U. Haq	2026	Combined theoretical and machine learning approach for investigation of elastic, thermal, and ultrasonic properties of wurtzite $Ga_xAl_{1-x}N$ https://doi.org/10.1016/j.cocom.2026.e01348	**Computational Condensed Matter** (Elsevier) Vol. 48, No. 1 October 2026, pp. e01348 **(IF=4.0): SCOPUS**
152.	Y. Seksak, R. Moussa, R. Khenata, H. Meradji, **Devraj Singh**, M. Faizan, A. Bouhemadou, W. Ahmed, S. Ugur, H. Khachai, S. Bin-Omran	2026	Beryllium doping effects on structural, electronic, optical, and thermodynamic features of B3-type $Be_xMg_{1-x}O$ alloys https://doi.org/10.1016/j.radphyschem.2026.114192	**Radiation Physics and Chemistry** (Elsevier) Vol. 249, December 2026, Art. No. 114192 **I.F: 3.5: SCOPUS**
153.	V. N. Jafarova, K. A. Hasanova, M. A. Musayev, R. Khenata, Devraj Singh, S. Rab, S. Bin-Omran	2026	Chirality-dependent electronic and magnetic properties of cobalt-substituted zigzag carbon nanotubes: A spin-polarized DFT study https://doi.org/10.1016/j.jmmm.2026.174406	**The Journal of Magnetism and Magnetic Materials** (Elsevier) Vol. , No. , pp. 174406, **I.F: 3.0: SCOPUS** Accepted for publication

154.	N. Boucerredj, R. Khanata, H. R. Jappor, H. Khachai, **Devraj Singh,** Z. Chouahda, S. Ghemid, H. Oughaddou, S. Bin-Omran, S. Goumri-Said	2026	First-principles and machine learning-assisted exploration of the structural, electronic, optical, and thermoelectric properties of $AuBX_2$ chalcopyrite compounds https://doi.org/10.1007/s11696-026-04953-9	**Chemical Papers** (Springer) Vol. , No. , pp. -, **I.F: 2.7: SCOPUS** (online May 22, 2026)
155.	A. K. Maddheshiya, J. Bala, S. P. Singh, **Devraj Singh**, P. S. Yadav and R. R. Yadav	2026	Tailoring mechanical, thermophysical and ultrasonic features of the B2 structured scandium based intermetallics ScM (M: Ni, Cu, Pt and Hg) https://doi.org/10.1007/s40010-026-01146-7	**Proceedings of the National Academy of Sciences, India Section A: Physical Sciences** (Springer), Vol. , No. , pp. -, **I.F: 1.3: SCOPUS**
156.	H. Grimed, R. Boulechfar H. Bensadalla, F. Semari, Y. Khenioui, D. Sayad, M. Boudjelal, H. Meradji, S. Ghemid, **Devraj Singh** and R. Khenata	2026	Ab-initio Investigation of the Physical features of Pt-Co Intermetallic Compounds	**East European Journal of Physics,** Vol. , No. 3, pp. -, **I.F: 1.7: SCOPUS** (Accepted Paper)
157.	P. Singh, A. Singh, S. Tripathi, **Devraj Singh**, R. Khenata, M. Boudjelal, H. Meradji, A. K. Maddheshiya, B. Ul Haq, S. Bin-Omran	2026	Nondestructive Ultrasonic Evaluation of Temperature-Dependent Mechanical and Elastic Properties of PbX (X=S, Se) Compounds	**East European Journal of Physics,** Vol. , No. 3 , pp. -, **I.F: 1.7: SCOPUS** (Accepted Paper)
158.	M. Boudjelal, S. Bentata, Z. Aziz, R. Khenata, A. Bouhemadou, H. R. Jappor, **Devraj Singh**	2026	A computational investigation of structural, electronic, optical and thermoelectric properties of $MgTiSb_2X_2$ (X=Pd, Pt) DHH alloy	**Optical and Quantum Electronics** (Springer), Vol. , No. 3 , pp. -, **: SCIE** (Accepted Paper)
159.	J. Chauhan, A. Singh, **Devraj Singh,** R. Khenata, S. Drablia, R. Boulechfar, A. Boumaza	2026	Impact of orientation and temperature on Grüneisen parameters of MgO and NiO	**Vietnam Journal of Science and Technology** Vol. 64, No., pp. -, **SCOPUS** (Accepted Article)
160.	D. B. Patil, M. K. Zope, **Devraj Singh**	2026	Normal tissue complication probability analysis of VMAT versus hybrid VMAT/IMRT technique in left-sided breast cancer	**Journal of Cancer Research and Therapeutics** (Wolters Kluwer) Vol. , No. , pp. -, **I.F: 1.4: SCOPUS /EMBASE/PubMed Central** (Accepted Paper)
161.	A. Sehil, M. Khenata, F. Chiker, H. Khachai, A. Yakoubi, R. Khenata, **Devraj Singh**, S. A. Khandy, A. Bouhemadou, S. Bin-Omran	2027	DFT-based modelling of optoelectronic, thermodynamic and thermoelectric properties in copper-based perovskites $CuMCl_3$ (M: Ca and Sr) for thermoelectric applications https://doi.org/10.1142/S0129183127500045	**International Journal of Modern Physics C** (World Scientific) Vol. 38, No. 1, pp. 2750004 (22 pages) **(IF=1.4): SCOPUS**

162.	J. Chauhan, S. Tripathi, **Devraj Singh**, R. Khenata, M. Boudjelal, B. Ul Haq, and S. Bin-Omran	2027	Effect of temperature on the elastic and thermoacoustic properties of TbX (X = As, Sb, Bi) compounds https://doi.org/10.1142/S0129183127500460X	**International Journal of Modern Physics C** (World Scientific) Vol. , No., pp. 2750046 (18 pages) **(IF=1.4): SCOPUS** (on-line)

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 **Devraj Singh**	2020	Diameter dependent ultrasonic investigation of SiC nanowires	Innovative Applications of Nanowires for Circuit Design	IGI Global, Hershey PA, USA
2.	V. Bhalla and **Devraj Singh**	2023	Mechanical and thermo-physical properties of rare-earth materials, pp. 809-841 https://doi.org/10.1007/978-981-19-1550-5_40-1	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, **Devraj Singh**, 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 **Devraj Singh**	2000	Ultrasonic characterization in intermetallics	15th World Conference on Nondestructive Testing, Roma, 15-21 October
2.	**Devraj Singh** and R. R. Yadav	2006	Ultrasonic studies of terbium chalcogenides	15th National Symposium on Ultrasonics, University of Allahabad, 1-3 Nov.
3.	P. K. Yadawa, **Devraj Singh**, 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.	**Devraj Singh**, 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. (www.nsa2010.gpgcrishikesh.com)
5.	P. K. Yadawa and **Devraj Singh**	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. (www.nsa2010.gpgcrishikesh.com)
6.	P. K. Yadawa and **Devraj Singh**	2010	Ultrasonic behavior of velocities and higher order elastic constants in Zener alloys, p.112	The 20th International Congress on Acoustics (ICA-2010), Sydney, Australia, Aug. 23-27 (www.acoustics.asn.au/conference_proceedings/ICA2010/cdrom.../p112.pdf)
7.	C. Tripathy, **Devraj Singh**, 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, **Devraj Singh**, A. Mathur, M. Wan, P.K.	2016	Experimental investigation on the thermal conductivity and ultrasonic velocity of	19th World Conference on Nondestructive Testing, Internationales Congress Center

	Dhawan, A.K. Jaiswal and R.R. Yadav		propylene glycol based TiO_2 nanofluids	München Messegelände – 81823 Munich – Germany, 13-17 June
9.	S. Tripathi, R. Agarwal, R. Vashisth and **Devraj Singh**	2020	Deflection analysis of capacitive micromachined ultrasonic transducer with InP nanowires doi: 10.1109/SPIN48934.2020.9070881	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; 70th 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 monopnictides	National Symposium on Acoustics, 18-20 October	Vellore Institute of Technology, **Vellore (TN)**
2.	2002	Acoustical investigations on plutonium monochalcogenides	National Symposium on Acoustics, 22-24 October	Aligarh Muslim University, **Aligarh (U.P.)**
3.	2002	Effect of composition on ultrasonic attenuation in metallic alloys at room temperature	National Symposium on Acoustics, 22-24 October	Aligarh Muslim University, **Aligarh (U.P.)**
4.	2002	Ultrasonic evaluation in rare-earth metals	National Symposium on Acoustics, 22-24 October	Aligarh Muslim University, **Aligarh (U.P.)**
5.	2002	Application of Morse Potential to the ultrasonic attenuation in BCC metals	National Seminar on NDE, 5-7 December	Hotel Taj Connemara, **Chennai**
6.	2003	Acoustical properties of rare-earth monochalcogenides	National Symposium on Acoustics, 30 October-1 November	The Automotive Research Association of India**, Pune**
7.	2003	Low temperature study of metallic alloys	National Symposium on Ultrasonics, 3-5 November	Guru Nanak Dev University, **Amritsar** (Pb.)
8.	2004	Ultrasonic characterization of thulium monochalcogenides in the temperature range 100 to 300K	The National Academy of Sciences, India; 74th Annual Session, 2 to 4 December	University of Rajasthan, Jaipur+ BISR, **Jaipur (RJ)**
9.	2004	Acoustic attenuation in scandium antimonides	The National Academy of Sciences, India; 74th Annual Session, 2 to 4 December	University of Rajasthan, Jaipur+ BISR, **Jaipur(RJ)**
10.	2004	Ultrasonic wave propagation in some B2-structured intermetallics	7th conference of International Academy of Physical Sciences (CONIAPS-VII), 21-23 December	University of Allahabad, **Allahabad**
11.	2005	Ultrasonic attenuation studies in some BCC structured intermetallics	National Symposium on Acoustics , 14—16 December	National Aerospace Laboratory, **Bangalore**
12.	2005	Acoustic wave propagation in chalcogenides of Tm	National Symposium on Acoustics (14—16 December)	National Aerospace Laboratory, **Bangalore**
13.	2005	Akhieser damping in refractory compounds	National Symposium on Acoustics(14—16December)	National Aerospace Laboratory, **Bangalore**
14.	2005	Low temperature ultrasonic study of metallic alloys	National Symposium on Acoustics (14—16 December)	National Aerospace Laboratory, **Bangalore**
15.	2006	Ultrasonic studies of terbium chalcogenides	National Symposium on Ultrasonics, 1-3 November	University of Allahabad, **Allahabad**
16.	2007	A computer program for Evaluation of Nonlinear Nondestructive Testing	National Seminar on Latest Developments in Computer Technology (4-5 February)	Iswar Saran Degree College of University of **Allahabad**, Allahabad

		Properties of Lanthanum Monochalcogenides		
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, **Kausambhi, U.P.**
18.	2010	Synthesis and ultrasonic characterization of ZnO nanofluid	National Conference on Nanotechnology for Sustainable Development (NAN0, 2010) (Dec. 9-10, 2010)	Kulbhaskar Ashram PG College, **Allahabad**
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 **Jaipur**
20.	2011	Ultrasonic Study of Rare Earth Materials for Engineering Applications **(Invited)**	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, **Rohini**, 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, **Udaipur**, Rajasthan
23	2012	Ultrasonic wave propagation in bifluorides XF_2 (X: Ca, Sr, Cd and Ba)	National Symposium on Ultrasonics (30-31 October)	National Physical Laboratory, **New Delhi**
24	2013	Crucial role of NDT in present scenario	Annual Convention of IAPT, 15 April, 2013	RC-1 of IAPT at **Bal Bhawan**, New Delhi
25	2013	Sensitivity of ultrasonic properties to the magnetic, electrical and thermal parameters	International conference on Recent Trend & Devices (ICRTMD-2013) , 30-31 October, 2013	Amity Institute of Applied Sciences, Amity University Uttar-Pradesh, **Noida**
26	2014	Materials Characterization by Ultrasonics **(Invited)**	UGC Sponsored National Conference on Materials Characterization and Their Applications, 6th Feb., 2014	Anand Niketan College, **Anandwan**-Warora, Chandrapur (Maharastra)
27	2014	Mechanical and thermal properties of rare-earth monoarsenides: An ultrasonic study	21st National Conference on Liquid Crystals; 10-12 November	V.S.S.D College, CSJM University, **Kanpur**, U.P.
28	2014	Temperature dependent elastic and ultrasonic properties of silver halides **(Invited)**	UGC Sponsored National Conference on Future Perspectives of Science & Technology in Society and Governance (FPSTSG-2014) 29-30 November, 2014	SSV College, **Hapur**, U.P.
29.	2014	Tap Mapan kee Upyogita (Importance of Temperature Measurement) **(Invited)**	Rashtriya Sangoshthi: Mapiki-2014 8-9 December, 2014	National Physical Laboratory, **New Delhi**
30.	2015	Role of Ultrasonic NDE for the characterisation of materials at different physical conditions **(Invited)**	International Symposium on Ultrasonics (ISU-2015) 22-24 January, 2015	RTM Nagpur University, **Nagpur**
31.	2015	Mechanical and thermal properties of single crystalline materials **(Invited)**	National Conference on Novel Synthesis of Advanced Materials and Their Applications (NSAMA-2015) February 16, 2015	Arts, Commerce & Science College, Maregaon (Road), **Yavatma**l, Maharastra

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, **Varanasi**
33.	2015	Ultrasonic non-destructive testing characterization of rare-earth materials **(Invited)**	National Conference on Recent Advances in Materials & Field Theory (NCRAMFT-2K15) December 28-29, 2015	Bhagwan Parshuram Institute of Technology, Rohini, **Delhi**
34.	2016	Role of Mechanical and Thermophysical Properties for Rare-earth Materials **(Invited)**	National Conference on Role of Science and Technology in Socio-economic Development, Feb. 28-29, 2016	Dr. B. R. Ambedkar Govt. Degree College, **Mainpuri**, U.P.
35.	2017	Behaviour of mechanical and ultrasonic properties of rare-earth materials **(Invited)**	National Conference on Recent Advances in Materials Science and Nano-Technology (RAMST-2017) on 21 April 2017	Amity University, Manesar, **Gurgaon**
36.	2017	Elastic, ultrasonic and thermophysical properties of materials for advanced applications **(Invited)**	National Symposium on Advances in Ultrasonics and Materials Research 8th to 10th November 2017	Central University Himanchal Pradesh, **Dharamshala**
37.	2018	Advanced Materials: Mechanical and Thermophysical Properties **(Invited)**	National Seminar on Environmental Hazards and Their Management 8th December, 2018	Gramarishi Pt. Ram Kumar Pandey Gramodaya Ashram P. G. College, Beersinghpur, Saya, **Ambedkar Nagar**, U.P.
38.	2019	Ultrasonic studies of the nonlinear behavior of solid materials: a brief review **(Invited)**	Internal Conference of Ultrasonics and Materials Science for Advanced Applications 16th to 18th November 2019	VBS Purvanchal University, **Jaunpur**, U.P.
39.	2020	Theoretical Investigations of Engineering Materials for their Potential Applications **(Invited)**	International Conference on Advances in Physical, Chemical & Mathematical Sciences 13-16 February, 2020	Rashtrasant Tukadoji Maharaj Nagpur University, **Nagpur**
40.	2020	Perspectives and Prospectives of Ultrasonics **(Invited)**	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, **Jaunpur**
41.	2021	Role of Ultrasound for Materials Characterisation **(Invited)**	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, **Yavatmal, Maharastra**
42.	2021	Mechanical and Thermophysical Properties of Advanced Materials **(Invited)**	Virtual Online Meeting on the National Symposium on Acoustics (NSA 2020-21) during 22 - 23 March 2021 on 23rd March, 2021	CSIR-National Physical Laboratory, Dr. K. S. Krishnan Road, **New Delhi** 110012, India
43.	2022	Elastic, Mechanical and Thermal Properties of Rare-Earth Materials by Ultrasonic Analysis **(Invited)**	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, Maharatra**
44.	2023	Mechanical, thermo-physical and ultrasonic properties of condensed materials **(Invited)**	Virtual Online Meeting on International Faculty Development Programme on Advanced Functional Materials: Energy, Environment & Sustainable Development during	Department of Physics, SRM TRP Engineering College, **Tiruchirapalli** in Association with Science Club.

			28-02-2023 -09-03-2023 on 06-03-2023	
45.	2024	Evaluation of Uncertainty Associated with Measurements **(Expert talk)**	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 **(Expert Talk)**	A One -day National Conference on Exploring the Frontier of Smart Materials (NCEFSM-2024) on 15th 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 **(Invited Talk)**	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
48.	2024	Insights into the Elastic, Mechanical, Thermal and Acoustic Features of Condensed Materials **(Invited Talk)**	International Conference on Frontiers in Materials Science and Technology (ICFMST) December 5 & 6, 2024	Department of Physics, SRM TRP Engineering College, **Tiruchirappalli** – 621105, Tamil Nadu
49.	2025	Evaluation of Uncertainty Associated with Measurements **(Expert talk)**	National Workshop/Seminar on "Evaluation of Uncertainty Associated with Measurements" on 20 Sept., 2025	Regional Reference Standard Laboratory, **Ahmedabad**
50.	2026	**KA-11:** Unveiling the Elastic, Mechanical and Thermoacoustic Properties of Condensed Materials **(Invited Talk)**	ANRF sponsored International Conference on Ultrasonics & Material Science for Advanced Technology (ICUMSAT-2025), January 21-23, 2026	Department of Physics, Easwari Engineering College, **Chennai** – 600 089
51.	2026	Elastic, Mechanical and Thermoacoustic Properties of Condensed Materials **(Invited Talk)**	CSJM University sponsored National Seminar on "Indian Knowledge System: Past, Present and Future in View of Physics", on 24th & 25th March, 2026	Department of Physics of Dayanand Anglo-Vedic College, Kanpur

F. Submitted Papers in Referred Journals

S.No.	Authors	Year	Title	Complete reference of journal
1.	R. Kumar, **Devraj Singh**, R. Khenata, S. Bin-Omran, A. Boumaaza, S. Kaushik and R. Kaushik	2025	Exploring the mechanical, thermal, and ultrasonic properties of CrC and MoC compounds: Insights from theoretical analysis	Pramana-Journal of Physics (Springer)
2.	P. Singh, **Devraj Singh**, A. K. Srivastava, R. Khenata, M. Boudjelal, B. Ul Haq, S. Bin-Omran [e] and S. Tripathi	2025	A Theoretical Study on Elastic and Acoustic Properties of ReC and ReN	Modern Physics Letters B (World Scientific)
3.	J. Chauhan, **Devraj Singh**, A. Singh, S. Tripathi, R. Khenata, M. Boudjelal, A. Boumaza and H. Meradji	2025	Investigation of the Mechanical, Thermal, and Acoustic Performance of Titanium and Chromium Nitride	Acoustical Physics (Springer)
4.	N. K. Singh, A. Singh, M. Hachemaoui, **Devraj Singh**, R.Khenata, A. K. Maddheshiya, A. Bouhemadou, M. Radjai, S. Saad Essaoud	2026	Unveiling the elastic, mechanical and ultrasonic properties of magnesium chalcogenides	Condensed Matter Physics (Ukraine)
5.	P. Singh, S. P. Singh, **Devraj Singh**, R. Khenata, A. Boumaza, M. Faizan, S. Bin-Omran, M. B. Kanoun, S. Goumri-Said	2026	Direction-dependent ultrasonic attenuation and thermo-acoustic efficiency of B2-ErAg and ErAu intermetallics: sensitivity analysis and physics-informed surrogate interpolation	Results in Engineering (Elsevier)
6.	D. Patil, M. K. Zope, R. Madhawi, S. Devi and **Devraj Singh**	2025	Machine Learning-Based Prediction of Mean Heart Dose and DIBH Selection in Left-Sided Breast Cancer VMAT Radiotherapy Planning	Journal of Medical Physics (Wolters Kluwer)

7.	S. Djellab, L. Tairi, B. Ouchene, S. Ghemid, H. Meradji, V. N. Jafarova, M. Faizan, R. Khenata, **Devraj Singh**, S. Bin-Omran	2026	Ab Initio Insights into the optical response, elastic stability, and thermoelectric performance of SrMgSi and SrMgSn half-Heusler materials	~~Indian Journal of Physics (Springer)~~
8.	V. N. Jafarova, V. K. Sarijanova, N. A. Gardashbeyova, F. Guliyev, I.-C. Scurtu, R. Khenata, S. Bin-Omran, **Devraj Singh**	2026	First-principles DFT+U investigation of the electronic Structure, magnetism, and stability of Fe-doped ZnO dilute magnetic semiconductors	~~Journal of Superconductivity and Novel Magnetism (Springer)~~
9.	A. Singh, S. Tripathi, R. Vashisth, **Devraj Singh**, R. Kumar, R. Khenata, M. Boudjelal, A. Bouhemadou, M. Faizan, S. Bin-Omran	2026	Anisotropic ultrasonic and thermoelastic characteristics of ZnS and ZnSe in wurtzite phase: A machine learning accelerated computational study	Physica B (Elsevier)
10.	N. K. Singh, M. Hachemaoui, R. Kumar, A. Singh, S. Tripathi, R. Vashisth, Devraj Singh, Y. O. Ciftci, R. Khenata	2026	A combined theoretical and machine learning analysis on the attenuation of ultrasonic waves in the semimetal ScSb at low temperature	International Journal of Modern Physics C (World Scientific)
11.	Y. Nassah, R. Louardi, R. Khenata, **Devraj Singh**, V. N. Jafarova, R. D. Eithiraj, M. Faizan, S. Bin-Omran	2026	First-Principles Investigation of the Structural, Elastic, Electronic, and Optical Properties of $RInO_3$ (R = Sr, Ba): A Machine Learning-Assisted Study	Physical Chemistry Chemical Physics (RSC)
12.	A. Bourai, H. Meradji, S. Ghemid, B. Khalfa, A. Boumaza, R. Khenata, **Devraj Singh**	2026	FP-LAPW Investigations of Perovskite $NaZnBr_3$: Analyzing the structural, electronic, mechanical, optical and Thermoelectric properties for suitable optoelectronic applications	To be finalized
13.	..... R. Khenata, **Devraj Singh**,	2026	First-Principles Investigation of the Structural, Electronic, and Optical Properties of Al-Based Fluoroperovskites $MAlF_3$ (M = Zn, Hg) for Optoelectronic Applications	To be finalized
14.	..... R. Khenata, **Devraj Singh**,	2026	Exploring the structural, elastic, electronic, and optical properties of $RInO_3$ (R=Sr, Ba) compounds for optoelectronic applications.	To be finalized
15.	.....R. Khenata, Devraj Singh	2026	Refractive index dispersion analysis of $Nd_2Be_2GeO_7$ compound for potential nonlinear optical application	To be finalized
16.	.....R. Khenata, Devraj Singh	2026	Density Functional Theory Investigation of MoS_2-Based Ni–Mo and Co–Mo Catalysts for Diesel Hydrotreating	To be finalized
17.	.....R. Khenata, Devraj Singh	2026	Optical and thermoelectric performances of LiSrZ (Z=Sb, Bi) for energy conversion applications: DFT and Boltzmann transport theory	To be finalized
18.	R. Khenata, Devraj Singh, ...	2026	Structural, optoelectronic, thermodynamic characteristics of gold-based perovskite $AuMCl_3$(M-Ca, Sr) via conceptual DFT study	To be finalized
19.	Rabah Khenata, **Devraj Singh**	2026	Two approaches of density functional theory to investigate structural, elastic, electronic, optical and thermodynamic properties of Zintl-phase Ba_5As_4	To be finalized
20.	.....R. Khenata, Devraj Singh	2026	First-Principles Prediction of Structural, Electronic, and Magnetic Properties of Mn Doped (6,0) Carbon and Silicon Carbide Nanotubes for Spintronic Applications	To be finalized
21.	S. Tripathi, C. Tripathy, S. P. Singh, **Devraj Singh** and R. Paikaray	2026	Mechanical and thermophysical properties of CoN and NiN	Under preparation

G. Published Books

S.No.	Authors	Year	Title	Name of the publisher
1.	**Devraj Singh**	2022	**Engineering Physics Vol.I**-5th Edn. (For GGSIP University, Delhi) ISBN: 9788177000191	**Dhanpat Rai & Co.** Pvt. Ltd., New Delhi
	Contents→	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.	**Devraj Singh**	2022	**Engineering Physics, Vol.II**-6th Edn (For GGSIP University, Delhi) ISBN: 9788177000207	**Dhanpat Rai & Co.** Pvt. Ltd., New Delhi

	Contents→	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.	**Devraj Singh**	2011	**Fundamentals of Engineering Physics, Vol-I**-2nd Edn (For Haryana)	**Dhanpat Rai & Co**. Pvt. Ltd., New Delhi
	Contents→	1.Interference of Light waves , 2. Diffraction of Light waves, 3. Polarization of Light waves, 4. Laser Fundmentals, 5. Fibre Optics, ,6. Electromagnetic Theory, 7. Dielectric Materials, 8. The Special Theory of Relativity, 9. Nuclear Physics, 10.. Superconductivity		
.	**Devraj Singh**	2012	**Fundamentals of Engineering Physics, Vol-II**-3rd edn. (For Haryana) ISBN: 9788177000566	**Dhanpat Rai & Co.** Pvt. Ltd., New Delhi
	Contents→	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	**Applied Physics** (For Amity University)-Second Edition ISBN: 9789380386881	**University Science Press** (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	**Fundamentals of Optics-**Second Edition Print Book ISBN : 9788120351462 eBook ISBN : 9789354435799	**PHI Learning** Pvt. Ltd, Delhi (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	**Principles of Engineering Physics, Vol.-I-**2nd Edition (For Rajasthan Technical University) ISBN: 9788177000306	**Dhanpat Rai & Co.** Pvt. Ltd., New Delhi
	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	**Introductory Engineering Physics,** 2nd Edition (For Punjab Technical University) ISBN: 9788177000351	**Dhanpat Rai & Co.** Pvt. Ltd., New Delhi
	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	**Principles of Engineering Physics, Vol.-II-**Second Edition (For Rajasthan Technical University) ISBN: 9788177000467	**Dhanpat Rai & Co.** Pvt. Ltd., New Delhi
	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	**Mechanics and Wave Motion---** for B.Sc.I 1st Edition (For U.P. State Universities) ISBN : 9789389520316	**I.K. International** Pvt. Ltd, Delhi (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	**Circuit Fundamentals and Basic Electronics-----** for B.Sc.I 1st Edition (For U.P. State Universities) ISBN : 9789389520583	**I.K. International** Pvt. Ltd, Delhi (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	**Modern Physics for Scientists and Engineers** (A Textbook for Undergraduate Students) Print Book ISBN : 9788120348585 eBook ISBN : 9789354438042	**PHI Learning** Pvt. Ltd, Delhi (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	**Building Science: Lighting and Acoustics** (for B.Arch.) ISBN: 9788177000450	**Dhanpat Rai & Co.** Pvt. Ltd., New Delhi
	Contents→	Part A: Lighting: 1. Basic Concepts of Lighting, 2. Daylighting, 3. Integrating Daylighting, 4. Lghting 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	**Integrated Engineering Physics** 1st Edition (For Gujarat Technological University)	**Dhanpat Rai & Co.** Pvt. Ltd., New Delhi
	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	**Electronic Devices-2nd E**dition (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	**Numerical Problems in Physics, Vol.-I** **ISBN:** 978-81-8487-447-1	**ALPHA SCIENCE** 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	**Numerical Problems in Physics, Vol.-II** **ISBN:** 978-81-8487-450-1	**ALPHA SCIENCE** 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	**Thermal Physics: Kinetic Theory and Thermodynamics** **ISBN:** 978-81-8487-457-0	**ALPHA SCIENCE** 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	**Applied Optics** 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	**A Textbook of Engineering Physics**(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	**Electronic Devices & Circuits** [For GGSIPU, Delhi) ISBN-13: 978-1-78332-272-5, ISBN: 9781783322725	**ALPHA SCIENCE** 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	**Foundation of Physics** [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 Haet 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		
Proceedings of National Conference on Novel Synthesis of Advanced Materials and Their Applications (NSAMA-2015) ISBN: 978-81-930894-1-5	Editors: S. J. Dhoble O.P. Chimankar, **Devraj Singh** and Dr. N. R. Pawar	ISST, Ghaziabad, U.P.
Ultrasonics and Materials Science for Advanced Technology 2020 ISBN: 978-81-8487-703-8	Editors: Giridhar Mishra, Punit K. Dhawan Manish Kumar Gupta **Devraj Singh**	Narosa Publishing House Pvt. Ltd., New Delhi



(Prof. Devraj Singh)