

Prof. Dr. Raja Ram Yadav

Vice-Chancellor, Veer Bahadur Singh Purvanchal University Jaunpur-222003
 Professor, Physics Department (U.G.C. Centre of Advanced Studies)
 University of Allahabad (Central University), Allahabad- 211002 (on lien)
 Email: vc_vbspuniversity@rediffmail.com

Personal Information

- Nationality : Indian
- Date of Birth : January 04, 1957

Sex : Male Place of Birth : Village & P.O.- Singhanpur Baghari, Mahoba (Bundelkhand)

Education

Qualifications	Subjects	Year	University/College	Rank
Ph.D.	Study of Ultrasonic	1988	Allahabad University, Allahabad	
	Attenuation			
M.Sc.	Physics	1979	Allahabad University, Allahabad	First
	(Spectroscopy)			Position
B.Sc.	Physics, Chemistry,	1977	Allahabad University, Allahabad	
	Maths			
High School		1971-74	Shri Vidya Mandir Inter College,	
& Intermediate			Hamirpur (U.P.)	
Junior High		1969-71	Sri Gopal Madhyamic Vidyalaya-	
School			Karahiya, Hamirpur (U.P.)	
Primary		1965-69	Gurdaha, Hamirpur (U.P.)	
Education				

Positions held (in chronological order):

University/ Organization	Year	Position
Allahabad University	1980-1983	Junior Research Fellow
Oil and Natural Gas Commission (ONGC), India	1983-1988	Geophysicist (Wells)
National Organization	1988-1992	Social Worker
Mahatma Gandhi Chitrakoot Gramodaya	1992-1996	Lecturer
Vishwavidyalaya Chitrakoot, Distt. Satna (M.P.)		
Allahabad University	1996-2004	Reader
Allahabad University	2004-contd.	Professor

Administrative Experience:

Name of the	Designation	Nature of	Nature of	Period	Length of
Institution/Department		Post	Assignment		Experience
Oil and Natural Gas	Geophysicist	Permanent	Scientific	7 Jul 1983 to	5 Yrs 3
commission, Govt. of	(Wells)		Operations,	3 Oct.1988	months
India (ONGC)			Research and		
			Managerial		
Chitrakoot Gramodaya	HOD Physics,		Administrative	July 1992	More than 4
Vishvidyalaya,	Dean Science			To Nov.	Years
Chitrakoot	and Dean			1996	
	Student				
	Welfare Officer				
Allahabad University,	Laboratory		Administrative	Dec.1996 to	2 Yrs
Allahabad	Incharge of		+ Technical	Dec.1998	
	B.Sc. and			(in B.Sc.II	
	M.Sc.			lab)	
				Jul. 2005 to	
				April 2017	12 yrs
				(in M.Sc.	-
				(Prev.)	
				general lab)	
Allahabad University,	Superintenden		Administrative	Sept. 2003	2 Yrs
Allahabad	t of Sir G.N.		+Financial	to Sept.	
	Jha Hostel		Management	2005	
Allahabad University,	Programme		Administrative	Sept. 2004	8 Yrs
Allahabad	Officer of		+ Socialistic	to 2012	
	National		Managerial		
	Service Scheme				
	(INSS)			I-1 2011 +-	7
Allahabad University,	Principal, All		Administrative	July 2011 to	/ Yrs
Allalladad	India Services		+ Financial	1017	
	Examination		management	2017	
	Training Centre				
Hindusthan Samachar	Director	By election	Administrative	2010 - 2016	7 Yrs
(Multilingual News	-		and managerial		
Service Agency)					

Remarkable achievements in Administration:

- Established the whole Science faculty particularly the laboratories of all the departments of the faculty in record time working as a Dean-Science and Head of Physics Department- Mahatma Gandhi Chitrakoot Gramodaya Vishwavidyalaya-Chitrakoot, Distt.-Satna (M.P.), India.
- During the tenure as a Superintendent of Sir G.N. Jha Hostel, Allahabad University. Record new admissions more than 90 out of total capacity 200 students were made in one year and presented the +2 lakh rupees budget in place of -3 lakhs at the time of taking charge and renovation work was done of more than 3 lakhs by managing the donations. Since then, the hostel is producing IAS/Scientists every year.

Research Interests: Nanoscience & Technology, Laser Spectroscopy, Ultrasonics, Nondestructive Characterization Sciences of Nanofluids, Nanocomposites, Nanocomposites-GMR materials, Materials Science for Biomedical Applications.

Most Innovative Contribution in the Scientific Research:

Prof. R.R. Yadav has developed the theoretical approach for calculation of temperature dependent non-linear elastic properties of cubic/ hexagonal structured intermetallics, alloys (ternary/ quaternary), nanowires and nanotubes.

Ultrasonic attenuation was modeled and implemented for different technologically important engineering material systems such as nuclear fission products, nanofluids/ nanocomposites and the intermetallics emerging new physics. The work is important to extract the information about the nanostructured characteristic features, fundamental processes and the characteristic thermophysical properties of the advanced materials.

Dr. Yadav successfully synthesized first time the nanofluiditic GMR materials developing ultrasonic based chemical method. Dr. Yadav developed the ultrasonic mechanism to predict anomalous enhancement of the temperature dependent thermal conductivity of the nanofluids and theoretically modeled the experimental results very important for coolant technology in microchannels and medical applications.

Dr. Yadav developed the ultrasonic spectroscopy method replacing the expensive TEM/ SEM to determine the size of nanoparticles lowest up to ~ 10nm and their distribution in liquids. This method does not require any sample preparation.

Prof. Yadav successfully coupled the ultrasonics with the nanoscience and technology recognized as new area "Ultrasonics in Nanoparticles- Liquid Suspensions" in the field of acoustics.

Research Guidance:

Ph.D. Completed	:	16
Ph.D. in Progress	:	6
M.Phil.	:	05

Research Publications/Invited Talks:

- 117 Research papers are published in the journals of international repute.
- 05 Research papers are communicated for publications
- More than 100 Invited Talks in International/National conferences.

Research Projects (Principal Investigator- Dr. R. R. Yadav):

Agency	Title of Project	Total Amount (In Rupees)	Period of Support	Status
U.G.C. New Delhi	Ultrasonic Evaluations in Condensed Materials	40000	2002-2003 (3 yrs)	Completed
DST New Delhi (SP/S2/M-16/2001)	Ultrasonic Investigations in Condensed Materials	746472	2003-2006 (3 yrs)	Completed
U.G.C. New Delhi (32-18/2006SR)	Synthesis and Ultrasonic Characterization of New Series of Optical and GMR materials of Metal Nanoparticles embedded in Insulator Ceramics or Polymers	7 lakhs	2007-2010 (3 yrs)	Completed
DST New Delhi (SR/S2/ CMP-069/2006)	Synthesis and Ultrasonic Characterization of Advanced Materials	13 lakhs	2007-2010 (3 yrs)	Completed
DRDO New Delhi (ERIP/ER/053543/M/01)	Synthesis and Ultrasonic Characterization of Novel Short Fibres Reinforced Nanocomposites and their Applications	43.55 lakhs	2009-2012 (3 yrs)	Completed
UGC Under CAS Program (530/3/CAS/2008/(SAP-I))	Synthesis and Ultrasonic Characterization of Nanoparticles reinforced Polymer Nanocomposites and their applications	22.00 lakhs	5 years	Completed
DST New Delhi (SR/S2/CMP-0038/2011)	"Development and Characterization of Nanomaterials for Biomedical Applications"	22.50 Lakhs	3 years (2013- 2017.)	Completed

• Dr Yadav established the new NDE Research Lab procuring Acoustic Particle Sizer, Ultrasonic Transducer and Hot Disk Thermal Conductivity Equipments.

Awards/ Distinctions:

- National Scholarship by UP Government in 1972.
- 1st position in M.Sc. Physics (Spectroscopy) in Allahabad University (1979).
- Junior Research Fellowship (1980-83) under UGC scheme for Ph.D. work.
- **Visiting Scientist Fellowship** under Visitor Program of Centre of Theoretical Studies, IIT-Kharagpur to work on Nanomaterials.
- Honored by Vishwa Ayurved Parishad (International Forum of Medical Sciences) in 2009 on delivering a popular lecture as a chief guest on Gold nanoparticles in Ayurvedic Sciences.
- Swadeshi Vigyan Puruskar (National Level Award-2001) conferred during the National Conference held at National Physical Laboratory (NPL), New Delhi-India.
- *Prayag Gaurav Samman* (2010) for the **outstanding contribution in the field of** education. The selection of Dr. R.R. Yadav for the award was made by a nine member's jury chaired by the Hon'ble Justice of Allahabad High Court.
- **Best Research Paper award (2004)** in our work by Acoustical Society of America during the National Symposium on Acoustics held at Mysore (India). The news was published in the "Journal of Acoustical Society of America" (USA).
- Dr. M. Pancholi Award for Best Research Paper in our work by Ultrasonics Society of India during the National Symposium on Ultrasonics held at VaranasiIndia, (2008).
- **Best Research Paper award (2010)** in our work by Acoustical Society of America during the National Symposium on Acoustics held at Rishikesh (India).
- Prestigious M.S. Narayanan Memorial Lecture Award-2011 by Acoustical Society of India.
- Prestigious "INSA Teacher Award-2012" by Indian National Science Academy, New Delhi.
- **Member of Governing Council** Aryabhatta Research Institute of Observational Sciences (ARIES), Govt. of India, Nainital, Uttarakhand.
- Member of governing council- Indian Academy of Social Sciences.
- Member of governing council- Vikram University, Ujjain (M.P.)
- Secretary –Materials Research Society of India (MRSI), Allahabad Chapter.
- Life member The National Academy of Sciences, India (NASI), Allahabad.
- All India Vice-President- Ultrasonics Society of India

- Advisor- The National Academy of Sciences, India (NASI) Allahabad Chapter.
- Fellow-Ultrasonics Society of India.
- Fellow Acoustical Society of India
- Fellow Indian Academy of Social Sciences
- Visiting Fellow Science and Engineering Research Council (SERC), DST, New Delhi to work at IIT-Roorkee (2007).
- Fellow The Institute of Applied Science (NGO for Rural Development & Water Management), Allahabad on 25th March, 2008.
- Life Member- Vigyan Bharati, New Delhi.
- Life Member- Polymer Society of India.
- Life Member & Former Treasurer- International Order-Disorder System Society.
- Life Member- Academy of Microscope Science and Technology.
- Life Member- Materials Research Society of India.
- Examiner of Ph.D. works in different Universities like University of Hyderabad, Osmania University-Hyderabad, Rohilkhand University-Bareilly, Kanpur University, Bundelkhand University, Rashtra Sant Tukdo Ji Maharaj University-Maharashtra, Madurai Kamraj University-Madurai, Jawahar Lal Nehru University (JNU), New Delhi, Banaras Hindu University, Vikram University Ujjain, Anna University.
- Dr. R.R. Yadav has become a **Member of the Board of Studies** of the Physics Department of the following Universities:
 - o University of Allahabad
 - o Kanpur University Kanpur
 - o APS University, Rewa (M.P.)

o Chitrakoot Gramodaya Vishwavidyalaya Chitrakoot. Distt-Satna (M.P.) o Himanchal Pradesh Central University, Dharmshala.

- Dr. Yadav is an **Expert Member of the Research Degree Committee (RDC)** of Kanpur University.
- Subject Expert Member of U.P. Public Service Commission, Public Service Commission (Jharkhand), Public Service Commission (Chhattisgarh), Indian Institute of Information Technology- Allahabad.
- Dr. Yadav is one of the referees of several International Research Journals.
- Dr. Yadav has delivered more than **100 Invited Talks** on the area of the Nondestructive characterization of the Materials including Nanomaterials in different reputed institution

like DMSRDE (National Laboratory of Defence research & Development Organization) Kanpur, Material Science Center IIT Kharagpur, National Physical Laboratory (NPL) New Delhi, Rohilkhand University Barelly, Bundelkhand University, Cochin University of Science and Technology, K.S.R. Institute of Technology, Tiruchengode, Erode (Tamilnadu), Kathmandu- Nepal, Katholieke Universiteit- Leuven, Metz- France.

- Member of National Advisory Committee of An International Conference on Acoustics-2013, National Physical Laboratory, New Delhi, Nov. 10-15, 2013 (organized by India and France)
- **Organizer of Special Structured Session** on "Ultrasonics in Small Particles and their Liquid Suspensions" to be held in Nov. 10-15 Acoustics-2013.
- Dr. Yadav delivered the **Invited talk** on "Nondestructive Characterization of nanoparticles- Polymer Suspensions" in **Kathmandu (Nepal)** during May 23-25, **2008**.
- Dr. R. R. Yadav delivered a talk on "Ultrasonic Properties of Nanoparticles-Liquid suspensions" in the *Leuven University, Belgium.* During 13-16 April, 2007.
- Dr. Yadav chaired the session in *NANO-2005* (International Conference on Nanoscience and Technology at Shivakashi (Tamilnadu) India during 13-15 July, 2005.
- Dr. Yadav has been selected to be CHAIRMAN at the Mini-Symposium on Computational Acoustics at the 9th US National congress on Computational Mechanics held in San Francisco, CA (USA) July 23-26, 2007
- Convener- 15th National Symposium on Ultrasonics (NSU-XV) held at Physics Department, University of Allahabad on 01-03 November 2006.
- Convener-International Mini Workshop on Nondestructive Characterization Science held at Physics Department, University of Allahabad, Allahabad, India on 03 Dec. 2008.
- The Nomination of Dr. R.R.Yadav was sent to the Council of Science and Technology, U.P. for the "Vigyan Ratna Award- 2008" by the competent authority.
- Special Lecture in NSA-2010 conference on invitation of Acoustical Society of America-Madras India Chapter (MIRC-ASA).
- More than 100 National/International conferences participated (60 National, 40 International).
- Invited member in Kathmandu Humboldt Kolleg held at Kathmandu, Nepal during Nov. 15 -18, 2010.

- Chief Guest in the "Valedictory Function" of the National Conference on Emerging Interfaces of Physics and Technology (EIPT-2011) held at School of Studies in Physics, Vikram University, Ujjain (M.P.) on March 30, 2011.
- **Inaugural Lecture** as **Chief Guest** in the National Workshop on Biological Effects of Mobile Radiation in Jaipur National University, Rajasthan 31March, 2012.
- **Convener** Lecture Workshop on "Experimentation in Physics" in ISDC, University of Allahabad, 2012.
- **Keynote address** in the Inauguration of National workshop on Materials Characterization by Ultrasonics in Amity School of Engineering and Technology (Indraprasth University) New Delhi, 3-4 April, 2012.
- **Convener-** National workshop on- "Non-destructive Characterization Sciences" with special reference to Synthesis of Science and Spirituality on Feb. 27 2013 in Physics Department, University of Allahabad, Allahabad.
- **Co- chairman-** International Symposium on Ultrasonics- 2015 to be held at Nagpur, India.
- Member- Expert Committee in UGC, New Delhi.

Academic Visits of Foreign Countries:

Prof. Yadav visited the countries –USA, Canada, Germany, France, Italy, Spain, Austria, Belgium, Sweden, Japan, Finland, Nepal and Singapore to deliver the research contributions in different international conferences.

Literary/Cultural achievements:

Performed Vocal Classical/ Semi-Classical Indian Music in so many public programs-

In Cultural Evening of 15th National Symposium on Ultrasonics held at Physics Department, University of Allahabad, Allahabad during 01-03 Nov.2006.

Shri Vidya Mandir Inter College, Hamirpur (U.P.).

- KDMIPE Auditorium, Oil and Natural Gas Commission, Dehradoon.
- Cultural Evening in Doiwala, Distt. Haridwar (Uttarakhand).
- Jeevandeep Ashram, Roorkee (Uttarakhand).
- Oil and Natural Gas Commission, Nazira (Assam).
- Chitrakoot, Distt. Satna (M.P.)

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- Triveni Theatre, Tansen Marg, Sadbhawana Sanskritic Parishad, New Delhi (2009).
- Vivekananda Association, Gurgaon, Haryana.
- Delivered Special Invited Lecture on Science and Indian Cultural Heritage (A parallel study) during the **Foreign Students Conference** (from 20 different

countries) in Rishikesh (Uttarakhand).

Gandhi Auditorium, Bundelkhand University, Jhansi (U.P.)

Affiliation in Social Organizations:

- **President-** Gramin Vikas evam Paryavaran Sansthan.
- **President-** Swami Shanti Deo Seva Mandal.
- Former Regional Secretary- Sanskritik Gaurav Sansthan
- Member of the Trust- Bundelkhand Gramoday Sansthan
- UP State Pradhan Kesari Nandan Seva Sansthan.

Names of Referees/ Collaborations

Prof. S.K. Joshi- F.N.A., F.N.A.Sc., Padma Bhusan Former Director General- CSIR, N. Delhi 250, National Physical Laboratory (N.P.L.-New Delhi), Dr. K.S. Krishanan Marg, New Delhi-110012 Ph.: (011) 45609363 (O) E- mail: <u>skjoshinpl@gmail.com</u> Which a LENA

Dr. Krishan Lal-F.N.A.

President- Indian National Science Academy (INSA), New Delhi DST Ramanna Fellow and Former Director,

National Physical Laboratory (NPL) New Delhi, India Ph. 011- 45609104, 45608513

E-mail: klal@mail.nplindia.ernet.in

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Padmashri

Former Deputy Director and Professor of Physics, IIT Delhi

Former Vice-Chancellor, DAVV Indore, Lucknow and Bhopal Universities Phone: 91-9839705081

Email: <u>msodha@rediffmail.com</u>

↔ Prof F

Prof. R.P.Singh- F.N.A.Sc.

Former Vice-Chancellor, Lucknow University Former Head- Material science Centre, IIT Kharagpur.

D3/2, Gera's Emerald City (Near Pancard Club) Baner, Pune-411045 Ph. 02027219124

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Former Faculty- Dept. of Political Science University of Hyderabad Ph. (011) 26535457 I

Email: rgharshe@gmail.com

Prof. Jacob Phillip

Former Director-STIC Cochin University of Science and Technology Cochin-682002, India

*

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Dr. S.B. Yadav

Head-Composite Materials DMSRDE (DRDO), Kanpur.

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Dr. T. Jayakumar/Dr. P. Palanichamy

Director, Metallurgy and Materials Group and Head, Non Destructive Evaluation Division Professor and Dean (Engineering-IGCAR), Homi Bhabha National Institute Indira Gandhi Centre for Atomic Research Kalpakkam-603102 (T.N.) India

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Prof. V. Rajendran

Director

Research and Development & Centre for Nano Science and Technology KS Rangasamy college of Technology KSR Kalvi Nagar, Tiruchengode-637215 Namakkal (Dt.), Tamil Nadu, India

*

Dr. Sukhvir Singh

Former Scientist & Head,

Electron & Ion Microscopy Sophisticated Analytical Instruments Div. National Physical Laboratory, Dr. K.S. Krishnan Marg, New Delhi – 110012, India

*

Dr. A.K. Srivastava

Scientist, Electron Microscopy

Division of Materials Characterization National Physical Laboratory Dr. K.S. Krishnan Marg, New Delhi – 110012, India

Prof. Christ Glorieux

Laboratorium voor Akoestiek en Thermische Fysica (ATF) PO 2416 Deptt. Fysica en Sterrenkunde,

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Katholieke Universiteit-Leuven, Belgium

Prof. Nico F. Declercq

Laboratory for Ultrasonic Nondestructive Evaluation Metz- Technopole, France and Atlanta (USA)

* Prof. Mahi R. Singh

University of Western Ontario, London, ON, Canada

* Prof. Dr. Witold Brostow

Laboratory of Advanced Polymers & Optimized Materials (LAPOM), Department of Materials Science and Engineering and Department of Physics, University of North Texas, 1150 Union Circle # 305310, Denton, TX 76203-5017, USA

LIST OF PUBLICATIONS (IN THE REFERRED JOURNALS)

-Dr. R.R. Yadav

S.No.	Author(s)	Year	Title of the Paper	Reference
1		1002		
1.	S. K. Kor and K. K.	1982	Electron-Phonon Interaction in	J. Acoust. Soc. India $10(1)$ (1082) 22
2	S K Kor and B B	1082	Illtrasonic Attenuation in Cu-	Acta Physica Polonica
2.	Vadav	1762	Ni Allovs	A64 (5) (1982) 529
			i i i i i i i i i i i i i i i i i i i	(Poland)
3.	S.K.Kor and R.R.	1986	Akhieser Damping in KCN	Indian J. pure and
	Yadav			Appl. Phys. 24 (7),
				(1986), 336
4.	S.K.Kor and R. R.	1986	Ultrasonic Attenuation in	J.PhysSocJapan .55(1),
-	Yadav and Kailash	1006	Dielectric Crystals	(1986), 207-212
5.	S.K.Kor and R. R.	1986	Ultrasonic Attenuation in	J. Acoust. Soc. India $14(2)$ (1086) 20
	rauav		to Phonon-Viscosity	14(5), (1980), 29
			Mechanism	
6.	R. R. Yadav	1986	Ultrasonic Attenuation in	J. Phys. Soc. Japan
			CeAl3	55(2), (1986), 544-545
7.	S.K.Kor and R.R.	1986	Ultrasonic Attenuation due to	J. pure and Appl.
	Yadav		Electron-Phonon Interaction in	Ultrasonics 8(4),
			Palladium	(1986), 90
8.	Kailash, R. R.	1986	Anharmonic properties of	J. Acoust. Soc. India
	Yadav and		dielectric alloys	14(3), (1986), 235-237
0	R.P.Khare	1097	Domning of Acoustic Ways	I Accust See India
9.	S.N.NOI, K. K. Vaday and Kailash	1987	in Calcite Crystals	J. ACOUST. Soc. India $15(2)$ (1987) $43-48$
				15(2), (1967), 45 46
10.	R. R. Yadav and	1989	Ultrasonics in 'Pd'	J. Acoust. Soc. India
	S.K.Kor			17(3-4), (1989), 180
11.	Kailash, R. R.	1989	Ultrasonic Attenuation in	J. Acoust. Soc. India
	Yadav and K.		Dielectric Alloys	17(3-4), 1989), 187-190
	Shankar	1000		
12.	R. R. Yadav and K.	1993	Orientation dependence of	J. Acoust. Soc. India $21(4)$ (1002) 250 254
12	Slialikal D. D. Vadav and	1009	Temperature dependence of	21(4), (1993), 230-234
15.	Inneiay Singh	1998	Illtrasonic Absorption in	(3&4) (1998) 93-96
	sunnejuy singn		Vittreous Silica	(5001), (1990), 95 90
14.	R. R. Yadav and	1998	Characterization of Vittreous	J. Acoust. Soc. India 26
	Janmejay Singh		Silica	(3&4), (1998), 181-184
15.	R. R. Yadav and	2000	Temperature dependence of	J. Acoust. Soc. India
	Devraj Singh		Ultrasonic Absorption in	28(1-4),(2000),191-198
			Lanthanum	
			Monochalcogenides	

16.	R. R. Yadav and	2001	Behaviour of Ultrasonic	INTERMETALLICS
	Devraj Singh		Attenuation in Intermetallics	(Cambridge) Vol.9 (3),
	<u>-</u>			(2001). 189-192
17.	R. R. Yaday and	2001	Ultrasonic Attenuation in	J.Phys.Soc Japan.
	Devrai Singh		Lanthanum	Vol.70(6), (2001), 1825-
	2 · · · · · · · · · · · · · · · · · · ·		Monochalcogenides	1832
18.	R. R. Yaday and	2001	Ultrasonic Absorption at Low	J. Acoust Soc. India 9(1),
	Devraj Singh		Temperatures	(2001), 220-224
19.	Devrai Singh and R .	2001	Ultrasonic Attenuation in	J. Acoust. Soc. India
	R. Yadav		Gadolinium Monopnictides	29(1), (2001), 176-184
20.	R. R. Yadav, Devraj	2002	Ultrasonic Attenuation in	I.J. Pure & Appl.
	Singh, Arvind		Semiconductors	Physics Vol.40, (2002),
	Kumar Tiwari			pp.845-849
21.	R. R. Yadav, Devraj	2002	Effect of Composition on	J. Acoust. Soc. India
	Singh and Priyanka		Ultrasonic Attenuation in	30 (1-2), (2002), 64 – 67
	Awasthi		Metallic alloys at room	
			temperature	
22.	R. R. Yadav, Devraj	2002	Ultrasonic Evaluation in Rare-	J. Acoust. Soc. India 30
	Singh and Arvind		Earth Metals	(1-2), (2002), 59 – 63
	Kumar Tiwari			
23.	R. R. Yadav and	2002	Acoustical Investigations on	J. Acoust. Soc. India 30
	Devraj Singh		Plutonium	(1-2), (2002), 55 – 58
			Monochalcogenides	
24.	S. K. Kor, R. R.	2003	Ultrasonic studies in	"Molecular Crystals
-	V-J D	1	Counter stand Cotal Think still	and Liquid Crustala"
	Yadav and Devraj		Surfactant Cetyl I rimetnyl	and Liquid Crystals.
	Singh		Ammonium Bromide (CTAB)	(USA) Vol. 390, (2003),
	Singh		Ammonium Bromide (CTAB) in Non-aqueous solution of	(USA) Vol. 390, (2003), pp 75-81
	Singh	2002	Ammonium Bromide (CTAB) in Non-aqueous solution of Ethylene Glycol	(USA) Vol. 390, (2003), pp 75-81
25.	R. R. Yadav & Devraj	2003	Ammonium Bromide (CTAB) in Non-aqueous solution of Ethylene Glycol Effect of thermal conductivity	 (USA) Vol. 390, (2003), pp 75-81 'Acoustical Physics' (Masser) Vol. 40(5)
25.	R. R. Yadav and Devraj Singh R. R. Yadav & Dev Raj Singh	2003	Ammonium Bromide (CTAB) in Non-aqueous solution of Ethylene Glycol Effect of thermal conductivity on "Ultrasonic Attenuation in	and Liquid Crystais (USA) Vol. 390, (2003), pp 75-81 'Acoustical Physics' (Moscow) Vol. 49(5) Samt 2002 nn 595 604
25.	R. R. Yadav & Devraj Raj Singh	2003	Ammonium Bromide (CTAB) in Non-aqueous solution of Ethylene Glycol Effect of thermal conductivity on "Ultrasonic Attenuation in Praseodymium	and Liquid Crystals (USA) Vol. 390, (2003), pp 75-81 'Acoustical Physics' (Moscow) Vol. 49(5) Sept 2003 pp 595-604
25.	R. R. Yadav & Devraj Singh R. R. Yadav & Dev Raj Singh	2003	Ammonium Bromide (CTAB) in Non-aqueous solution of Ethylene Glycol Effect of thermal conductivity on "Ultrasonic Attenuation in Praseodymium monochalcogenides"	and Liquid Crystals (USA) Vol. 390, (2003), pp 75-81 'Acoustical Physics' (Moscow) Vol. 49(5) Sept 2003 pp 595-604
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