

Curriculum Vitae



Dr. Pramod Kumar Yadawa
Associate Professor
Department of Physics

Prof. Rajendra Singh (Rajju Bhaiya) Institute of Physical Sciences for Study and Research
Veer Bahadur Singh Purvanchal University, Jaunpur-222003

Personal Information

Father's Name: Sri Ramashish Yadav

Mother's Name: Smt. Ambika Yadav

Date of Birth : 30 January, 1980

E-mail : pk Yadawa@gmail.com, pk Yadawa@rediffmail.com

Permanent Address: Vill & Post- Basadila Pandey, District- KushiNagar (U.P)

Mobile No. : +91 -8700141797, 9990665616

Educational Qualifications:

Class	University	Year	Subjects
B.Sc.	University of Allahabad	2001	Physics, Maths, Chemistry
M.Sc.	University of Allahabad	2003	Physics (Specialization: Spectroscopy)
D. Phil.	University of Allahabad	2007	Physics (Thesis)*

***Title of the thesis:** *Non-Destructive Characterization of Advanced Materials*

Research Interests: Ultrasonics, Laser Spectroscopy, Nondestructive Characterization, Nanocomposites and Nanofluids, Material Science for industrial and biomedical applications.

Teaching Experience: 18 Years

- As a Guest Faculty in “University of Allahabad” in session 2005- 2007.
- As a Lecturer in “**H M R Institute of Technology & Management Delhi-36**” from 1st August to 17th December, 2007.
- As an Assistant Professor in “**AMITY School of Engineering & Technology, New Delhi-61**” from 18th December. 2007 to 14th September, 2018.
- As an Associate Professor in Department of Physics, “**Prof. Rajendra Singh (Rajju Bhaiya) Institute of Physical Sciences for Study and Research, Veer Bahadur Singh Purvanchal University, Jaunpur**” from 15th September 2018 to till date.

Ph.D. Guidance/ supervision:

S.No.	Title of Thesis	Name of scholar	University	Awarded/ Submitted
1	Synthesis and Non-Destructive Characterization of Nanomaterials for Engineering applications	Navin Chaurasiya	V.B.S. Purvanchal University	Awarded (22-04-2022)
2	Study of functional Materials using Ultrasonic Nondestructive testing	Sachin Rai	V.B.S. Purvanchal University	Ongoing since 2019
3	Thermal and Ultrasonic properties of Nanostructured Materials	Aadesh Kumar Prajapat	V. B. S Purvanchal University	Ongoing since 2020
4	Ultrasonic Non-Destructive Characterization of Emerging Materials for Industrial Applications	Prashant Srivastav	V. B. S Purvanchal University	Ongoing since February, 2023
5	Development of Ionic Liquid Based Gel Polymer Electrolytes for Hybrid Battery-Supercapacitor	Vivek Chaurasiya	V. B. S Purvanchal University	Ongoing since February, 2023
6	Non-Destructive Evaluation of Advanced Materials and its Application in Aerosols Study	Adwitiya Yadav	V. B. S Purvanchal University	Ongoing since February, 2023

Research Projects Ongoing:

S.No	Title (with specific period)	Agency	Period	Grant/ Amount Mobilized (Rs. Lakhs)
1	Development and Non-destructive characterization of ceramics nanomaterials for biomedical applications	IQAC, VBSPU	1 Year (2022-23)	1 Lakh
2	Synthesis and Non-destructive Characterization of Advanced Functional Nanomaterials for Industrial Applications	Uttar Pradesh Higher Education Council (R&D)	3 Years (2022-2025)	5 Lakhs

Administrative Experience:

- **Director**- Prof. Rajendra Singh (Rajju Bhaiya) Institute of Physical Sciences for Study and Research, Veer Bahadur Singh Purvanchal University, Jaunpur from 28th September, 2018 to 12th January, 2020.
- **HoD** of Physics, Prof. Rajendra Singh (Rajju Bhaiya) Institute of Physical Sciences for Study and Research, Veer Bahadur Singh Purvanchal University, Jaunpur from 15th September, 2018 to 12th January, 2020.
- **Member-Academic Council**, Veer Bahadur Singh Purvanchal Univesrity, Jaunpur from 28th September, 2018 to till date.
- Member- Research Prevention Committee (VBSPU) 2021 to till date
- Committee Member for SC/ST Cell (VBSPU) 2019 to till date
- Laboratory In-charge of M. Sc. Electronics and Spectroscopy lab. (2018-2023)
- Faculty in-charge of AMITY Eco Club (2008-2018)
- Co- coordinator of NSS (2015-2017)
- Coordinator of Discipline committee (2012-2018)
- Coordinator of Short attendance in charge (2008-2018)

Academic Accomplishments:

- Best Teacher Award (2017)
- 1st position in M.Sc. Physics (Spectroscopy) in Allahabad University (2003)
- **Visiting Research Fellow**, Centre for Theoretical Studies at Indian Institute of Technology, Kharagpur-721 302 (W.B.), India.
- National Merit Scholarship by U. P. Govt.
- **Life Member**- Ultrasonic Society of India (**USI**)
- **Life Member**- Material Research Society of India (**MRSI**)
- **Life Member**- Indian Association of Physics Teachers (**IAPT**)
- **Life Member**- Acoustical Society of India (**ASI**)
- **Life Member**- Academy of Microscope Science and Technology (**IMST**)
- **Member**- International Association of Engineers
- **Member**-Academic Council of V.B.S. Purvanchal University, Jaunpur
- **Convener** -Board of Studies (**BOS**) -2018, 2019
- **Member**- Board of Studies (**BOS**) -2020, 2021, 2022
- **Editorial Board Member**: International Journal of Physics and Material Science, *Journal of Materials Physics and Chemistry*, *Boson-Journal of Modern Physics*, *BMC Research Notes*, *American journal of Nano Research and Appliocations*
- **Co-convener**- National Seminar on Materials Characterization by Ultrasonics (NSMCU-2012)

- **Co-convener:** Rastra ke Punarnirman me Buddhidharmi jano ki Bhoomika 2019.
- **Director (Organizing Committee)-** International Conference on Ultrasonics and Material Science for Advanced Technology 2019 (ICUMSAT-2019).
- **Organizing Committee Member-** National Youth Day 2019, Convocation 2019, 2020, 2021, 2023, Akatm Manav Darshan Ka Yugbodh 2019
- **Examiners Ph. D.** works in RTM University, Nagpur
- Delivered the Invited talk on “Ultrasonic Characterization of Superhard Material: Osmium Diboride” in International Symposium on Ultrasound Control of industrial Process (UCIP-2012) held at Madrid, Spain during 18-20 April, 2012

Research Publications/ Invited Talks/ Presented Papers:

1. Number of research paper published in reviewed journals : **68**
2. Number of research paper published in international conferences : **8**
3. Papers presented in conferences and abstract published : **30**

List of Publications in referred Journals: Dr. Pramod Kumar Yadawa

2023

1. “Theoretical investigation on mechanical, thermal and ultrasonic properties of epitaxial nanostructured ZrN layers growth on MgO (001) substrate, A. K. Prajapati, S. Rai, P. Srivastav, **Pramod Kumar Yadawa**, **ChemPhysMater**, 2023 In press. <https://doi.org/10.1016/j.chphma.2023.02.003> [ISSN: 0975-1041, Elsevier]
2. “Effect of temperature on elastic, mechanical and thermophysical properties of VN_x (0.76 < x < 1.00) epitaxial layers”, Sachin Rai, A. K. Prajapati, **Pramod Kumar Yadawa**, Journal of the Korean Physical Society, 82 (2023) 46-56. Springer [ISSN: **0374-4884**, Impact Factor: **0.657**]
3. “Pressure Dependent Elastic, Mechanical, and Ultrasonic Analysis of CaAuBi Compound”, Aadesh K. Prajapati, Sachin Rai, **Pramod Kumar Yadawa**, Physics of the Solid State, 65 (2023) Accepted. Springer [ISSN: 1063-7834, Impact Factor: **0.849**]
4. “Effect of Pressure on Elastic Constants and Related Properties of TbNiAl Rare-Earth Intermetallic Compound”, Sachin Rai, Aadesh K. Prajapati, **Pramod Kumar Yadawa**, Physical Mesomechanics, (2023) Accepted. Springer [ISSN: 1029-9599, Impact Factor: **2.025**]
5. “Pressure Dependent Elastic, Mechanical and Ultrasonic Properties of ZnO nanotube”, A. K. Prajapati, Sachin Rai, Kuldeep, **Pramod Kumar Yadawa**, Indian Journal of Pure and Applied Physics, 61 (2) (2023) 115-123. [ISSN: 0975-1041, Impact Factor: **0.846**]

6. “Temperature-dependent behaviour of elastic and ultrasonic properties of transition metal carbide Mo_2C superconductor”, Sachin Rai, **Pramod Kumar Yadawa**, Jordan Journal of Physics, 17 (1) (2024) Accepted. [ISSN: 1994- 7607, Impact Factor: 0.5]

2022

7. “Pressure Dependent Elastic, Mechanical and Thermo-Properties Properties of Titanium Diboride”, A. K. Prajapati, Sachin Rai, **Pramod Kumar Yadawa**, MAPAN-JMSI, 37 (2022) 597-609. Springer [ISSN: 0970-3950, Impact Factor: 1.446]
8. “Theoretical Investigations on Mechanical and Ultrasonic Characteristics of Gallium Nitride Semiconductor under High Pressure”, A. K. Prajapati, Sachin Rai, **Pramod Kumar Yadawa**, Emergent Materials, 5 (2022) 1985-1993. Springer [ISSN: 2522-5731, Impact Factor: 1.096]
9. “Mechanical, Elastic, and Thermal Properties of Hexagonal BC_2N Superhard Material”, Navin Chaurasiya, Sachin Rai, **Pramod Kumar Yadawa**, Journal of Scientific Research, 14 (1) (2022) 229-242. [ISSN: 2070-0237]
10. “Investigation of the Effect of Temperature on Ultrasonic, Mechanical and Thermal Properties in Single Silver Nanowire”, **Pramod Kumar Yadawa**, Navin Chaurasiya, Sachin Rai, Aadesh K. Prajapati, Physics and Chemistry of Solid-State Journal, 23 (2022) 285-292. [ISSN: 1729-4428, Impact factor: 1.08]
11. “Investigation of Intermetallic GdFeAl ternary compound by elastic, thermophysical and ultrasonic analysis”, **Pramod Kumar Yadawa**, Sachin Rai, Navin Chaurasiya, Aadesh K. Prajapati, Eurasian Physical Technical Journal, 19 (2022) 105. [ISSN: 1811-1165; Impact Factor: 0.61]
12. “Investigation of temperature dependent elastic, mechanical and thermal properties of M_2CO_2 ($\text{M} = \text{Ti, Zr, Hf}$) Mxenes”, Navin Chaurasiya, Sachin Rai, Aadesh K. Prajapati, **Pramod Kumar Yadawa**, Journal of Scientific Research, 14 (3) (2022) 735-748. [ISSN: 2070-0237]
13. “Elastic, mechanical and thermophysical properties of hexagonal nanostructured Cr_2N compound”, Aadesh K. Prajapati, Navin Chaurasiya, Sachin Rai, **Pramod Kumar Yadawa**, Metallophysics and Advanced Technologies, 44 (9) (2022) 1147-1161. [ISSN: 1024-1809, Impact Factor: 1.2]

2021

14. “Synthesis of TiO_2 nanorods using wet chemical method and their photovoltaic and humidity sensing applications” Navin Chaurasiya, U. Kumar, S. Sikarwar, B. C Yadav, **Pramod Kumar Yadawa**, **Sensors Internationals** 2 (2021) 100095. Elsevier [ISSN: 2666-3511; Elsevier]

15. "Ultrasonic Wave Propagation in Hexagonal SrMnO₃ Compound", Navin Chaurasiya, Sachin Rai, **Pramod Kumar Yadawa**, International Journal of Scientific Research in Science and Technology, 8(1) (2021) 516-522. [ISSN: 2395-6011]
16. "Mechanical and Thermophysical Properties of Mg₃TH₇ (T= Mn, Tc, Re) Complex Hydrides", Sachin Rai, Navin Chaurasiya, **Pramod Kumar Yadawa**, International Journal of Scientific Research in Science and Technology, 8(1) (2021) 282-287. [ISSN: 2395-6011]
17. "Elastic, Mechanical and Thermophysical properties of Single-Phase Quaternary ScTiZrHf High-Entropy Alloy", Sachin Rai, Navin Chaurasiya, **Pramod Kumar Yadawa**, Physics and Chemistry of Solid-State Journal, 22 (2021) 687-697. [ISSN: 1729-4428, **Impact factor: 1.08**]
18. "Effect of doping on elastic and ultrasonic properties of ZnO Nanorods", N. Chaurasiya, S. Rai **Pramod Kumar Yadawa**, Advanced Materials Letters, 12 (2021) 1-6 [ISSN: 0976-3961]

2020

19. "Synthesis of MWCNT/PPY nanocomposite using oxidation polymerization method and its employment in sensing such as CO₂ and humidity" U. Kumar, B. C Yadav, T. Haldar, C. K. Dixit, **Pramod Kumar Yadawa**, Journal of the Taiwan Institute of Chemical Engineers 113 (2020) 419-427. Elsevier [ISSN: 1876-1070; **Impact factor: 5.876**]
20. "Mechanical and thermophysical properties of high-temperature Ir_xRe_{1-x} alloys" N. Yadav, S. P. Singh, A. K Maddheshiya, **Pramod K. Yadawa**, R. R Yadav, **Phase Transitions** 93 (2020) 883-894. [ISSN: 0141-1594; **Impact factor: 1.456**]

2019

21. "Effect of pressure and electrical resistivity on ultrasonic properties of MgB₂ single crystal at low temperatures" Shakti Pratap Singh, **Pramod K. Yadawa**, P. K. Dhawan, A. K. Verma, R. R. Yadav, **Cryogenics** 100 (2019) 105-108. [ISSN: 0011-2275; **Impact factor: 2.226**]
22. "Effect of electrical resistivity on ultrasonic attenuation in FeSe single crystal at low", Shakti Pratap Singh, **Pramod K. Yadawa**, P. K. Dhawan, A. K. Verma, R. R. Yadav, **Journal of Pure and Applied Ultrasonics** 41 (2019) 1-5. [ISSN: 0256-4637]
23. "Ultrasonic Wave propagation in thermoelectric ZrX₂ (X=S, Se) compounds", S. P. Singh, Gaurav Singh, A. K. Verma, **Pramod K. Yadawa**, R. R. Yadav, **Pramana-J. Phys.** 98 (2019) 83. [ISSN: 0304-4289; **Impact factor: 2.669**]

2018

24. "Ultrasonic wave propagation in ternary intermetallic CeCuGe compound" A. Jaiswal, **Pramod K. Yadawa**, R. R. Yadav, **Ultrasonics** Vol. 89(2018) 22-25 [ISSN: 0041-624X, **Impact factor: 4.062**]
25. "Elastic and acoustic properties of hexagonal intermetallic ternary compound", **Pramod K. Yadawa**, **Journal of Pure and Applied Ultrasonics**, 40 (2018) 16-21.

[ISSN: 0256-4637]

2017

26. "Elastic and Ultrasonic Properties of Hexagonal Niobium Nitride Compound", **Pramod K. Yadawa, Journal of Advanced Physics**, 6 (2) (2017) 279-283. (American Scientific Publisher).
[ISSN: 2168-1996]
27. "Elastic and Acoustic Properties of Hexagonal M_5Si_3 (M = Ti, Zr) Intermetallic Compounds" **P. K. Yadawa, Journal of Chemistry and Material Research**, 6 (2) (2017) 46-50.
[ISSN: 2381-3628]

2016

28. "Effect of temperature dependence ultrasonic velocities and attenuation of GaP nanowires" **Pramod K. Yadawa, Journal of Theoretical and Applied Physics**, 10, (2016) 203-209 (Springer)
[ISSN: 1735 – 9325; **Impact factor: 1.65**] DOI: 10.1007/s40094-016-0216-x.

2015

29. "Elastic and acoustic properties of XB_2 (X=V, Nb and Ta) transition metal diborides" **Pramod K. Yadawa, Journal of Materials Physics and Chemistry**, 3 (1) (2015) 1-5.
[ISSN: 2333-4436] DOI:10.12691/jmpc-3-1-1
30. "Interplay between acoustic technetium and nitrides" **P. K. Yadawa, Journal of Chemistry and Material Research**, 2(2) (2015) 62-66.
[ISSN: 2381-3628]

2014

31. "Effect of Elastic Constants on the Ultrasonic Properties of Group VIB Transition Metal Diborides" **Pramod K. Yadawa, S. K. Verma, G. Mishra and R. R. Yadav, Journal of Nanotechnology and Advanced Materials**, 2 (1) (2014) 1-9.
[ISSN: 2090-9594]
32. "Characterization of hexagonal Mg and Laves-phase $MgZn_2$ by ultrasonic technique" **P. K. Yadawa, African Review of Physics**, 9 (2014) 27-32.
[ISSN: 2223-6589; **Impact factor: 0.194**]
33. "Elastic and Acoustic properties of hexagonal Cr_2Nb compound", **Pramod K. Yadawa, Journal of Molecular and Engineering Materials**, 2 (4) (2014) 145301 (1-6).
[ISSN: 2090-9594]
34. "Non-destructive characterization of superionic conductor: lithium nitride" **P. K. Yadawa, Material Science -Poland**, 32 (4) (2014) 626-632, DOI: 10.2478/s13536-014-0238-5.
[ISSN: 2083-1381, **Impact Factor: 1.278**]
35. "Computation of acoustic wave propagation in II-VI hexagonal semiconductor" **P. K. Yadawa, Journal of Chemistry and Material Research**, 1(3) (2014) 65-70.
[ISSN: 2381-3628]

2013

36. "Study of Copper/Palladium Nanoclusters using Acoustic Particle Sizer" G. Mishra, S. K. Verma, Devraj Singh, **Pramod K. Yadawa** and R. R. Yadav, **Platinum Metals Review**, 57 (3) (2013) 186-191.
[ISSN: 0032-1400, **Impact Factor: 2.194**]
37. "Acoustic Wave Propagation in Hexagonal MgTe, ZnTe and CdTe Compounds", **Pramod K. Yadawa**, **Communications in Applied Sciences**, 1 (2013) 47-58.
[ISSN: 2201-7372]
38. "Elastic and acoustic properties of intermetallic nanostructure SrGa₂ compound", **Pramod K. Yadawa**, **Nano Science & Nano Technology -An Indian Journal**, 7 (6) (2013) 205-208.
[ISSN: 0974-7494]
39. "Elastic and Acoustic Properties of Hexagonal MnB₂, TcB₂ and ReB₂ Compounds", **Pramod K. Yadawa**, **Journal of Advanced Physics**, 2, (2013) 111-115.
[ISSN: 2168-1996]

2012

40. "Computational study of ultrasonic parameters of hcp transition metals Fe, Co and Ni", **Pramod K. Yadawa**, **The Arabian Journal for Science and Engineering**, 37 (2012) 255-262.
[ISSN: 1319-8025, DOI: 10.1007/s13369-011-0153-6; **Impact Factor: 2.334**]
41. "Acoustic wave propagation in semiconductor ZnTe nanoparticles", **Pramod K. Yadawa**, **Nano Science & Nano Technology -An Indian Journal**, 6 (2012) 14-17.
[ISSN: 0974-7494]
42. "Ultrasonic Characterization of Superhard Material: Osmium Diboride", **P. K. Yadawa**, IOP Conf. Series: Materials Science and Engineering 42 (2012) 012034.

2011

43. "Acoustic wave propagation in Ni₃R(R=Mo, Nb, Ta) compounds", **Pramod K. Yadawa**, **Pramana-J. Phys.**, 76 (4) (2011) 613-619.
[ISSN: 0304-4289, **Impact factor = 2.669**]
44. "Ultrasonic wave propagation in cadmium chalcogenides (CdS, CdSe and CdTe) compounds", **Pramod K. Yadawa**, **Multidiscipline Modeling in Materials and Structures**, 7 (1) (2011) 63-72 (*China*).
[ISSN: 1573-6105; **Impact factor: 2.655**, DOI: 10.1108/15736101111141449]
45. "Behaviour of ultrasonic velocities and elastic constants in Ag-Zn alloys", **Pramod K. Yadawa**, **Advanced Materials Letters**, 2 (2) (2011) 157-168.
[ISSN: 0976-3961, DOI: 10.5185/amlett.2010.12190] **Impact Factor: 1.15**
46. "Computations of ultrasonic parameters in Zr_{100-x}Sn_x alloys", **Pramod K. Yadawa**, **Physics Research International**, 2011 (2011) 1-7.
[DOI: 10.1155/2011/350540; **Impact factor: 1.316**]
47. "Ultrasonic characterization of ceramic material titaniumdiboride", **Pramod K. Yadawa**, **Ceramics-Silikaty**, 55 (2011) 127-133.
[ISSN: 0862-5468, **Impact Factor: 1.188**]

48. "Synthesis and ultrasonic characterization of Cu/PVP nanoparticles-Polymer suspensions", G. Mishra, S. K. Verma, Devraj Singh, **Pramod K. Yadawa** and R. R. Yadav, **Open Journal of acoustics**, 1 (2011) 9-14.

[ISSN: 2162-5794; Impact Factor: 0.6, DOI: 10.4236/oja.2011]

49. "Acoustic wave propagation in nanocrystalline RuCo alloys", **Pramod K. Yadawa**, Devraj Singh, D. K. Pandey, Giridhar Mishra, R. R. Yadav, **Advances in Material Physics and Chemistry**, 1(2011) 14-19.

[ISSN: 2162-5328; DOI: 10.4236/ampc.2011.12003]

2010

50. "Ultrasonic study of Au-nanoparticles-liquid suspensions", **Pramod K. Yadawa** and R. R. Yadav, **Nano Science & Nano Technology -An Indian Journal**, 4 (2010) 86-91.

[ISSN: 0974-7494]

51. "Elastic and acoustic properties of nanocrystalline Ni and Mg-doped hexagonal close-packed Ni nanoparticles", **Pramod K. Yadawa**, **Nano Science & Nano Technology -An Indian Journal**, 4(2010) 110-114.

[ISSN: 0974-7494]

52. "Effect of Platinum Addition in Coinage Metals on its ultrasonic properties", Devraj Singh and **Pramod K. Yadawa**, **Platinum Metals Review**, 54 (3) (2010) 172-179.

[ISSN: 0032-1400; doi: 101595/147106710X500602, **Impact Factor: 2.194**]

53. "Effect of electrical resistivity on ultrasonic attenuation in NpTe", Devraj Singh, **Pramod K. Yadawa** and S. K. Sahu, **Cryogenics**, 50 (2010) 476-479.

[ISSN: 0011-2275; doi: 10.1016/j-cryogenics.2010.04.005; **Impact factor: 2.226**]

54. "Computation of Ultrasonic properties of Lanthanides Metals Ti, Zr and Hf", **Pramod K. Yadawa**, Devraj Singh, D. K. Pandey, R. R. Yadav and Giridhar Mishra, **Turkish Journal of Physics**, 34 (2010) 23-31.

[ISSN: 1300-0101, doi: 10.3906/fiz-0902-7, **Impact Factor: 0.72**]

2009

55. "Ultrasonic Study of Intermediate-valent Intermetallic YbAl₂ at different temperature" **Pramod K. Yadawa** and R. R. Yadav, **Multidiscipline Modeling in Materials and Structures**, 5 (1) (2009) 59-76 (**China**).

[ISSN: 1573-6105; **Impact factor: 2.655**]

56. "Attenuation of ultrasonic waves in V, Nb and Ta at low temperatures" Devraj Singh, D. K. Pandey, **Pramod K. Yadawa** and Anil Kumar Yadav, **Cryogenics**, 49 (2009) 12-16.

[ISSN: 0011-2275; doi: 10.1016/j.cryogenics.2008.08.008; **Impact factor: 2.226**]

57. "Ultrasonic wave propagation in rare-earth monochalcogenides", Devraj Singh D. K. Pandey and **Pramod K. Yadawa**, **Central European Journal of Physics**, 7 (2009) 198-205.

[ISSN: 1895-1082; doi: 10.2478/6 11534-008-0130-1, **Impact factor = 1.361**]

58. "Ultrasonic Study of Osmium and Ruthenium", D. K. Pandey, Devraj Singh and **Pramod K. Yadawa**, **Platinum Metals Review**, 9 (2) (2009) 91-97.

[ISSN: 0032-1400; doi: 10.1595/147106709X430927, **Impact Factor: 2.194**]

59. "Elastic and Acoustic Properties of Heavy Rare-Earth Metals", **Pramod K. Yadawa**, D. K. Pandey, Devraj Singh and R. R. Yadav, **The Open Acoustic Journal**, 2 (2009) 61-67.
[ISSN: 1874-8376]

2008

60. "Anharmonic properties of MgB₂", **Pramod K. Yadawa** and R. R. Yadav, **Materials Science-An Indian Journal**, 4(3) (2008) 193-195.

[ISSN: 0974-7486]

61. "Ultrasonic Properties of Nanoparticles-Liquid Suspensions", R. R. Yadav, Giridhar Mishra, **Pramod K. Yadawa**, S. K. Kor A. K. Gupta and Baldev Raj, T. Jayakumar, **Ultrasonics**, 48 (2008) 591-593.

[ISSN: 0041-624X; doi: 10.1016/j.ultras.2008.06.008; **Impact factor: 4.062**]

2007

62. "Acoustic Wave Propagation in Laves-Phase Compounds", D. K. Pandey, **Pramod K. Yadawa** and R. R. Yadav, **Materials Letters**, 61 (2007) 4747–4751 (**Netherlands**).

[ISSN: 0167-577X; doi: 10.1016/j.matlet.2007.03.031, **Impact factor = 3.574**]

63. "Ultrasonic Properties of Hexagonal ZnS at Nanoscale", D. K. Pandey, **Pramod K. Yadawa** and R. R. Yadav, **Materials Letters**, 61 (2007) 5194–5198 (**Netherlands**).

[ISSN: 0167-577X; doi: 10.1016/j.matlet.2007.04.028, **Impact factor = 3.574**]

64. "Ultrasonic velocity and absorption measurements in lyotropic liquid crystal systems", D. K. Pandey, Devraj Singh, **Pramod K. Yadawa** and R. R. Yadav, **Macromolecule-An Indian Journal**, 3(3) (2007) 75-78.

[ISSN: 0974-7478]

65. "Ultrasonic Studies Of CTAB/Decanol/Water Systems", D. K. Pandey, Devraj Singh, **Pramod K. Yadawa** and R. R. Yadav, **Macromolecule-An Indian Journal**, 3(3) (2007) 79-83.

[ISSN: 0974-7486],

2005

66. "Characterization of CdS and CdSe by ultrasonic technique", **Pramod K. Yadawa**, D. K. Pandey and R. R. Yadav, **J. Acous. Soc. India**, 33 (2005) 186-192.

[ISSN: 0973-3302]

67. "High Temperature Anharmonic Properties of InN", A. K. Yadav, **Pramod K. Yadawa**, R. R. Yadav and D. K. Pandey, **J. Acous. Soc. India**, 33 (2005) 193-199.

[ISSN: 0973-3302]

68. "Ultrasonic Investigations in Particles-Reinforced Nanofluids", R. R. Yadav, **Pramod K. Yadawa**, A. K. Gupta and D. K. Pandey, **J. Acous. Soc. India**, 33 (2005) 219-222.

[ISSN: 0973-3304]

Papers presented and published in the proceeding of the conferences

- [1] "Ultrasonic study of Intermediate-valent Intermetallic YbAl_2 at low temperature"
P. K. Yadawa and R. R. Yadav
National Symposium on Ultrasonics (XV-NSU) (2006) held at Allahabad University, India.
- [2] "Nondestructive Characterization of Cu Nanoparticles Reinforced PVA Solution"
Giridhar Mishra, **P. K. Yadawa** and R. R. Yadav & T. Jayakumar and Baldev Raj
National Symposium on Ultrasonics (XV-NSU) (2006) held at Allahabad University, India.
- [3] "Ultrasonic Study of GaN, AlN and InN"
D. K. Pandey, **P. K. Yadawa** and R. R. Yadav
National Symposium on Ultrasonics (XV-NSU) (2006) held at Allahabad University, India.
- [4] "Ultrasonic study of Hexagonal Lanthanides Metals Ti, Zr and Hf"
P. K. Yadawa, D. K. Pandey, Devraj Singh and R. R. Yadav
National Symposium on Ultrasonics (XVII-NSU) (2008) held at Banaras Hindu University, Varanasi, India.
- [5] "Ultrasonic study of Osmium and Ruthenium"
D. K. Pandey, Devraj Singh, **P. K. Yadawa** and R. R. Yadav
National Symposium on Ultrasonics (XVII-NSU) (2008) held at Banaras Hindu University, Varanasi, India.
- [6] "Ultrasonic Attenuation in NPX (X: S, Se and Te)"
D. K. Pandey, Devraj Singh, **P. K. Yadawa** and R. R. Yadav
National Symposium on Ultrasonics (XVII-NSU) (2008) held at Banaras Hindu University, Varanasi, India.
- [7] "Ultrasonic study of Hexagonal Lanthanides Metals"
P. K. Yadawa, D. K. Pandey and Devraj Singh
National Symposium on Acoustics (NSA-2008) held at Naval Science and Technological Laboratory (DRDO), Visakhapatnam, India.
- [8] "Ultrasonic Properties of Hexagonal Nanocrystalline ZnO and BeO"
P. K. Yadawa, Devraj Singh and S. K. Sahu
National Symposium on Ultrasonics (XVIII-NSU) (2009) held at VIT University, Vellore, Tamil Nadu, India.

Papers presented in conferences and abstract published

- [1] "Ultrasonic Characterization of Nanoparticles Suspended in Polymer Solution"
P. K. Yadawa, D. K. Pandey, R. R. Yadav and A. K. Gupta
National Conference on Advanced Characterization Techniques on Nanomaterials (ACTON-2005) held at IIT Roorakee, India.
- [2] "Ultrasonic Properties of Hexagonal Zinc Sulphide"
P. K. Yadawa, R. R. Yadav and D. K. Pandey
National Symposium on Ultrasonics (XIV-NSU) (2005) held at N. P. L. New Delhi, India.

- [3] "Ultrasonic Characterization of Lyotropic Liquid Crystal formed by Bile Salt"
R. R. Yadav, D. K. Pandey and **P. K. Yadawa**
National Symposium on Ultrasonics (XIV-NSU) (2005) held at N.P. L. New Delhi, India.
- [4] "Temperature Dependency of Higher Order Elastic Constants and Ultrasonic Attenuation in CdS and CdSe"
P. K. Yadawa, D. K. Pandey and R. R. Yadav
National Symposium on Acoustics (NSA-2005) held at Bangalore, Karnataka, India.
- [5] "High Temperature Anharmonic Properties of InN"
A. K. Yadav, **P. K. Yadawa**, R. R. Yadav and D. K. Pandey
National Symposium on Acoustics (NSA-2005) held at Bangalore, Karnataka, India.
- [6] "Ultrasonic Investigations in Particles-Reinforced Nanofluids"
R. R. Yadav, **P. K. Yadawa**, A. K. Gupta and D. K. Pandey
National Symposium on Acoustics (NSA-2005) held at Bangalore, Karnataka, India.
- [7] "Temperature and Orientation Dependent Ultrasonic Properties of AlN"
R. R. Yadav, D. K. Pandey and **P. K. Yadawa**
Second M. P. Science Congress-2005 (SMPSC-2005) held at Bhopal, India.
- [8] "Ultrasonic Study of Lyotropic Liquid Crystal Systems based on N-Cetyl –N, N, N- Trimethyl Ammonium Bromide"
R. R. Yadav, **P. K. Yadawa** and D. K. Pandey
17th AGM-MRSI Secretariat (2005) held at Lucknow, India.
- [9] "Nonlinear elastic properties of Laves-Phase Compounds"
P. K. Yadawa, R. R. Yadav and D. K. Pandey
National Academy of Sciences, India (2006) held at IIT, Mumbai, India.
- [10] "Temperature and Orientation Dependent Ultrasonic Properties of AlN"
R. R. Yadav, D. K. Pandey and **P. K. Yadawa**
National Symposium on Acoustics (NSA-2006) held at N. P. L New Delhi, India.
- [11] "Anharmonic Properties of MgB₂"
P. K. Yadawa and R. R. Yadav
National Symposium on Acoustics (NSA-2006) held at N. P. L New Delhi, India.
- [12] "Ultrasonic study of lyotropic liquid crystal formed by Bile salts"
R. R. Yadav, D. K. Pandey and **P. K. Yadawa**
International Conference on Liquid Crystals (ICLC - 2006) held at Mumbai, India.
- [13] "Ultrasonic properties of hexagonal ZnS at nanoscale"
D. K. Pandey, **P. K. Yadawa** and R. R. Yadav
International Workshop on Advanced Materials and Technologies for Nano and Oxide Electronics (AMTNOE 2007) held at I. I. T New Delhi.
- [14]] "NDT of Sodium Tauro-Cholate / water system"
D. K. Pandey, Devraj Singh, P. K. Yadawa and R. R. Yadav
National conference on Scientific Applications of Mathematics (NACSAM-2007) held at Bhaewari, Kaushambi.
- [16] "Ultrasonic study of Hexagonal Lanthanides Metals Ti, Zr and Hf"
P. K. Yadawa, D.K. Pandey, Devraj Singh and R. R. Yadav

National Symposium on Ultrasonics (XVII-NSU) (2008) held at Banaras Hindu University, Varanasi, India.

[17] "Ultrasonic study of Hexagonal Lanthanides Metals"

P. K. Yadawa, D. K. Pandey and Devraj Singh

National Symposium on Acoustics (NSA-2008) held at Naval Science and Technological Laboratory (DRDO), Visakhapatnam, India.

[18] "Ultrasonic Properties of Hexagonal Nanocrystalline ZnO and BeO"

P. K. Yadawa, Devraj Singh and S. K. Sahu

National Symposium on Ultrasonics (XVIII-NSU) (2009) held at VIT University, Vellore, Tamil Nadu, India.

[19] "Ultrasonic Characterization of Superhard Material: Osmium Diboride"

Pramod Kumar Yadawa

International Symposium on Ultrasound Control of industrial Process (UCIP-2012) held at Madrid, Spain during 18-20 April, 2012.

[20] "Advances in Non-destructive characterization of the hexagonal boron nitride nanotubes"

Pramod Kumar Yadawa

India International Science Festival (IISF -2015) held at IIT Delhi during 4-8 December, 2015.

[21] "Elastic and acoustic properties of hexagonal intermetallic ternary compound "

Pramod Kumar Yadawa

India International Science Festival (IISF -2016) held at NPL Delhi during 7-11 December, 2016.

[22] "Non-destructive characterization of ternary compounds"

Pramod Kumar Yadawa

National Seminar on New Materials and Applications (NSNMA-2018) held on October 13, 2018 at Allahabad University, Prayagraj.

[23] "Mechanical and Thermophysical Properties of Complex Hydrides"

Pramod Kumar Yadawa

National Seminar on RECENT ADVANCES IN MATERIAL SCIENCE AND NANOTECHNOLOGY (RAMAN-2021) held on February 7-9, 2021 organised by Department of Physics, Arts, Commerce & Science College, Maregaon.

[24] Mechanical and Thermophysical Properties of ceramics nanomaterials

Pramod Kumar Yadawa

International Conference on Diverse Emerging Materials and their applications (ICDEMA-2021) held on March, 14-16, 2021 organized by Department of Physics, University of Lucknow

[25] "Mechanical and thermophysical properties of nanostructured thin film"

Pramod Kumar Yadawa

National conference on Advances research trends in engineering (NCARTE-2022) held on March, 25-27, 2022 organised SRM Samrak College of Eng. And tech., Bareilly.

[26] “Non-Destructive characterization of Nanotube” Prashant Srivastav, A. K. Prajapati,

Pramod Kumar Yadawa

National Conference on “Study of Nanomaterials and Scientific Development in 21st Century” to be organized by Jiwaji University, Gwalior & Academy of Microscope Science and Technology, India, March 16-18, 2023.

[27] “Synthesis and characterization of TiO₂-reduced graphene oxide (r-GO) nanocomposites and their LPG sensing applications”. **Pramod Kumar Yadawa**. N. Chaurasiya, B. C. Yadav

8th National Conference on Advances in Metrology (AdMet-2023), organized by BARC, Mumbai during March 23-25, 2023.

Book Chapters:

1. “Ultrasonic study of Hexagonal Lanthanides Metals Ti, Zr and Hf” Pramod K. Yadawa et al. **ULTRASONICS** (Edited by P. C. Mishra, R. K. Singh, Shri Singh, N. F. Declercq) pp. 338 (2008) Macmilian Publisher India Ltd. ISBN 10: 0230-63689-8, ISBN 13: 978-0230-63689-7.
2. “Ultrasonic study of Platinum Group Metals” Pramod K. Yadawa et al. **ULTRASONICS** (Edited by P. C. Mishra, R. K. Singh, Shri Singh, N. F. Declercq) pp. 291 (2008) Macmilian Publisher India Ltd. ISBN 10: 0230-63689-8, ISBN 13: 978-0230-63689-7.

Invited talk delivered/Chaired session/Resource person in conferences/ seminars/ workshops (Recently):

1. Participated as a panel member in the National Science Congress (India International Science Festival IISF-2020) during 22th -25th December, 2020.
2. Participated and chair one session in ATAL Training and Learning Academy online FDP on “Cyber Security” at Galgotiya College of Engineering and Technology during 5th-9th October, 2020.
3. Participated and chair a session in the Online International Conference on Advances in Physical, Mathematical & Computational Sciences” organized by the Faculty of Physical Sciences, St. Aloysius’ College (Autonomous), Jabalpur during 12th-13th Jun, 2020.
4. Delivered an invited talk “Non-Destructive characterization of Nanomaterials and its sensing application” in National Conference on “Study of Nanomaterials and Scientific Development in 21st Century” to be organized by Jiwaji University, Gwalior & Academy of Microscope Science and Technology, India, March 16-18, 2023.

Dr. Pramod Kumar Yadawa

Department of Physics

Prof. Rajendra Singh (Rajju Bhaiya) Institute
of Physical Sciences for Study and Research
Veer Bahadur Singh Purvanchal University, Jaunpur