Curriculum Vitae



Prof. (Dr.) Pramod Kumar Yadawa
Professor & Head, Department of Physics

Dean, Students' Welfare (DSW)
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 : pkyadawa@gmail.com, pkyadawa@vbspu.ac.in
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*

Guide Name: Prof. Raja Ram Yadav
University: University of Allahabad, Pryagraj
Year of Award: 2007

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

Teaching Experience: 19 Years

S No	Period	Place of Employment	Designation	Scale of pay (Rs.)
1.	2005-2007	University of Allahabad	Guest Faculty	
2.	1st Aug. to 17th Dec., 2007.	H. M. R. Institute of Technology & Management, Delhi	Lecturer	8000-13500 (Rs. 21500)
3.	18th Dec. 2007.to 14th Sept., 2018	Amity School of Engineering and Technology, Bijwasan, New Delhi	Assistant Professor (8000AGP)	15600-37500 (AGP-8000) [Rs. 71482]
4.	15th Sept. 2018 to 12 April, 2022	Prof. Rajendra Singh (Rajju Bhaiya) Institute of Physical Sciences for Study and Research, Veer Bahadur Singh Purvanchal University, Jaunpur (U.P)	Associate Professor	131400-217100 Academic Level 13A [Total Rs. 237000]
4.	13th April, 2022 to till date	Prof. Rajendra Singh (Rajju Bhaiya) Institute of Physical Sciences for Study and Research, Veer Bahadur Singh Purvanchal University, Jaunpur (U.P)	Professor	144200-218200 Academic Level 14 Basic: Rs. 172200 [Total Rs. 3,11,061]

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 (13-04-2022)**
2	Thermal and Ultrasonic properties of Nanostructured Materials	Aadesh Kumar Prajapat	V. B. S Purvanchal University	**Awarded (26-08-2023)**
2	Study of functional Materials using Ultrasonic Nondestructive testing	Sachin Rai	V.B.S. Purvanchal University	**Awarded (29-05-2024)**
4	Ultrasonic Non-Destructive Characterization of Emerging Materials for Industrial Applications	Prashant Srivastav	V. B. S Purvanchal University	Ongoing since March, 2023

5	Development of Ionic Liquid Based Gel Polymer Electrolytes for Hybrid Battery-Supercapacitor	Vivek Chaurasiya	V. B. S Purvanchal University	Ongoing since March, 2023
6	Non-Destructive Evaluation of Advanced Materials and its Application in Aerosols Study	Adwitiya Yadav	V. B. S Purvanchal University	Ongoing since March, 2023
7	Thermal and Ultrasonic Characterization of Advanced Functional Materials	Udeep Narayan Yadav	V. B. S Purvanchal University	Ongoing since March, 2026
8	Ultrasonic Non-destructive Characterization of Smart Materials and their Industrial Applications	Anchal Mishra	V. B. S Purvanchal University	Ongoing since March, 2026

Research Projects Ongoing:

S.No.	Title (with specific period)	Agency	Period
1	Development and Non-destructive characterization of ceramics nanomaterials for biomedical applications	IQAC, VBSPU	1 Year (2022-23)
2	Synthesis and Non-destructive Characterization of Advanced Functional Nanomaterials for Industrial Applications	Uttar Pradesh Higher Education Council (R&D)	3 Years (2022-2025)
3	Development and performance optimization of nanostructured metal oxide-based composites for humidity sensing applications	Uttar Pradesh Higher Education Council (Center of Excellence)	3 Years (2024-2027)

Administrative Experience:

- **Dean, Students' Welfare (DSW)**- Veer Bahadur Singh Purvanchal University, Jaunpur from **29th April 2025 to till date**.
- **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 & **7th June, 2023 to 15th June, 2026**.
- **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 & **27th June, 2023 to till date**.
- **Member-Academic Council**, Veer Bahadur Singh Purvanchal University, Jaunpur from 28th September, 2018 to till date.

- **Member- Research Prevention Committee** (VBSPU) 2021 to till date
- **Convenor-** Ph.D. Supervisor committee
- **Convenor/ Nodal Officer-** SWAYAM VBSPU
- **Co-Ordinator-**Ph. D. Couse work 2022-23, VBSPU
- **Member**-Purchase verification committee
- **Member**- Departmental Research Progress Committee (2018-2022)
- **Member**- Departmental Cultural, sports and Students Related Activities Committee Member (2018- 22)
- Member- Departmental Safety & Security Committee (2018-24)
- Member-Institutional Research Progress Committee Member (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. (2018-2024)
- 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) by AMITY University
- Ist 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 Fellow**- Ultrasonic Society of India **(USI) LF-114**
- **Life Member**- Ultrasonic Society of India **(USI) LM-304**
- **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, 2023. 2024**
- **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 Applications

- **Reviewers:** Material Letters (Elsevier), Ultrasonics (Elsevier), Cryogenics (Elsevier), High Temperature (Springer), Journal of Pure and Applied Ultrasonics, MAPAN (Springer), Zeitschrift für Naturforschung A (ZNA), Phase transitions (Taylor & Francis) etc.
- **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
- **Convenor & Chairman**- International Conference on Advancement of Functional Materials 2024 (ICAFM-2024).
- **Examiners Ph. D**. works in RTM University, Nagpur, D.D. U. University, Gorakhpur, SWAYATS, Naini, Prayagraj, Uttar Pradesh
- 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

Organising seminars/ conferences/ workshops, other college/university activities.

1	**Chairman & Convenor**- International Conference on Advancement in Functional Materials 2024 (ICUMSAT-2024)
2	**Chairman**- International Conference on Electronics, Computer, Physical and Chemical Sciences ICECPCS 2024
3	**Director (Organizing Committee)**- International Conference on Ultrasonics and Material Science for Advanced Technology 2019 (ICUMSAT-2019)
4	**Co-convener:** Rastra ke Punarnirman me Buddhidharmi jano ki bhoomioka 2019
5	**Organizing Committee Member-** Akatm manav darshan ka yugbodh 2019
6	**Organizing Committee Member-** National Youth Day 2019
7	**Organizing Committee Member-** International e-Conference on Advanced Functional Materials and Optoelectronic Devices (June 13-15, 2020)
8	**Organizing Committee Member-** Webinar on "Aazadi me Vigyan Sancha" 26-09-2020
9	**Organizing Committee Member-**Rajju Bhaiya Smriti Vakhyanmala 2019,2020,2021, 2022, 2023, 2024, 2025
10	**Organizing Committee Member-** Inspire Science Camp-2020

11	**Organizing Committee Member-** "Swasthya Shishu Pratiyogita" 09-07-2021
12	**Organizing Committee Member-** Webinar on "Career Opportunity in Mathematics" 11-09-2021
13	**Organizing Committee Member-** Convocation 2019, 2020, 2021, 2022, 2023, 2024
14	**Organizing Committee Member-** Job Fair-2020
15	**Convenor** - National Science Day 2024, 2025, 2026
16	**Convenor-** SWAYAM Workshop 2025

Design of new curricula and courses

1	Design of New Curricular and courses (32 no. of curriculum) M.Sc. (Physics) all four semesters
2	Design of New Curricular and courses (4 no. of curriculum) Ph. D. (Physics)

Awards/Fellowship Received

- Best Teacher Award (2017) by AMITY University
- **Visiting Research Fellow**, Centre for Theoretical Studies at Indian Institute of Technology, Kharagpur
- Shishak Samman-2021 (VBSPU)
- Shishak Samman-2022 (VBSPU)
- Shishak Samman-2023 (VBSPU)
- Best paper award (National Conference on "Study of Nanomaterials and Scientific Development in 21st Century" to be organized by Jiwaji University, Gwalior March 16-18, 2023).

Research Publications/ Invited Talks/ Presented Papers/Patents:

1. Number of research paper published in reviewed journals: **81**
2. Number of research paper published in international conferences: **15**
3. Papers presented in conferences and abstract published: **35**
4. Patents: **4**

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

2026

1. "Pressure- Dependent Elastic, Mechanical and Ultrasonic Characteristics of a Cobalt Hydeide Composite", Vivek Chaurasiya, Adwitiya Yadav, Udeep Narayan Yadav, Manoj K. Singh, **Pramod Kumar Yadawa,** Journal of Pure and Applied Ultrasonics, 48 (1) (2026) Accepted [ISSN: 0256-4637].

2. "Pressure- Induced Modulation of Electronic, Elastic and Optical Traits in Hexagonal La2O3 for Advanced Solid-State Battery Cathode Frameworks.", Vivek Chaurasiya, Adwitiya Yadav, Udeep Narayan Yadav, Manoj K. Singh, **Pramod Kumar Yadawa,** VNU Journal of Science: Mathematics-Physics, 42 (3) (2026) Accepted [ISSN: 2615-9341].

2025

3. "A Comparative Analysis of Elastic, Mechanical, and Thermoelectric Properties in Mg2Y (Y= Si, Ge and Sn) Semiconducting Nanomaterials", Adwitiya Yadav, Prashant Srivastav, **Pramod Kumar Yadawa**, **El-Cezeri: Journal of Science and Engineering**, 12, No. 3 (2025) 283-297. [ISSN: 2148-3736, **Impact factor:**1.00]

4. "Theoretical prediction of pressure-dependent Elastic, Ultrasonic properties, and Thermo-physical properties of Zinc Metal", P. Srivastav, A. Yadav, **Pramod Kumar Yadawa**, **Adıyaman University Journal of Science**, 15, No. 2 (2025) 228-244. **Impact factor:0.321** [ISSN: 2147-1630]

5. "Quasi-Solid-State Supercapacitor Using Redox Additive", Vivek Chaurasiya, **Pramod Kumar Yadawa**, Sushama Yadav, Ankus Kumar Rajput, Sailendra Badal, Pramod Kumar, Sujeet Kumar Chaurasia, Manoj K Singh, **Macromolecular Symposia**, 414, No. 4 (2025) e70093.

6. "Theoretical investigation of the mechanical, and thermophysical properties of mechanoluminescence material with partial replacement of li in lixzn1−xo:nd3+ ($0 \leq x \leq 0.44$),", P. Srivastav, A. Yadav, **Pramod Kumar Yadawa**, **Ukrainian Journal of Physics**, 70, No. 11 (2025) 805-813. [ISSN: 2071-0194] **Impact factor:0.7**

7. "Pressure- dependent variations in elastic, mechanical, and ultrasonic characteristics of intermetallic Ti_3Sn Compound", Adwitiya Yadav, Prashant Srivastav, **Pramod Kumar Yadawa,** Journal of Pure and Applied Ultrasonics, 47 (3) (2025) 45-53 [ISSN: 0256-4637].

8. "Theoretical Investigation on Elastic, Thermal and Ultrasonic Properties of Nanostructured HfN Layers Growth on MgO (001) substrate, Prashant Srivastav, **Pramod Kumar Yadawa, Physics and Chemistry of Solod State**, 26, No. 1 (2025) 181-189. [ISSN: 1729-4428, **Impact factor: 1.08**]

2024

9. 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) 125-134 [ISSN: 1994- 7607**,** Impact Factor: **0.5**]
10. " Pressure-induced variations in the elastic, mechanical, and ultrasonic characteristics of intermetallic UPd_3" P. Srivastava, S. Rai, N. Chaurasiya, **Pramod Kumar Yadawa,** Journal of Pure and Applied Ultrasonics, 46 (2) (2024) 3-12 [ISSN: 0256-4637].

2023

11. "High sensitive room temperature liquid petroleum gas (LPG) sensor with fast response based on TiO_2 reduced graphene oxide composite" N. Chaurasiya, A. Singh, K. Kumar, B.C. Yadav, **Pramod Kumar Yadawa,** S. K. Singh, K. K. Dey, **Sensor and Diagnostics** (RSC), 2 (2023) 1215-1227. https://doi.org/10.1039/D2SD00223J [ISSN: 1063-7834, Impact Factor: 3.2]

12. "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,** 2 (3) **(**2023) 253-258. https://doi.org/10.1016/j.chphma.2023.02.003 [ISSN: 0975-1041, Elsevier]
13. "Effect of temperature on elastic, mechanical and thermophysical properties of VNx ($0.76 < x < 1.00$) 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: 1**.657**]
14. "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) 123-128. Springer [ISSN: 1063-7834, Impact Factor: **0.849**]
15. "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, 26 (5) (2023) 495-504. Springer [ISSN: 1029-9599, Impact Factor: **2.025**]

16. "Pressure Dependent Elastic, Mechanical and Ultrrasonic 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**]
17. "Theoretical investigation on thermophysical, mechanical and ultrasonic properties of NbN Layers Deposited on MgO (001) substrate under high temperature, A. K. Prajapati, V. Chaurasiya, **Pramod Kumar Yadawa,** Journal of High Temperature, 61 (2023) 806-813. [ISSN: 1608-3156, Impact Factor: **1.5]**
18. "Theoretical investigation on the effect of pressure on mechanical thermos physical and ultrasonic properties of La_2CO_3" P. Srivastava, A. Yadav, A. K. Prajapati, **Pramod Kumar Yadawa,** Journal of Pure and Applied Ultrasonics, 45 (3) (2023) 79-87 [ISSN: 0256-4637].

2022

19. "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**]
20. "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**]
21. "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]
22. "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**]

23. "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]**
24. "Investigation of temperature dependent elastic, mechanical and thermal properties of M_2CO_2 (M= 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]
25. "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

26. "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**]

27. "Ultrasonic Wave Propagation in Hexagonal $SrMnO_3$ 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]

28. "Mechanical and Thermophysical Properties of Mg_3TH_7 (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]

29. "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**]

30. "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

31. "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**]

32. "Mechanical and thermophysical properties of high-temperature IrxRe1−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

33. "Effect of pressure and electrical resistivity on ultrasonic properties of MgB_2 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**]

34. "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]

35. "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

36. "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**]
37. "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

38. "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]
39. "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

40. "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

41. "Elastic and acoustic properties of XB2 (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
42. "Interplay between acoustic technetium and nitrides" **P. K. Yadawa**, **Journal of Chemistry and Material Research, 2**(2) (2015) 62-66.
[ISSN: 2381-3628]

2014

43. "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]
44. "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**]
45. "Elastic and Acoustic properties of hexagonal Cr2Nb compound", **Pramod K. Yadawa**, **Journal of Molecular and Engineering Materials,** 2 (4) (2014) 145301 (1-6).
[ISSN: 2090-9594]

46. "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]**

47. "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

48. "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**]

49. "Acoustic Wave Propagation in Hexagonal MgTe, ZnTe and CdTe Compounds", **Pramod K. Yadawa**, **Communications in Applied Sciences,** 1 (2013) 47-58.
[ISSN: 2201-7372]

50. "Elastic and acoustic properties of intermetallic nanostructure $SrGa_2$ compound", **Pramod K. Yadawa,** ***Nano Science & Nano Technology -****An Indian Journal, 7 (6) (2013) 205-208.*
[ISSN: 0974-7494]

51. "Elastic and Acoustic Properties of Hexagonal MnB_2, TcB_2 and ReB_2 Compounds", **Pramod K. Yadawa, Journal of Advanced Physics**, 2, (2013) 111-115.
[ISSN: 2168-1996]

2012

52. "Computational study of ultrasonic parameters of hcp transition metals Fe, Coand 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**]

53. "Acoustic wave propagation in semiconductor ZnTe nanoparticles", **Pramod K. Yadawa,** ***Nano Science & Nano Technology -****An Indian Journal,* ***6*** *(2012) 14-17.*
[ISSN: 0974-7494]

54. "Ultrasonic Characterization of Superhard Material: Osmium Diboride", **P. K. Yadawa,** IOP Conf. Series: Materials Science and Engineering **42** (2012) 012034.

2011

55. "Acoustic wave propagation in Ni_3R(R=Mo, Nb, Ta) compounds", **Pramod K. Yadawa**, **Pramana-J. Phys.**, 76 (4) (2011) 613-619.
[ISSN: 0304-4289, **Impact factor = 2.669**]

56. "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]

57. "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]**

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

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

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[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

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[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.

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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**
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[11] "Anharmonic Properties of MgB_2"
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 TiO_2-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.

Books authored which are published:

S. No.	Title with page Nos. and date of publication	Book Title editor & publisher	ISSN/ ISBN No Publisher	National/ International	N0. of co-authors	Whether you are the main Author
1	Advancement in Functional Materials February, 2024 pp-1-375	Pramod Kumar Yadawa Shree Publishers & Distributors	978-81-19448-43-2	National	2	Yes

Books Chapters:

S. No.	Title with page Nos. and date of publication	Book Title editor & publisher	ISSN/ ISBN No Publisher	National/ International	N0. of co-authors	Whether you are the main Author
1	Ultrasonic study of Hexagonal Lanthanides Metals Ti, Zr and Hf pp. 338 (2008)	**ULTRASONICS** (Edited by P. C. Mishra, R. K. Singh, Shri Singh, N. F. Declercq) Macmilian Publisher India Ltd.	978-0230-63689-7	International	2	Yes

2	Ultrasonic study of Platinum Group Metals pp. 291 (2008)	**ULTRASONICS (**Edited by P. C. Mishra, R. K. Singh, Shri Singh, N. F. Declercq) Macmilian Publisher India Ltd.	978-0230-63689-7	Internatio nal	2	Yes
3	Investigation of the effect of temperature on mechanical and thermal properties of hexagonal transition metal disilicides February, 2024 pp-79-95	Advancement in Functional Materials Pramod Kumar Yadawa et al. Shree Publishers & Distributors	978-81-19448-43-2	National	3	Yes
4	A comparative electrochemical and Thermal Investigation on Polymer gel electrolytes comprising of Lithium Perchlorate Salts in SN	Advancement in Functional Materials Pramod Kumar Yadawa et al.	978-81-19448-43-2	National	2	Yes

	Solvent and PMMA Backbone February, 2024 pp-130-138	Shree Publishers & Distributors				
5	Elastic mechanical and ultrasonic properties of ZrBeSi ternary compound under high pressure February, 2024 pp-145-156	Advancement in Functional Materials Pramod Kumar Yadawa et al. Shree Publishers & Distributors	978-81-19448-43-2	National	2	Yes
6	Non-destructive characterization of two dimensional MoS_2 compound under pressure February, 2024 pp-307-317	Advancement in Functional Materials Pramod Kumar Yadawa et al. Shree Publishers & Distributors	978-81-19448-43-2	National	1	Yes
7	Non-destructive monitoring approach of Aerosols over the Indo-Gangetic Basin during Massive Dust Storms February, 2024 pp-350-368	Advancement in Functional Materials Pramod Kumar Yadawa et al. Shree Publishers & Distributors	978-81-19448-43-2	National	2	Yes

Patent:

1. Published Indian Patent Application: Advanced Functional Material Composition for Energy Storage, Environmental Remediation, and Healthcare Systems. Application No. 202641075252 A. Published in the Indian Patent Office Journal, No. 26/2026, 26 June 2026, pp. 77135.
2. Published Indian Patent Application: Nano Material-Based Biosensors for Rapid Disease Detection. Application No. 202641075252 A. Published in the Indian Patent Office Journal, No. 28/2026, 10 July 2026, pp, 83886.
3. Published Indian Patent Application: Laser-Plasma Interaction System for High Energy Particle Generation. Application No. 202611071440 A. Published in the Indian Patent Office Journal, No. 32/2026, 7 August 2026, pp, .
4.

Workshops, Training, Faculty Development Programs:

Sl. No.	Name of the Course/ Summer School/Professional development programme	Place	Duration	Sponsoring Agency
1	4 Days Training Programme on Academic Leadership	Jaunpur	March 26-29, 2019	V.B.S. Purvanchal Universty, Jaunpur
2	6 Days Training Programme on Academic Leadership	Jaunpur	April 23-29, 2019	V.B.S. Purvanchal Universty, Jaunpur

3	FDP on Recent Advances in Communication and Photonics	Jaunpur	July 8-12, 2019	V.B.S. Purvanchal Universty, Jaunpur
4	FDP on "Cryptography and Cber Security"	Jaunpur	September 14-18, 2019	V.B.S. Purvanchal Universty, Jaunpur
5	FDP on "Recent Advances I Mechanical Engineering"	Jaunpur	November 06-10, 2019	V.B.S. Purvanchal Universty, Jaunpur
6	One week online short term course on "Reliability, Maintainability and quality issues in process industries"	Jalandhar	August 4-8, 2020	TEQIP-3, Dr. B.R. Ambedkar National Institute of Technology, Jalandhar
7	AICTE Training and Learning (ATAL) Academy online elementary FDP on "Cyber Security"	Gautam Budh Nagar	October 5-9, 2020	Galgotias College of Engineering and Technology
8	One-week National workshop on "Vedic Mathematics"	Varanasi	November 17-23, 2020	Banaras Hindu University, Varanasi
9	Faculty Development Programme on "Recent Trends in Materials Science and Engineering"	Gautam Budh Nagar	May 25-31, 2020	Sharda University, Uttar Pradesh
10	Online training programme on "Gender Equality"	Aligarh	March 16 -22., 2021	CALEM, UGC, HRDC, Aligarh Muslim University
11	Five Days FDP on "Smart City: Opportunities and Development"		March 22-26, 2021	ARKA J University, Jharkhand
12	AICTE Training and Learning (ATAL) Academy online elementary FDP on "Nano-Sensors"	Jodhpur	July 5-9, 2021	IIT Jodhpur
13	AICTE Training and Learning (ATAL) Academy online elementary FDP on "Nanotechnology for Electronic and Photonic Devices NanoDev 2021)"	Chandigarh	July 12-16, 2021	Punjab Engineering College (Deemed to be University
14	AICTE Training and Learning (ATAL) Academy online elementary FDP on "Non Destructive Testing and Evaluation"	Srinagar	July 26-30, 2021	National Institute of Technology, Srinagar
15	One week online FDP on "Futuristics Trends in Energy, Material and Manufacturing Technology	Mathura	August 2-6, 2021	Hindustan College of Science and Technology, Mathura
16	AICTE Training and Learning (ATAL) Academy online elementary FDP on "Nanomaterial and Nanotechnology"		September 20-24, 2021	Defence Institute of Advanced Technology

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.
5. Delivered an invited talk "Highly sensitive and fast room temperature LPG sensor based on TiO2 reduced graphene oxide (r-GO) composite and their sensing applications" in16th International Conference on "Advancement in Petrochemical Sector & Empowering Sustainable Development leading to Viksit Bharat APM 2025" organized by CIPET: IPT-Lucknow during March 8-10, 2025.
6. Delivered an invited talk "Nondestructive characterization of nanomaterials and its sensing applications" in National Conference on "Recent Advances in Material Science and Nano-Technology (RAMSAN-2025) organized by K. K. College, Etawah during February 27-28, 2025.
7. Delivered an invited talk "Highly sensitive TiO_2 reduced graphene oxide (r-GO) composite and their sensing applications" in 4th International Conference on "Ultrasonic & Material Science for Advanced Technology ICUMSAT-2025" organized by Eswari Engineering College, Chennai during January 20-22, 2026.
8. Delivered an invited talk "Nondestructive characterization of emerging nanomaterials and its applications" in "Rastriya Hindi Vigyan Sammelan 2026" organized by Bundelkhand University, Jhansi during March 20-22, 2026.

Prof. (Dr.) Pramod Kumar Yadawa

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