

Curriculum Vitae

Dr.PankajBandhoria

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ACADEMIC QUALIFICATION

Year	Degree	Institution	Board/University	Division
2006	Ph.D.	Physics and Electronics Department	Jammu University	Awarded
2002	M.Sc.	Physics and Electronics Department	Jammu University	1 st Div.
1999	B.Sc.	Govt. Degree College Kathua	Jammu University	1 st Div.

NATIONAL/INTERNATIONAL PUBLICATIONS

1. Vivek K. Gupta, **Pankaj Bandhoria**, M. Kalyan, M.Mathews, C.V.Yelamaggad "Crystal structure of a liquid crystalline unsymmetricdimercholesteryl 4-[4-(4-n butylphenylethynyl)-phenoxy]butanoate" Liquid Crystals Vol.32 No. 6, June 2005, 741-747. (U.K.)
Impact Factor-2.84, ISSN:-0267-8292
2. Vivek K. Gupta, **Pankaj Bandhoria**, R.Sharma, M.Mathews, C.V.Yelamaggad "Crystal structure of cholesteryl 4-[4-(4-n hexylphenylethynyl)-phenoxy]butanoate –aliquid crystalline unsymmetric dimmer "Phase Transitions Vol.78 No. 6, June 2005, 481-488. (U.K.)
Impact Factor-1.00, ISSN:-0141-1594
3. **Pankaj Bandhoria**,Vivek K. Gupta, B.D.Gupta and B.Varghese "Crystal structure of 3 β -acetoxy-17 α -hydroxy-16 α -methylallopregnan-20-one hemihydrate" Journal of Chemical CrystallographyVol.36 No. 7, July 2006, 427-433. (U.S.A)
Impact Factor-0.55, ISSN:-1074-1542
4. Vivek K. Gupta,**Pankaj Bandhoria**,B.D. Gupta and K.K. Gupta "Crystal structure of Guggulsterone Z" Crystallography Reports Vol.1 No. 2, March 2006, 292-297. (RUSSIA)
Impact Factor-0.77, ISSN:- 1063-7745
5. **Pankaj Bandhoria**, Vivek K. Gupta and D.K. Gupta "Crystal structure of (25R)-spirost-5-en-3 β -acetate" Analytical Sciences Vol.22, March 2006, 1-2. (JAPAN)
Impact Factor-1.47, ISSN:-0910-6340

6. **Pankaj Bandhoria**, Vivek K. Gupta, D.K. Gupta, S.M. Jain and B. Varghese "Crystal structure of 3 β -acetoxy-pregna-5,16-diene-20-one" Journal of Chemical Crystallography , Vol. 36 No. 3 June 2006, 161-166 (U.S.A)
Impact Factor-0.55, ISSN:-1074-1542
7. **Pankaj Bandhoria**, Vivek K. Gupta, M.Amina,N..K. Satti ,P. Dutt and K.A. Suri . "6 α ,7 α -epoxy-5 α ,17 α -dihydroxy-1-oxo-22R-witha-2,24-dienolide in leaves of Withaniasomnifera: Isolation and its crystal structure" Journal of Chemical Crystallography , Vol. 36 No. 2, 2006, 156-159. (U.S.A)
Impact Factor-0.55, ISSN:-1074-1542
8. **Pankaj Bandhoria**, Vivek K. Gupta, V. K. Sharma, N..K. Satti , P. Dutt and K.A. Suri . "6 α ,7 α : 24 α ,25 α -Diepoxy-5 α ,12 α -dihydroxy-1-oxo-20S,22R-witha-2-enolide Isolated from Daturaquercifolia leaves" Analytical Sciences, Vol. 22 , 2006, 1-2. (JAPAN)
Impact Factor-1.47, ISSN:-0910-6340
9. **Pankaj Bandhoria**, Vivek K. Gupta, Pradeep Kumar, N..K. Satti , P. Dutt and K.A. Suri . "Crystal structure of 5 β ,6 β -epoxy-4 β ,27-dihydroxy-1-oxo-22R-witha-2,24-dienolide Isolated from Withaniasomnifera leaves" Analytical Sciences, Vol. 22 , 2006, 1-2. (JAPAN)
Impact Factor-1.47, ISSN:-0910-6340
10. Rajneesh k. Sharma, Vivek K. Gupta, **Pankaj Bandhoria**, M.Mathews and C.V.Yelamaggad "X-ray study of weak interactions in a liquid crystalline unsymmetric dimer" My Science, Vol. 1(2), 2007, 93-104.
11. Vivek K. Gupta, **Pankaj Bandhoria** and B.D. Gupta "Crystal structure of 3 β -hydroxy-16 α -methylpren-5-en-20-one"Journal of Chemical Crystallography , Vol. 41, 2011, 582-586. (U.S.A)
Impact Factor-0.55, ISSN:-1074-1542
12. Satinder Kumari Juneja, mukhtyar S. Saini, **Pankaj Bandhoria** and Aran Kumar " Reactivity of Silicon tetrachloride and Trimethylsilyl chloride with O, O'- Bis (α - Naphthyl, b-Naphthyl or 2,3,5-trimethylphenyl) dithiophosphate ligands" International Journal for research in Applied Science & Engineering Technology, Vol. 6(1) , 2018, 164- 171.
ISSN:-2321-9653 (UGC Journal no. 23219653)
13. Priyanka Kanwal, Ravinder Kour, Akhil Bandhoria, Ashok Kumar and **Pankaj Bandhoria** "X-ray study of crystal 1-Methyl-5-phenyl-1,3,3a,4,5,5a,11a,11b-hexahydro-2,6-dioxo-1,5-diazacyclopenta[a]anthracen-11-one and its weak interactions" Journal of Biosphere, Vol. 7, 2018, 39-43.
ISSN:- 2278-3342 (UGC Journal no. 63823)
14. Sandeep Arya, Asha Sharma, Bikram Singh, Mohammad Riyas, **Pankaj Bandhoria**, Mohammad Aatif and Vinay Gupta " Sol-gel synthesis of Cu-doped p-CdS nanoparticles and their analysis as p-CdS/n-ZnO thin film photodiode" Optical Materials, Vol. 79, 2018, 115-119. (Elsevier)
Impact Factor- 2.6
ISSN:-0925-3467

15. Nagaraju Mupparapu, Shahnawaz Khan, **Pankaj Bandhoria**, Shunmuganarayanan athimoolm and Qazi Naveed Ahmed "One-Pot Tandem Approach to Functionalized 3-Hydroxy-2-furanyl-acrylamides" ACS Omega, Vol. 3, 2018, 5445-5452 (American Chemical Society).
Impact Factor-2.54
ISSN:-2470-1343
16. Sandeep Arya, Mohammad Riyas, Asha Sharma, Bikram Singh, Prerna, **Pankaj Bandhoria**, Saleem Khan and Vishal Bharti "Electrochemical detection of ammonia solution using tin oxide nanoparticles synthesized via sol-gel route" Applied Physics A (Material Science & Processing), Vol. 124, 2018, 538. (Springer)
Impact Factor-1.82
ISSN:-0947-8396
17. Satinder Kumari Juneja, Onkar Singh Choudhary, **Pankaj Bandhoria** and Aran Kumar "Reactivity of O,O'-Bis(a-Naphthyl, b-Naphthyl or 2,3,5-trimethylphenyl)Dithiophosphate Ligands with Germanium Tetrachloride and trimethyl Germanium chloride" Journal of Chemistry and chemical sciences, 2018 Vol. 8(1), 33-40
Impact Factor-4.19
ISSN:-2229-760x
18. Bikram Singh, Sandeep Arya, Asha sharma, Prerna Mahajan, Jyoti Gupta, Anoop Singh, Sonali Verma, **Pankaj Bandhoria** and Vishal Bharti " Effect of Pd concentration on the structural, morphological and photodiode properties of TiO₂ nanoparticles" Journal of Materials Science (Materials in Electronics), 2019 (Springer) Vol. 31(1), 65-75 NewYork
Impact Factor-2.19
ISSN:-0957-4522
19. Ravinder Kour, Sandeep Arya, Sonali Verma, Jyoti Gupta, **Pankaj Bandhoria**, Vishal bharti, Ram Datt and Vinay Gupta " Potential Substitutes for Replacement of Lead in Perovskite Solar Cells: A Review (Lead free Perovskites)" Global Challenges, 2019 (Wiley) Vol. 3(11), 1-37
Impact Factor-4.306
ISSN:-2056-6646
20. Priyanka Kanwal, Ravinder Kour, Hans Raj, Rakesh Sharma and **Pankaj Bandhoria** "Crystallographic structure analysis of 2,7-dimethyl-3-chloro-4H-pyrido [1,2-a] pyrimidine-4-one" AIP conference proceedings, 2020 Vol. 2220, 060012-1-4
Impact Factor-0.402
ISSN:-0094-243x
21. Priyanka Kanwal, Sanjay Kumar, Aran Kumar and **Pankaj Bandhoria** "Single crystal X-ray crystallographic study of 16 α , 17 α -epoxy-3 β -hydroxypregn-5en-20-one monohydrate" Kala Sarovar, 2020 Vol. 23 (2), 141-146
UGC Care Group-1 Journal
ISSN:-0975-4520
22. **Pankaj Bandhoria**, Priyanka Kanwal, Satinder Kumari Juneja, Aran Kumar, Renu Rajput and Sanjay Kumar "Single Crystal X-ray crystallographic study of 2,2-diiodo-1-phenylvinyl(methyl)sulfane" International Journal of Applied Research, 2020 Vol. 6(6), 343-346
Impact Factor-5.2
ISSN:-2394-7500

23. Ravinder Kour, Sandeep Arya, Sheng-Joue Young, Vinay Gupta, **Pankaj Bandhoria** and Ajit Khosla "Review-Recent advances in Carbon Nanomaterials as electrochemical Biosensors" Journal of the Electrochemical Society, 2020 Vol. 167, 1-24
Impact Factor-4.316
ISSN:-0013-4651
24. Aparna Shetty, Priyank Kanwal, Hemalatha K, Mohd Khizar Syed, **Pankaj Bandhoria** and S. Abdul Khader " dielectric and magnetic studies of Ni_{0.5}Co_{0.5}Fe₂O₄-NiO Composites" International Journal of Mechanical Engineering, 2021 Vol. 6 (3) 4428-4434
Impact Factor- 2.1
ISSN:-0974-5823

PAPERS PRESENTED IN CONFERENCES/ SEMINARS

- 1st J &K science congress held at the University of Jammu, Feb. 7-9th 2005.
- 35th National Seminar on Crystallography held at NPL Delhi, Feb. 22-24th 2006.
- 37th National Seminar on Crystallography held at Jadavpur University, Kolkata, Feb. 6-8th 2008.
- National seminar on Gandhian ideology in the contemporary world. A modern perspective held at M.A.M college Jammu, March 25th 2012.
- National Seminar on Crystallography (43 A) held at IISER, Mohali, March 28-30th 2014.
- Indo-US International conference on recent advances in structural biology and drug discovery held at IIT Roorkee, Oct. 9-11th 2014.
- National conference on Emerging challenges in nuclear and many body physics held at University of Jammu, Nov. 10-11th 2014.
- 2nd national symposium on interdisciplinary sciences held at G.G.M. science college Jammu, Feb. 27-28th 2015.
- National conference on Role of mathematics and computer sciences in advancement of Physics held at Govt. degree college Kathua, Feb. 26-27th 2016.
- State level science conference organised by Govt. degree college Thanamandi, Feb. 4th 2017.
- 12th J&K science congress held at University of Jammu, March 2-4th 2017.
- International conference on renewable energy for sustainable environment challenges and remedies held at SMVDU Katra, March 20-21th 2017.
- Mini colloquium (MQ) cum National Seminar on Advances in Electronic Devices and Circuits held at University of Jammu, April 26th 2017.
- International conference on Materials Research and Technology (ICMRT-2017) at Aggarwal College Ballabgarh, Faridabad (Harayana), from 10-11th July. 2017.
- National conference on Role of Mathematics and Computer science in advancement of physics at Govt. Degree College, Kathua from 10-11th Nov. 2017.

- National conference on mathematical Sciences & it applications at G. G. M. Science College, Jan. 19-20th 2018.
- International conference on “Recent advances in interdisciplinary sciences” organized by Department of Electronics, university of Jammu in collaboration with IEEE EDS Delhi chapter and IETE Jammu centre from 11-12th Jan, 2019.

NATIONAL SEMINAR/CONFERENCES/WORKSHOP ATTENDED

- 32nd National Seminar on Crystallography held at the University of Jammu, Oct. 24-26th 2002.
- Seminar on Physics of materials held at the University of Jammu, Nov. 24-25th 2004.
- International conference on liquid crystals held at University of Mumbai, Dec. 5-8th 2006.
- National Seminar on Quality concern in Indian higher education to meet the global challenges held at Govt. College for Women Gandhi Nagar Jammu, Oct. 12-13th 2009.
- International Conference on Policy, people and peace/ Democratization of foreign policy in parliamentary democracies Canada, India and beyond held at University of Jammu, Dec. 14-16th 2009.
- 39th National Seminar on Crystallography held at the University of Jammu, Oct. 25-27th 2010.
- National Education Summit 2014 towards educating young India held at Mahatma Mandir Gandhinagar, Gujarat, Jan. 10-11th 2014.
- 101 Indian Science congress held at University of Jammu, Feb. 3-7th 2014.

BOOK PUBLICATION

- A text book of Mechanics, Oscillations and Theory of relativity ISBN NO. 978-81-7608-904-3 (Aug. 2014).
- A text book of Electricity, Magnetism and Electromagnetic theory ISBN NO. 978-93-5211-017-9 (Jan 2015).
- A text book of Electronics, Mathematical Physics and Thermodynamics ISBN NO. 978-93-5211-233-3 (July 2015).
- A text book of Atomic, Nuclear Physics and Quantum Mechanics ISBN NO. 978-93-5211-230-2 (July 2016).
- A text book of Mechanics, Oscillations and Theory of Relativity ISBN NO. 978-93-5211-452-8 (Aug.2016).
- A text book of Vector Calculus, Electrostatics and Electromagnetic Waves ISBN NO. 978-93-88186-70-4 (Jan 2017).

- A text book of Mechanics ISBN NO. 978-93-5211-464-1 (Aug.2017).
- A text book of Electronics, Thermodynamics and Statistical Mechanics ISBN NO. 978-93-5211-466-5 (Aug. 2017).
- A text book of Electricity and Magnetism ISBN NO. 978-93-87714-01-4 (Jan. 2018).
- A text book of Quantum Mechanics and Nuclear Physics ISBN NO. 978-93-88186-33-9 (July 2018).

TEACHING EXPERIENCE

- GOVT. POLYT. COLLEGE FOR WOMEN JAMMU:-JAN 2006-1ST MARCH 2006
- MBSCET JAMMU:-2/3/2006-25/10/2007
- SP COLLEGE,MAM COLLEGE, SCIENCE COLLEGE.
- SPPND Government Degree College.

PATENT

Differential Scanning Calorimeters (DSC) for the measurement of melting point of organic compounds

Dated 18/12/2023

Dr.Pankaj Bandhoria

(Associate Professor)

SPPND Government Degree College