Brief Profile

Name	:	**Upasana Rani**
Date of Birth	:	**21/04/1997**
Educational Qualification		
• ***Ph.D.***	:	**Pursuing**
•***M.Tech***	:	
•***B.Tech***	:	
Work Experience		
• ***Teaching***	:	
• ***Research / Industry***	:	**2**
E-mail ID	:	**upasana.rani@miet.ac.in**
Contact No.	:	**9193991956**
Area of Interest	:	**Engineering Physics**
Teaching		
• ***Subjects Taught at UG Level***	:	
• ***Subjects Taught at PG Level***	:	
Research Guidance		
•***B.Tech***	:	
•***M.Tech***	:	
• ***Ph.D.***	:	
Research Publications		
• ***Journals***	:	**7**
• ***Conferences***	:	**0**
• ***Book Chapters***	:	**0**
Patent/IPR ***(Books Published etc.)***	:	**0**
No. of National/International Conferences attended/ Paper Presented	:	**3**
No. of Conferences Organized	:	**0**
STC/FDP/Seminars/Workshops Organized	:	**0**
STC/FDP/Summer/Winter Schools/Workshops /Seminars attended	:	**12**
Certification Courses (NPTEL etc.)	:	
Memberships of the Professional Societies	:	
Awards/Honors	:	**INSPIRE Scholar**
Funded Project	:	

Name of Project	Funding Agency	Duration

Any other relevant Information :

LIST OF PUBLICATIONS

Journal:

1. J. Kumari, S. Tomar, Sukhendra, B.L. Choudhary, **U. Rani**, A.S. Verma, Fundamental physical properties of $LiInS_2$ and $LiInSe_2$ chalcopyrite structured solids, *East. Eur. J. Phys.* **3** (2021) 62-69.
2. P.K. Kamlesh, R. Agrawal, **U. Rani** and A.S. Verma, Comprehensive ab-initio calculations of AlNiX (X = P, As and Sb) half-Heusler compounds: Stabilities and applications as green energy resources, *Mater. Chem. Phys.* **275** (2022) 125233. **I.F.-4.094.**
3. P.K. Kamlesh, R. Agarwal, **U. Rani** and A.S. Verma, First-principles calculations of inherent properties of Rb based state-of-the-art half-Heusler compounds: Promising materials for renewable energy applications, *Phys. Scr.* **96 (**2021) 115802. **I.F.-2.487.**
4. **U. Rani**, P.K. Kamlesh, R. Agarwal, J. Kumari and A.S. Verma, Electronic and thermo-physical properties of double antiperovskites X_6SOA_2 (X= Na, K and A= Cl, Br, I): A non-toxic and efficient energy storage materials, *Int. J. Quantum Chem.* **121** (2021) e26759. **I.F.-2.444.**
5. **U. Rani**, P.K. Kamlesh, A. Shukla and A.S. Verma, Emerging potential antiperovskite materials ANX_3 (A= P, As, Sb, Bi; X= Sr, Ca, Mg) for thermoelectric renewable energy generators, *J. Solid State Chem.* **300** (2021) 122246. **I.F.-3.498.**
6. S. Pachori, R. Agarwal, A. Shukla, **U. Rani** and A.S. Verma, Mechanically stable with highly absorptive formamidinium lead halide perovskites [$(HC(NH_2)_2PbX_3$; X = Br, Cl]: Recent advances and perspectives, *Int. J. Quantum Chem.* **121** (2021) 26671. **I.F.-2.444.**
7. **U. Rani**, Y. Soni, P.K. Kamlesh, S. Pachori and A.S. Verma, Fundamental theoretical design of Na-ion and K-ion based double antiperovskite X_6SOA_2 (X= Na, K; A= Cl, Br and I) halides: Potential candidate for energy storage and harvester, *Int. J. Energy Res.* **45** (2021) 13442-13460. **I.F.-5.164.**

Books / Book Chapters:

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Conferences:

1. Attended an *International Virtual* Conference on *"Modern Instrumental and Characterization Techniques in Applied Sciences (MICTAS-2020)"* Organized by MIET Haldwani & Department of Chemistry, H.N.B. Govt. P. G. College, Khatima, Uttarakhand in collaboration with USERC DST Dehradun & Department of Chemistry, R.H. Govt. P. G. College, Kashipur, Uttarakhand in July 2020.