

**Dr Amit Sharma**  
Assistant Professor

Specialization: Wave Propagation, Mathematical Modeling  
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**Ongoing Research Projects:**

- Development of multiplex-PCR based methods for the detection of important soil borne fungal pathogens of sandalwood and their management funded by Department of Biotechnology, Govt. of India for Rs. 34.67 lakh from Feb 22 to Feb 25 (As Co-PI)

**Best Research Papers:**

- Sharma, J. N. and Sharma, A. 2010. Reflection of acoustodiffusive waves from the boundary of semiconductor halfspace. *Journal of Applied Physics* (U.S.A)108 (3): 033712 (12 pages) (Impact Factor :2.877; NAAS Rating= 8.887).
- Sharma, J. N. and Sharma, A. 2011. Reflection and transmission of acoustic waves at semiconductor-liquid interface. *American Institute of Physics, Advances (AIP Advances)*1 (3): 032137 (07 pages) (Impact Factor :1.548; NAAS Rating= 7.548).
- Pathania, A., Thakur, P., Sharma, A, Hsu, J.H. and Thakur, A. 2015. Investigation of iron deficient and manganese doped Ni–Mg nanoferroxide ceramics. *Ceramics International* 41(9): 10803-10809 (Impact Factor:5.532; NAAS Rating= 11.532).
- Thakur, A, Sharma, P, Thakur, P., Sharma, A Thakur, A, Ravelo, B. and Hsu, J.H. 2015. Effect of high spin Mn<sup>2+</sup> /Mn<sup>3+</sup> ions on microstructural, optical, magnetic and electrical properties of hydrothermally prepared Ni–Mg nanoferrites. *International Journal of Modern Physics B.* 29 (24), 1550183. (Impact Factor: 0.937; NAAS Rating= 6.937).
- Thakur A, Chandel, S, Thakur, P, Thakur, S.S., Sharma, A, Hsu, J. H., Tomar, M., Gupta, V. 2018. Investigation of excess and deficiency of iron in BiFeO<sub>3</sub>. *Material Chemistry and Physics* 204:207-215 (Impact Factor: 4.094; NAAS Rating= 10.094).
- Thakur, P, Taneja, S, Sindhu, D, Lüders, U, Sharma, A, Ravelo, B. and Thakur, A. 2020. Manganese Zinc Ferrites: a Short Review on Synthesis and Characterization. *Journal of Superconductivity and Novel Magnetism* 33:1569-1584(Impact Factor:1.675; NAAS Rating= 7.675).

- Sharma, A, Sharma, I.M Sharma, M, Sharma, K. and Sharma, A. 2021. Effectiveness of fungal, bacterial and yeast antagonists for management of mango anthracnose (*Colletotrichum gloeosporioides*). *Egyptian Journal of Biological Pest Control* 31:135 (11 pages) (Impact factor 2.055; NAAS Rating= 8.00).
- Sood, D, Sharma, M and Sharma, A. 2023. Induction of resistance in tomato against bacterial wilt using abiotic resistance inducers. *Journal of Plant Pathology* <https://doi.org/10.1007/s42161-023-01322-3>. (Impact factor 2.643; NAAS rating: 7.73).
- Salwan, R., Sharma, M, Sharma, A. and Sharma, V. 2023. Insights into plant beneficial microorganism-triggered induced systemic resistance. *Plant Stress* 7: 100140.
- Kushwaha, A. K, Sharma, Y. D. and Sharma, A. 2023. Stability analysis of bioconvective heat transfer in a suspension of gyrotactic microorganisms under vertical vibration. *Special Topics and Reviews in Porous Media - An International Journal, USA* (Impact factor 0.5; NAAS rating: 6.5)  
(All impact factors are Thomson Reuter)

## Books

- Kothiyal A and Sharma A. 2014. *A Text Book of Engineering Mathematics*, Anand Publications, New Delhi. p 432.
- Sharma A. 2014. *Wave Propagation Problems in Semiconductor Materials*, Lambert Academic Publishing, Germany. p 76
- Sharma A. and Sharma D.R. 2018. *Basic Mathematics*, Spectrum, Sharma Publications, Jalandhar. p 584.

## Awards & Recognitions

### International:

- Chaired a session in International Conference on Mathematical Models and Methods in Applied Sciences, 14-15 Nov, 2013 Venice, Italy
- DST, CSIR travel grant, thrice, to attend the international conferences in USA, London, Canada and Italy.

### National:

- MHRD fellowship during Ph.D. at NIT, Hamirpur.