

Biography

First Name: SEYEDEH MEHRI

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Address: Magneto-optics Lab, Laser and plasma Research Institute, Shahid Beheshti University (SBU), Evin.

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Faculty: Laser and plasma Research Institute

Department:

Rank: Associated Professor

Research Institute:

Teaching Experience

1. **Photonic Crystals**
2. **Physics of photonic materials**
3. **Principles of mechanical physics**
4. **Principles of electromagnetism**
5. **Optical properties of solids**

6. **nanophotonics**

Educational Background

-Doctor of Philosophy from Shahid Beheshti University, Summer 2009.

– MS in Condensed Matter Physics, Shahid Beheshti University, Tehran, IRAN, Winter 2004.

– BS in Physics, Tehran University, Tehran, IRAN, Summer 2002.

– Diploma in Physics & Mathematics Sciences, Sharifol Olama High School, Sari, IRAN, Summer 1998.

Research Interests

1. **Magnetophotonic crystals and photonic crystals**
2. **Surface Plasmon resonance and enhanced Magneto-optical rotation**
3. **Isolators**
4. **Pulsed Laser Deposition of thin films and multilayer systems**
5. **All optical gates**

6. **Magnetism Nanowires**
7. **Magnetic nanoparticles**
8. **Microwave filters and Circulators**
9. **Gas sensors**
10. **Nano particle's Synthesis by Laser ablation in liquids**
11. **patterned magneto-plasmonic structures**
12. **Neuro plasmonic**
13. **Long range surface plasmon resonance**
14. **Surface Waves**