

# Biography

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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**