

# Ameneh Ahangarpour

## Education

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- **PhD:** Shahid Chamran University of Ahvaz, Ahvaz. I. R. Iran; Ph.D. in Solid State Physics; Degree granted November ۲۰۱۴.  
*Thesis Title:*  
**Synthesis and thermal properties measurement of carbon nanotubes based nanofluids and investigation of their modeling possibility.**
- **MSc:** Shahid Chamran University of Ahvaz, Ahvaz. I. R. Iran; M. Sc. in Solid State Physics; Degree granted September ۲۰۰۸.  
*Thesis title:*  
**Large scale production of carbon nanotubes by chemical vapour deposition (CVD) method and an investigation of possible producing their thin films.**
- **BSc:** Shahid Chamran University of Ahvaz, Ahvaz. I. R. Iran; B.Sc. in physics ۲۰۰۳.

## Teaching and Skills summary (۲۰۱۵-۲۰۱۹)

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- Assistant professor in physics, Shahid Chamran University of Ahvaz, Physics Department, Ahvaz, I. R. Iran.
- teaching physics courses (Mathematical Methods in Physics ۱, many more fundamental physics courses and many more fundamental physics labs) and supervision of undergraduate students and their physics projects.
- Expertise in designing and constructing Chemical Vapour Deposition (CVD) system.
- Expertise in synthesis of carbon nanotubes and their application in nanofluids.
- Expertise in design of experiments (Taguchi method) and modeling experimental data (Artificial Neural Networks).

## Paper published in journals and conference proceeding

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۱. M. Farbod, A. Ahangarpour, S. Gh. Etemad, “Stability and thermal conductivity of water-based carbon nanotube nanofluids”, Particuology ۲۲, ۵۹-۶۵, ۲۰۱۵.
۲. M. Farbod, A. Ahangarpour, “Improved thermal conductivity of Ag decorated carbon nanotubes water based nanofluids”, Physics Letters A ۳۸۰ (۴۸), ۴۰۴۴-۴۰۴۸, ۲۰۱۶.
۳. A. Ahangarpour, M. Farbod, “The noble effect of aging on the thermal conductivity of modified

CNTs- ethylene glycol nanofluids”, Physics and Chemistry of Liquids ۵۶ (۱), ۹-۱۵, ۲۰۱۸.

- ۴. A. Ahangarpour, M. Farbod, A. Ghanbarzadeh, A. Moradi, A. MirzakhaniNafchi, “Optimization of continual production of CNTs by CVD method using Radial Basic Function (RBF) neural network and the Bees Algorithm”, Journal of Nanostructures ۸ (۳), ۲۲۵-۲۳۱, ۲۰۱۸.
- ۵. M. Farbod, L. Sharif, A. Ahangarpour, “Synthesis of micro and nano carbon spheres by hydro-thermal method”, ۱۳<sup>th</sup> Annual Physics conference, physical society of Iran, February ۲۰۱۷, Tehran, Iran.