

Alireza Alvari

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Science Department, Institute for Higher Education, ACECR, Khuzestan, Iran

RESEARCH INTERESTS

- Laser -Tissue Interactions
 - Interferometry
 - Smart Fluids, MR & ER Fluids
 - Optical Sensors
 - Tissue Optics
 - Fiber Optics
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EDUCATION

- Science and Research Branch of Islamic Azad University (SRBIAU) *Tehran, Iran*
M.Sc. in Applied Physics *Sep. 2005- Jan. 2008*
Major: Laser Physics, **GPA: 17.51/20**
Thesis: "Detection of Oil Contamination in water by Nd-YAG Second Harmonic Laser and Diode Pump Laser emitting 632 nm beams"
Advisors: Dr. Saeedeh Saghafi and Dr. Mahmoud Ghorannevis
 - Shahid Chamran University (SCU) *Ahwaz, Iran*
B.Sc. in Physics *Jan. 2001- Jan. 2005*
Major: Solid State Physics, **GPA: 15.89/20**
Thesis : " Review on Alpha Decay"
Advisor: Dr. Mojtaba Jafarpour
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TECHNICAL SKILLS

- **Engineering Tools:** MATLAB & Simulink, MATHEMATICA, Maple, ZEMAX, LABVIEW
 - **Programming:** Fortran, C++
 - **Typesetting:** Microsoft Office
 - **Miscellaneous:** Adobe Photoshop, Adobe Premier, Corel Draw
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Courses Taught

- **Atomic and Molecular Physics:** Laser Physics ,Plasma Physics, Electrodynamics, Optics
 - **Elementary Physics:** Electricity and Magnetics , Light and Wave Physics, Heat and Mechanic Physics, Electromagnetism and Waves
 - **Physics Laboratory:** Electricity and Magnetics Lab, Optics Lab, Modern Physics Lab
 - **Other Courses:** Electronics, Statics, Dynamics
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MEMBERSHIPS

- Member of Biophotonics Laboratory in SRBIAU
 - Member of Physics Society of Iran (PSI) , Member Number: 1595
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HONORS

- Ranked 1st among graduate students with **GPA : 17.51/20** *Spring 2008*
 - Ranked 3th among undergrad students with **GPA : 15.89/20** *Summer 2005*
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ACADEMIC EXPERIENCES

Institute for Higher Education, ACECR, Khuzestan, Iran

Ahwaz, Iran

- **Head of Science Department**

Sep. 2013 - present

- **Lecturer**

Sep. 2008 - present

Electricity and Magnetics

Mechanics Physics

Electricity and Magnetics Laboratory

Mechanics Physics Laboratory

Electromagnetism and Waves

Light and Wave Physics

Sep. 2012 - present

Sep. 2012 - present

University of Applied Science and Technology, Ahwaz, Iran

Ahwaz, Iran

- **Lecturer**

Sep. 2008 - present

Electricity and Magnetics

Mechanics Physics

Electricity and Magnetics Laboratory

Mechanics Physics Laboratory

The Application of Electronics in the Chemical Engineering

LANGUAGE SKILLS

- TOEFL iBT **87/120**
- GRE General Verbal: **144/170** Quantitative : **152/170**
- GRE Physics **600/800**

PUBLICATIONS

- **Conference Papers**

Alvari, A., Saghafi, S. Detection of Oil Contamination in water by Nd-YAG Second Harmonic Laser emitting 532 nm beams and Diode Pump Laser emitting 632 nm beams. Accepted for 18th Iranian Conference on Optics and Photonics (ICOP), University of Tabriz, Iran 2012.

- **Technical Reports**

Alvari, A. A Survey on Tissue Optics. (In Persian).

Alvari, A. A Survey on Light-Tissue Interaction. (In Persian).

Alvari, A. A Survey on Smart Fluids and their industrial applications. (In Persian).

- **Theses**

Alvari, A. Detection of Oil Contamination in water by Nd-YAG Second Harmonic Laser emitting 532 nm beams and Diode Pump Laser emitting 632 nm beams, M.Sc. Thesis (in Persian), Biophotonics Group, Science and Research Branch Of Islamic Azad University (SRBIAU), Tehran, Iran, Jan 2008

Alvari, A. Review on Alpha Decay. B. SC. Thesis (in Persian), Science Department, Shahid Chamran University, Ahwaz, Iran, Sep 2005