

Curriculum Vitae



Forename: Ali

Surname: AL Sharea

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| Date of birth: | 10/10/1984 |
| Nationality: | Iraq |
| E-mails: | alico842013@gmail.com |
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Education

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|---------------------------------------|-------------------|--|--------------|
| PhD Candidate (Research assistant) | Energy Conversion | University of Bucharest | 2018-Present |
| Master | Physics -SERSA | University of Bucharest | 2016-2018 |
| Bachelor | General Physics | University of Mustansiriya College of Science -Iraq | 2003-2007 |

Research

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| Synthesis of phase change materials compounds |
| Improving the thermal conductivity of phase change materials |
| Study of the effect of gamma rays on phase change materials |
| Thermal energy storage applications |
| Study of the effect of gamma rays on alloys |
| Image processing |
| Thermal measurement and analysis |

The physical protection system for the nuclear facility in Iraq

Nuclear security of radioactive materials

Papers and conferences

List of publications, conferences

Articles in ISI quoted journals:

1. Balan, A.E.; **AL-Sharea, A.**; Lavasani, E.J.; Tanasa, E.; Voinea, S.; Dobrica, B.; Stamatina, I. Paraffin-Multilayer Graphene Composite for Thermal Management in Electronics. *Materials* 2023, 16, 2310. <https://doi.org/10.3390/ma16062310>
2. Esmail Jalali Lavasani, Ioan Stamatina, **Ali Al-Sharea**, Cornelia Diac, Adriana Balan, Designing Geometries in Solidworks for Heat Transfer Simulations in Ansys, Romanian Reports in Physics- submitted to the journal

International conferences:

1. A.E. Bălan, **A. Al-Sharea**, E.J. Lavasani, I. Stamatina, "Paraffin-multilayer graphene compounds for thermal energy storage", E-MRS 2024 FALL MEETING & EXHIBIT, Warsaw (Poland), 16-19th September 2024- to be presented as poster

National conferences:

1. Sarah ALMASOODI, **Ali ALSHAREA**, Esmail JALALI LAVASANI, Integration of nuclear power plant in electrical power systems, Bucharest University Faculty of Physics 2024 Meeting, 24-05-2024
2. **Ali ALSHAREA**, Sarah ALMASOODI, Esmail JALALI LAVASANI, Phase change materials and their applications in storing thermal energy as clean energy, Bucharest University Faculty of Physics 2024 Meeting, 24-05-2024
3. Esmail Jalali LAVASANI, **ALI AL SHAREA**, Sarah Al MASOODI, Enhancement of Thermoelectric Properties of Sodium Cobalt Oxide via Magnetic Field Application, Bucharest University Faculty of Physics 2024 Meeting, 24-05-2024

Work Experience

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| Research Assistant | University of Bucharest- Romania | 2018-Present |
| Head of the Nuclear Security Division | Iraqi Atomic Energy Commission | 2018- Present |
| Project planning in Iraq with the International Atomic Energy Agency | Directorate of Atomic Energy Affairs-Iraq | 2011-2015 |
| Physical assistant | Space and Communications Centre | 2008-2011 |

Skills

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| Computer Software: | |
| Microsoft Office | |
| MATLAB | |
| Python | |
| Organ | |
| Imagej | |