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|  | Hashim M Ali (870)972-3215  hali@astate.edu |  |

### Current Position

Position Title:

Current Academic Rank: Assistant Professor

Rank Since: Fall 2009

### Degrees

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| --- | --- |
| Ph D | Physical Chemistry: Analytical chemistry, University Of Iowa, Iowa city 2005  Dissertation: Laboratory investigations of atmospheric particles |
| BS | Physical Chemistry: , United Arab Emmirates University, United Arab Emirates 2000 |

### Scholarly Contributions and Creative Productions

Grants

Ali, H. (2012). Using iron minerals to breakdown organic contaminants in waste water. Office of Research and Technology Transfer - 3987.6.

Warby, R., Benjamin, E., Koizumi, H., Burns, W., Ali, H., & Rougeau, B.L. (2011). National Center for Science and Civic Engagement Post-Institute Implementation SENCER NSF 2010-2012 Sub-Awards. SENCER NSF - 3000.

Kennon, J.T., & Ali, H. (2010). Atmospheric Aerosol/Radiation. Arkansas Space Grant Consortium - 11365.

Ali, H. (2009). Baloon-SAT Based Micro Thruster Flights. Arkansas Space Grant Consortium - 3012.2.

Ali, H. (2008). Arkansas Louise Stokes Alliance for Minority Participation. NSF - 4000000.

Pratte, J.M., Ali, H., Marsico, T., McKay, T., & Warby, R. (2011). The Experiential Learning Fellowship (ELF) Program. NSF - 567185.

Journal Publications

Arora, T., Ali, H., Burns, W., Koizumi, E., & Koizumi, H. (2011). Theoretical and ATR-FTIR Study of Free 12-Crown-4 in Aqueous Solution. Chemical Physics Letters/Elsevier, 502(2011), 253Â258.

Ali, H. (2010). "Fast time-resolved aerosol collector:Proof of concept". Atmospheric Measurment Technique, 3, 1377.

Presentations

Ali, H and Ruyonga, R, “Iron oxide- mediated degradation of Sodium Arsenate", 68th Southwest Regional American Chemical Society (ACS) meeting, Baton Rouge, LA, November 4-9, 2012

Ali, H and Ruyonga, R,” ATR-FTIR study of the adsorption and degradation of Sodium Arsenate on the surface of Fe2O3,” Arkansas INBRE conference, Fayetteville, AR, October 5, 2012

Ali, H and Patterson, A., “Aerosol generation apparatus: Proof of Concept”, Arkansas INBRE conference, Fayetteville, AR, October 5th 2012

Ali, H., & Ruyonga, R. (2012). ATR-FTIR study of the adsorption of Sodium Arsenite onto Iron oxides. 32nd Undegraaduate Research Conference.

Ali, H., Kennon, J.T., & Patterson, A. (2012). Design of an aerosol generation and reaction apparatus. 20th Annual ASGC symposium.

Ali, H.M. (2012). Design of an aerosol generation and reaction apparatus. 20th Annual ASGC symposium.

Ali, H., & Ruyonga, R.M. (2012). Iron mediated degradation of Sodium Arsenate. Midsouth Inorganic Chemists Association.

Ali, H., & Kennon, J.T. (2012). Water vapor and climate change. Dept of Chemistry Seminar.

Kennon, J.T., Bennett, B., Ali, H., & Roberts, E. (2011). Arkansas BalloonSAT Project: Year IV. Arkansas Space Grant Symposium.

Kennon, J.T., Ali, H., & Pratte, J.M. (2011). Atmospheric Dynamics: Students at the Edge of Space. SENCER Summer Institute 2011.

Ali, H., & Kennon, J.T. (2011). ATR-FTIR investigation on the DRH of mixed binary salts of atamospheric importance. Conference on Undergraduate Research.

Kennon, J.T., Ali, H., Huss, M., Bennett, B., & Roberts, E. (2011). BalloonSat/Near Space Research. 2011 Arkansas NASA EPSCoR Workshop.

Kennon, J.T., Ali, H., & Williams, T. (2011). Intensities of Red, Green and Blue Light in the Atmosphere. Arkansas Space Science Symposium.

Ali, H., & Kennon, J.T. (2011). Investigating the Boundary layer variations as a function of altitude. National Conferences on Undergraduate Research.

Ali, H., & Kennon, J.T. (2011). Measurment of tropospheric water vapor in relation to climate change. 95th Arkansas Academy of Science Meeting.

Ali, H. (2011). Q&A with a Climate Scientist. Midsouth Inorganic Chemical Society Meeting.

Ali, H. (2011). Role of Stratospheric water vapor on climate change. Southwest Regional ACS meeting.

Ali, H., & Kennon, J.T. (2011). Upper Tropospheric Chemistry in Relation to Climate Change. 2011 NASA EPSCoR Research Team Network Meeting.

Ali, H. (2011). Water Affinity of atmospherically relevant inorganic comounds. Midsouth Inorganic Conference.

Ali, H. (2010). Climate change chemistry. Midsouth Inorganic Chemists Association.

Ali, H. (2010). Conditions in the upper atmosphere related to climate change. Fall Physical Chemistry Seminar.

Ali, H., & Kennon, J.T. (2010). Conditions in the upper atmosphere related to climate change. Midsouth Inorganic Chemists Association.

Ali, H., & Kennon, J.T. (2010). Conditions in the upper atmosphere related to climate change. 2010 Arkansas INBRE ResearchCconference.

Arora, T., Ali, H., Burns, W., & Koizumi, H. (2010). Interaction of 12c4 with alkali metal cation in aqueous solution: Theoretical investigation using polarized continuum model. Fall 2010 National Meeting & Exposition.

Ali, H., & Kennon, J.T. (2010). Measurments of Stratospheric water vapor by weather balloons. 2010 SE/SW ACS Regional meeting.

Arora, T., Ali, H., Burns, W., Koizumi, E., & Koizumi, H. (2010). Theoretical and Experimental study of 12-Crown-4 in Aqueous Phase. MICA Meeting.

arora, T., Ali, H., Burns, W., Koizumi, E., & Koizumi, H. (2010). Theoretical and Experimental study of 12-Crown-4 in Aqueous Phase. INBRE Research Conference Fall 2010.

Ali, H. (2009). Judge for Poster session. 2009 Arkansas INBRE ResearchCconference.

Ali, H. (2009). Weather and Climate. Midsouth Inorganic Chemists Association.

Proceedings Publications

Ali, H. (2012). Measurment of Stratospheric water vapor from weather balloons. Americal Chemical Society,

### Institutional Committees

University

Department Graduate Program Committee (University) Fall 2010 - Present

### Other Institutional Service

Committee member,Organic Faculty Search (University) Fall 2012 - Spring 2013

(Committee Member ) ChenXi Zhu Master Thesis (University) Fall 2012

(Committee Member) Arzoo Parbatani Thesis Committee (University) Summer 2012 - Fall 2009

(Committee Member) Tanika Arora Thesis Committee (University) Summer 2012 - Summer 2010

(Committee Member) She Yi Thesis Committee (University) Summer 2012 - Fall 2010

(Committee Member) Subha Priya Thesis Commitee (University) Summer 2012 - Fall 2009

(Committee Member) Sheng Song Thesis Committe (University) Summer 2012 - Summer 2010

Committee member, Analytical Faculty Search (University) Spring 2012

(Faculty Advisor) American Chemical Society Student Affiliate (University) Fall 2011 - Summer 2012

(Committee Member) Ecotox Research Assistant Search (University) Fall 2010 - Spring 2011

(Committee Member) Physics Faculty Search (University) Fall 2010 - Spring 2011

(Committee Member) Graduate selection committe (University) Fall 2010 - Summer 2012

(Faculty Advisor) Muslim Student Association (University) Fall 2010 - Summer 2012

### Professional Service

NSF Graduate Research Fellowship Program Panelist, National Science Foundation Fall 2012

Faculty Advisor, EnvironMentors Spring 2012 - Present

Invited Speaker, University of Memphis Spring 2012

Faculty Advisor, American Chemical Society, Student Affiliate Fall 2011 - Present

Faculty Advisor, Muslim Student Association Fall 2011 - Present

Program Organizer and Chair, American Chemical Society Regional Meeting Fall 2011

Program Coordinator, Arkansas Louise Stoke Alliance for Minority Participation Fall 2011 - Present

Guest Speaker, ScienceCafe Little Rock Summer 2011

Poster Judge, Arkansas Academy of Science meeting Spring 2011

Session Chair, Arkansas Academy of Science Annual Meeting Spring 2011

Reviewer, Proceedings, National Council on Undergraduate Research, NCUR Spring 2011

Poster Judge, CREATE@ ASTATE Spring 2011

Invited Speaker, University of Arkansas Fayetteville Fall 2010

Reviewer, Journal Article, Atmospheric Chemistry and Physics Summer 2010 - Fall 2010

Reviewer, Journal Article, Journal of Colloid and Interface Science Summer 2010 - Fall 2010

Poster Judge, Arkansas INBRE meeting Fall 2009 - Present

Reviewer, Grant Proposal, National Science Foundation Fall 2009 - Present

### Honors and Awards

Improving Diversity at ASU, ASU office of Diversity 2012

Faculty Reseach Award, Office of Research and Technology Transfer 2012

Summer Institute for Research Development, Office of Research and Technology Transfer 2011

Undergraduate Research Travel Fund, Office of Research and Technology Transfer 2010

### Teaching

Fall 2009 Courses:

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| CHEM 1011 005 - General Chemistry I Laboratory |
| CHEM 6144 1 - ENVIRONMENAL INSTRUMENTATION |

Spring 2010 Courses:

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| CHEM 3154 001 - Survey of Physical Chemistry |
| PHYS 3043 001 - ATMOSPHERIC DYNAMICS |

Summer 2010 Courses:

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| CHEM 1021 001 - General Chemistry II Laboratory |
| CHEM 1023 001 - General Chemistry II |

Fall 2010 Courses:

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| CHEM 1023 001 - General Chemistry II |

Spring 2011 Courses:

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| CHEM 3154 001 - Survey of Physical Chemistry |
| CHEM 3154 002 - Survey of Physical Chemistry |
| CHEM 6433 1 - ADVANCED PHYSICAL CHEMISTRY |
| PHYS 3043 001 - ATMOSPHERIC DYNAMICS |

Summer 2011 Courses:

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| CHEM 1013 001 - General Chemistry I |

Fall 2011 Courses:

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| CHEM 3124 001 - Physical Chemistry I |
| CHEM 4281 001 - Chemistry Seminar |
| CHEM 4393 001 - Special Problems |
| CHEM 4393 1 - SP TOP PHYSICAL CHEM I LECTURE |

Spring 2012 Courses:

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| CHEM 3134 001 - Physical Chemistry II |
| CHEM 4281 001 - Chemistry Seminar |

Summer 2012 Courses:

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| CHEM 1023 001 - General Chemistry II |
| CHEM 4393 001 - Special Problems |

Fall 2012 Courses:

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| CHEM 1013 H03 - HNRS GENERAL CHEMISTRY I |
| CHEM 3124 001 - PHYSICAL CHEMISTRY I |
| CHEM 427V 005 - PAYLOAD APP FOR BALLOONSAT |
| CHEM 427V 006 - ADSORPTION OF NONYLPHENOL |
| CHEM 6273 005 - SURFACE AREA DEPENDENCE |