***Curriculum Vitae***

**Dr.Muhanad Hatim Alrakabi**

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**Personal Summary:**

**Name** : Muhanad Hatim Hashim Alrakabi

**Date of Birth** : 25 /3/1976

**Gender** : Male

**Nationality**  : Iraqi

**Language**s : Arabic Mother Language

: English Advance level

: Indian Basic communication

: Russian Basic communication

**Address** : Department of Physics, College of Sciences, Al-Mustansiriyah University

**Education:**

* **Ph.D. Physics -** Nuclear Physics / Atomic physics 2008-2012

Panjab University, Chandigarh, India

* **M.Sc Physics** (Radiation Physics and Health Physics), 1998-2001

Al-Mustansiriyah University, Baghdad, Iraq

* **B.Sc. (Physics)**, 1994-1998,

Al-Mustansiriyah University, Baghdad, Iraq

**ACADEMIC HONORS AND AWARDS:**

* Number of Academic honors and awards from the Ministry of higher education, vice-chancellor of Al-Mustansiriyah , Dean of Science College and Chairman of Physics department.

**ACADEMIC /TEACHING EXPERIENCE:**

* Health Physics
* Atomic Physics
* Radiation Physics
* Environmental Physics
* Experimental Nuclear Physics
* Solid State physics
* Electronics Physics

**COURSES TAUGHT:**

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| --- | --- |
| **Undergraduate** | **Graduate** |
| 1. Mechanic Physics  2. Electricity Physics  3. Radiation Physics  4. Solid State physics  5. Atomic Physics  6. Health Physics  7. Computer  8. Electronics | Research & Teaching |

**PROFESSIONAL AFFILIATIONS:**

* Head and Member in different committees.

**PUPLICATIONS:**

1. Resonant Raman scattering contribution to attenuation of x rays at energies in lower vicinity of the K-shell ionization threshold of some elements with 22 *Z* 71, *S. Kumar, V. Sharma, Sunil Kumar,* ***Muhanad Alrakabi****, D. Mehta and N. Singh, Journal of Applied Physics* ***105*** *(2009) 104909.*
2. Contribution of near-edge processes to attenuation of the characteristic x rays in elements with 48 *Z* 83, *Sunil Kumar,* ***Muhanad Alarkabi****, S. Kumar, D. Mehta, S.C. Bedi, and Nirmal Singh, Nucl. Instr. and Meth.* ***B 268*** *(2010) 231.*
3. Study of uranium contamination of ground water in Panjab state in India using X-ray fluoroscence technique. ***Muhanad.Alrakabi*** *,G. Singh , Atul Bhalla , Sunil.Kumar , S. Kumar , A. Srivastava ,BimalRai , N. Singh , J.S. Shahi and D. Mehta, Journal of Radioanalytical and Nuclear Chemistry (JRNC) (2011).*
4. Investigations relevant to uranium contamination of ground water in Punjab, ***Muhanad Alrakabi****, Gurjeet Singh, Atul Bhalla, Sunil Kumar, Sanjeev Kumar, Alok Srivastava, Bimal Rai, N. Singh, J.S. Shahi, D. Mehta, Journal of Radioanalytical and Nuclear Chemistry* ***291 , 221 (****2012).*
5. Reply to querry related to “Investigations relevant to uranium contamination of ground water in Punjab” *Gurjeet Singh,* ***Muhanad Alrakabi****, Atul Bhalla, Sunil Kumar, Sanjeev Kumar, Alok Srivastava, Bimal Rai, N. Singh, J.S. Shahi, D. Mehta, Accepted in Journal of Radioanalytical and Nuclear Chemistry,(2013)*
6. Alignment of L3 subshell vacancy states in Au, Bi, Th and U following photoionisation and effect of external magnetic field, ***Muhanad Alrakabi****, Sanjeev Kumar, Veena Sharma, Gurjeet Singh, Devineder  Mehta,* [*The European Physical Journal D*](https://link.springer.com/journal/10053)*, ( 2013).*
7. Determination of Heavy elements in Drinking Water from Different Regions of Baghdad city , Iraq Using EDXRF Spectrometer, ***Muhanad Alrakabi****,* [*Al-Mustansiriyah Journal of Science*](https://www.google.iq/url?sa=t&rct=j&q=&esrc=s&source=web&cd=1&ved=0ahUKEwiJ7eeUmefSAhUiYpoKHS5hD0EQFggYMAA&url=http%3A%2F%2Fwww.iasj.net%2Fiasj%3Ffunc%3Dissues%26jId%3D89%26uiLanguage%3Dar&usg=AFQjCNG2UDyapuRv3JIwcSgb03K2N1gm9g&sig2=UFnufzJqOr7BmeT0Y2yB0Q&bvm=bv.150120842,d.bGs)*. No.1, 2017*

**PROFFESSIONALDEVELOPMENT**

**Conference contributions**:

1. Contribution of near edge processes to attenuation of X-rays, *Sunil Kumar, S. Kumar, V. Sharma,* ***Muhanad Alarakabi,*** *S.C. Bedi, D. Mehta, N. Singh presented in third Chandigarh Science Congress at Panjab University, Chandigarh 2009.*
2. The presence of uranium in drinking water and its removal, **M*uhanad Alrakabi****, A. Bhalla, Sunil Kumar, S. Kumar, K.P. Singh, D. Mehta and N. Singh, Presented in Recent Advances in Environmental Protection (RAEP 2009) International Conference & Exhibition Organized by Chemistry Department, St. John’s College, Agra Venue: Hotel Clarks Shiraz, Agra, India December 17-19, 2009.*
3. Effect of Coster-Kronig transition on the L3-subshell vacancy alignment in 58Ce, 59Pr and 60Nd following photoionization**,** *G. Singh,* ***Muhanad Alrakabi****,, Sunil Kumar****,*** *A. Bhalla and S. Kumar, Presented in Punjab Science Congress held on 7-9 Feb, 2010.*
4. Investigations relevant to uranium contamination of ground water in Punjab, ***Muhanad Alrakabi****, Gurjeet Singh, Atul Bhalla, Sunil Kumar, Sanjeev Kumar, Alok Srivastava, Bimal Rai, N. Singh, J.S. Shahi, D. Mehta, submitted in Fourth Internaltional Symposium on Nuclear Analytical Chemistry (NAC-IV), Bhabha Atomic Research Centre, Trombay, Mumbai, India, November 15-19, 2010.*
5. Flyash from thermal power plant as a possible source of contamination of ground water*, Gurjeet Singh, Atul Bhalla,* ***Muhanad Alrakabi****, Sunil Kumar, Sanjeev Kumar, N. Singh, J.S. Shahi and D. Mehta, presented in International conference at KMV Jallandhar, Punjab (2010).*
6. Investigations relevant to uranium contamination of ground water in Malwa region of Punjab state, *Atul Bhalla,* ***Muhanad Alrakabi****, Gurjeet Singh, Sunil Kumar, Sanjeev Kumar, Bimal Rai, Alok Srivastava, N. Singh, J.S. Shahi and D. Mehta, , presented in International conference at KMV Jallandhar, Punjab (2010).*
7. EDXRF monitoring of toxic elements in ground water of Malwa region in Punjab, ***Muhanad Alrakabi****, Gurjeet Singh, Atul Bhalla, Sunil Kumar, Sanjeev Kumar, N. Singh, J.S. Shahi and D. Mehta, presented in Symposium on Radiation Physics and nanomaterials (NSRPN-11).*
8. Elemental analysis of rivers, marshes and ground water in Thi Qar region, Iraq, ***Muhanad Alrakabi****, NRC-8, EuCheMS International Conference on Nuclear and Radiochemistry,(2012).*
9. Investigation of uranium contamination in ground water of southwest Punjab using EDXRF technique*,* ***Muhanad Alrakabi****, NRC-8, EuCheMS International Conference on Nuclear and Radiochemistry,(2012).*
10. Radioactive Sources, Iraqi Radioactive Sources Regulatory, Baghdad, Iraq, 2014.
11. Radiation Protection of Radioactive Sources in the Research Uses, Iraqi Radioactive Sources Regulatory , Baghdad, Iraq, 2015.